



Building knowledge

Job Order Contract Construction Task Catalog®

Book 1 CSI Divisions 01 - 50 February 2023

County of San Mateo
Engineering, Construction, Roads and Utilities



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CTC Information:

- ☑ This Construction Task Catalog® was developed and customized by The Gordian Group, Inc. specifically for **County of San Mateo**, priced locally using current labor, material and equipment costs, and published in February 2023.
- ☑ The Gordian Group, Inc. licenses the use of this CTC and other proprietary information and software for the sole purpose of providing Job Order Contracting services to **County of San Mateo**. Use of The Gordian Group's CTC and other proprietary information and software for any other purpose or any other entity is expressly prohibited without the express written consent of The Gordian Group, Inc.

MasterFormat™

- ☑ The tasks in this Construction Task Catalog are organized using CSI's *MasterFormat*.



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The Unit Prices Include:

LABOR COSTS:

- ☑ Labor costs include unloading equipment, materials, and tools, and transporting the same up or down 2 stories and 125' to reach the project site; layout; measuring and cutting to fit; performing the task; disposal of excess material; and time for lunch and breaks.
- ☑ Labor costs include direct labor through the working foreperson level at straight-time prevailing wage rates including fringe benefits and an allowance for Social Security and Medicare taxes, worker's compensation, unemployment insurance and employee benefits.

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- ☑ Labor costs are based on workers familiar with and skilled in the performance of the task following OSHA requirements.

EQUIPMENT COSTS:

- ☑ Equipment costs include all equipment required to accomplish the task.
- ☑ Mobilization is included for all equipment except large equipment (e.g. cranes, pile drivers, bulldozers, excavators, backhoes, bobcats etc.), which exclude mobilization.
- ☑ Equipment costs include all operating expenses such as fuel, electricity, lubricants, etc.

MATERIAL COSTS:

- ☑ Material costs include the cost of the material, delivery, and all incidentals and accessories integral to the installation.
- ☑ Material costs include manufacturer's and/or fabricator's shop drawings.
- ☑ Material costs for roofing, drywall, VCT, carpet, wall covering, ceiling tile, pipe, conduit, concrete, etc. include an allowance for waste. This list is not intended to be all inclusive, but descriptive of the types of construction materials that are typically sold in standard lengths, sizes and weights.

Complete and In-Place Construction:

- ☑ Unit prices are for complete and in-place construction and include all labor, equipment and material required to complete the task as described in the CTC.
- ☑ If the Contractor uses a crane or other lifting equipment (except a truck mounted boom lift or other equipment as part of the delivery process) to lift material onto a roof, even if that roof is less than 2 stories, the contractor will be paid for such crane or lifting equipment as a separate task.

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- ☑ Unit prices for imported materials (e.g. aggregate, sand, soil, etc.) include delivery up to 15 miles from the closest approved source.
- ☑ Unit prices include all fasteners such as anchor bolts, lag bolts, screws, adhesive, wedge anchors, expansion bolts, roofing clips (excluding hurricane clips) that are required. Fasteners listed separately in the CTC are for use with Owner furnished material and equipment or relocating or reinstalling existing material and equipment.
- ☑ Unit prices exclude more substantial mounting material such as threaded rod or angle iron unless the task description states otherwise.
- ☑ Unit prices for doors and windows, duct work, plumbing fixtures, seamless floors, countertops, flashing, pitch pockets, skylights, curbs, roofing, etc. include sealant and caulking.
- ☑ Unit prices include testing, calibration, balancing and the like required to ensure proper installation, construction and performance (e.g. compaction test for backfill, balancing of heating ventilation and air conditioning, pneumatic or hydrostatic testing, soaping of joints, disinfection and flushing, others as required). Use of owner supplied materials, equipment or tying into existing equipment/piping may justify testing, balancing, etc.

Demolition:

- ☑ Unit prices for demolition include all labor, equipment and material required for the complete removal of the items; clean-up of the area; and transporting the demolished items up or down 2 stories into a truck, dumpster, or to an owner designated area, located within 125' of the project site.
- ☑ Unit prices for demolition exclude costs for hauling (See 01741900), dump fees (See 01741900), dumpsters (See 01741900), and trash chutes (See 01741900).
- ☑ If the item being demolished is attached to another item being removed and can be removed as one item, then that item shall not be priced as a

separate demolition task, unless the component alone must be demolished to accomplish the task (e.g. demolition of pipe includes pipe fittings unless the fitting must be demolished separately to accomplish the task; demolition of a wood door includes hinges, hardware, closures, kick plates, etc.).

- ☑ The description "replace" includes the demolition of the existing item and the installation of the new item.
- ☑ The descriptions "remove and relocate" or "remove and reinstall" includes the removal, cleaning of item and installation of the existing item in either the same location or another location.
- ☑ The description "reinstall" includes the cleaning and installation of the existing item.
- ☑ Salvageable materials remain the property of the Owner and shall be turned over as directed when specified in the Job Order.

The Adjustment Factors Include:

BUSINESS COSTS:

- ☑ Overhead costs, including, unless specifically excluded in the Contract Documents, but not limited to;
 - home office overhead
 - insurance, bonds, and indemnification
 - project meetings, training, management and supervision
 - mobilization and close-out for the contract and each Job Order and
 - project office staff and equipment.
- ☑ Profit.
- ☑ Subcontractor's overhead and profit.
- ☑ All taxes for which a waiver is not available including material sales tax and equipment rental.
- ☑ Employee or Subcontractor's wage rates that exceed the prevailing wage rates.

- ☒ Fringe benefits, payroll taxes, worker's compensation, insurance costs and any other payment mandated by law in connection with labor that exceeds the labor rate allowances.
- ☒ Cost of financing the work.
- ☒ Business risks such as the risk of a lower than expected volume of work, smaller than anticipated Job Orders, poor Subcontractor performance, and inflation or material cost fluctuations.

CONSTRUCTION RELATED COSTS:

- ☒ Services required to obtain filings and permits.
- ☒ Preparation and modification of proposals, sketches, drawings, submittals, as-built drawings, CADD drawings, microfilm, and other project records.
- ☒ Incidental engineering and architectural services.
- ☒ Office trailer and portable toilets for Contractor's use.
- ☒ Construction vehicles such as pick-up trucks, utility trucks, vans, flat bed trucks, tractors, trailers, etc.
- ☒ Storage devices or items such as gang boxes and containers for Contractor's tools, equipment and materials.
- ☒ Basic safety and warning signage, minor barricades (e.g., construction tape, etc.) and personnel safety equipment (e.g., hard hats, safety harnesses with lifeline or cabling, protective clothing, safety glasses, face shields, etc.).
- ☒ Meeting Owner security requirements.
- ☒ Excess waste including roofing, drywall, VCT, carpet, wall covering, ceiling tile, pipe, conduit, siding, concrete, etc. This list is not intended to be all inclusive, but descriptive of the types of construction materials that are typically sold in standard lengths, sizes and weights.
- ☒ Removing and returning Owner's furniture and furnishings (e.g. chairs, tables, pictures, etc. but excluding modular furniture, wall or ceiling attached or fastened devices or furnishings, safes or other furniture requiring disassembly).

- ☒ Sealing, windows, and openings with plastic to contain construction dust and debris within the work area.
- ☒ Daily clean-up.
- ☒ Final professional project clean-up.
- ☒ Working in extreme temperatures (below or above normal) or adverse conditions such as excessive rain, wind, sleet or snow.
- ☒ Costs resulting from inadequate supply of building materials, fuel, electricity, or skilled labor.
- ☒ Costs resulting from productivity loss.
- ☒ Differences in project size; complexity and location.
- ☒ All costs for other than discreet items of work specifically required to complete a particular Job Order.

PRICE VARIATIONS:

- ☒ Contractors may find differences in labor, equipment and material costs due to certain economic factors. Variations in labor cost can also result from labor efficiency, labor restrictions, working conditions and local work rules. Variations in material costs can also result from the quantity of material purchased, the existing relationship with suppliers, and because the materials have been discontinued or have become obsolete.
- ☒ While diligent effort is made to provide accurate and reliable up-to-date pricing, it is the responsibility of the Contractor to review and analyze the unit prices, and to calculate their Adjustment Factors accordingly, prior to bidding.

GENERAL COSTS:

- ☒ This list is not exhaustive and is intended to provide general examples of cost items to be included in the Contractor's Adjustment Factor as defined in the Contract.
- ☒ The only compensation to be paid to a Contractor for the unit price tasks will be:

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Published Unit Price	X	Installation (or Demolition) Quantity	X	Appropriate Adjustment Factor

- ☑ No additional payments of any kind whatsoever will be made. All costs not included in the unit prices must be part of the Adjustment Factors.

General Interpretations:

WORKING HEIGHT:

- ☑ Typical working height for work other than masonry is up to 14' above the finished floor or stationary working surface. The Contractor will not be paid for scaffolding, lifts, or similar equipment for work below 14'.
- ☑ Typical working height for masonry work is up to 4' above the finished floor or stationary working surface. The Contractor will not be paid for scaffolding, lifts, or similar equipment for masonry work below 4'.

FIELD ENGINEERING:

- ☑ Surveying tasks shall be used only when the Owner requests the Contractor to perform topographic surveys, property line surveys or to establish horizontal and vertical controls.

ASSEMBLIES:

- ☑ Assembly unit prices take precedence over individual component pricing.

TESTING:

- ☑ Contractor will be paid for testing existing material, as required by the technical specifications and as directed by the Owner (record tests) at the unit price for the appropriate task. The cost of process quality control testing routinely performed by the Contractor is included in the unit prices for the individual tasks.

MISCELLANEOUS:

- ☑ For the purpose of calculating the quantity of a task, quantities are calculated on a per project basis. The quantity so determined shall be used for the task and all appropriate modifiers, unless the task states otherwise.
- ☑ Whenever there are alternative tasks that may be selected to complete work the Contractor shall select the most practical and economical tasks available (e.g. rental of equipment by weeks or months rather than days or painting by roller or spray rather than brush).
- ☑ Restricted Working Space is defined as any area with less than 3' vertical or horizontal clearance and includes areas such as crawl spaces, ceiling plenums where the grid is not removed, narrow piping tunnels, and equipment rooms where the space to install the new work is congested as a result of equipment and piping placement that meet these dimensional restrictions. A Restricted Working Space modifier is available for certain mechanical piping and piping accessories tasks and for certain electrical conduit and conduit accessories tasks. Only those tasks with a modifier for Restricted Working Space are eligible for a price adjustment, and then only if the modifier applies to the contemplated tasks. A non pre-priced task will not be allowed because of Restricted Working Space for any CTC task.
- ☑ Confined Working Space is defined according to the OSHA definition 29 CFR 1926.21(b)(6)(i): "Any space having limited means of egress, which is subject to accumulation of toxic or flammable contaminants or has an oxygen deficient atmosphere, including, but not limited to, storage tanks, process vessels, bins, boilers, ventilation and exhaust duct, sewers, underground vaults, tunnels, pipelines and open top spaces more than 4 feet in depth such as pits and tubs." The Contractor shall conform to all OSHA and Owner requirements for working in Confined Working Spaces. Required ventilation and air monitoring equipment tasks shall be priced from the CTC.
- ☑ Whenever a material, article or piece of equipment is identified in the CTC or in the specifications by reference to manufacturers' or vendors' names,

trade names, catalogue numbers, or make, the identification is intended to establish a standard. Any material, article or equipment of another manufacturer or vendor which performs satisfactorily the duties imposed by the general design may be considered equally acceptable provided that, in the opinion of the Owner, the material, article or equipment so proposed is of equal quality, substance and function. The Contractor shall not provide, furnish or install any proposed material, article or equipment without the prior written approval of the Owner. The burden of proof and all costs related thereto concerning the "or equal" nature of the substitute item, whether approved or disapproved, shall be borne by the Contractor.

SPECIFICATIONS:

- ☒ Specifications for tasks shall be interpreted as follows: All labor, material, equipment, spare parts, services, and work required by a specification shall be considered part of the unit price, unless the task description or technical specifications state otherwise.

Useful Information:

UNIT OF MEASURE DEFINITIONS:

ACR – Acre, **BAG** – Bag, **BBL** – Barrel, **BCY** - Bank (In-place) Cubic Yards, **BF** - Board Foot, **BOX** - Box (each), **BTU** - British Thermal Unit, **C** - One Hundred, **CCF** - One Hundred Cubic Feet, **CCY** - Compacted Cubic Yards, **CF** - Cubic Foot, **CFM** - Cubic Feet Per Minute, **CI** – Cubic Inch, **CLF** - One Hundred Linear Feet, **CSF** - One Hundred Square Feet, **CSY** - Hundred Square Yards, **CWT** - Hundred Weight, **CY** - Cubic Yard, **CYM** - Cubic Yard Mile, **DAY** – Day, **DRM** - Drum (each), **EA** – Each, **FLR** - Floor (Per Floor), **FT** – Foot, **GAL** – Gallon, **GSF** - Ground Square Foot, **HR** – Hour, **HWT** - Hundred Carton Weight, **HYR** – Half Year, **IN** – Inch, **JOB** – Job, **LAN** – Lane, **LB** – Pound, **LCY** -

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Loose (Excavated) Cubic Yards, **LF** - Linear Foot, **LFD** - Linear Feet Per Day, **LIT** – Liter, **LOT** – Lot, **MBF** - One Thousand Board Feet, **MBH** - One Thousand British Thermal Units, **MCF** – One Thousand Cubic Feet, **MF3** - One Thousand Cubic Feet Per Minute, **MGL** – One Thousand Gallons, **MI** – Mile, **MLF** - One Thousand Linear Feet, **MO** – Month, **MSF** - One Thousand Square Feet, **MSY** - One Thousand Square Yards, **MT** – Metric Ton, **MTK** – Metric Ton Kilometer, **M2** – Square Meter, **M3K** – Cubic Meter Kilometer, **NTE** – Note, **OPN** – Opening, **OUT** - Outlet or Output (each), **OZ** – Ounce, **PKG** – Package, **PNT** – Point, **PR** – Pair, **QT** – Quart, **ROL** - Roll (each), **ROM** – Room, **ROW** – Row, **RSR** - Riser (Per Rise), **SEA** – Seat, **SET** – Set, **SF** - Square Foot, **SHT** – Sheet, **SI** - Square Inch, **STP** - Stop (each), **SQ** - Square or One Hundred Square Feet, **SY** - Square Yard, **SYI** – Inches per Square Yard, **TNM** - Tons per Mile, **TON** – Ton, **TRK** – Truck Load, **UI** - United Inch, **UNT** – Unit, **VLF** - Vertical Linear Foot, **WK** – Week, **YD** – Yard, **YR** – Year

MATERIAL WEIGHTS:

EARTHEN MATERIAL

- ☒ The following engineering values for establishing shrink/swell factors shall be used unless otherwise directed by the Owner.

Material	Material Weight (Lbs Per CY)		
	In-place (Bank)	Loose (Excavated Materials)	Compacted
Earth, Common (Average)	3170	2536	3520
Sand	2880	2590	3240
Earth, Rock Mix. (75% E/ 25% R)	3380	2370	3720
Earth, Rock Mix. (50% E/50% R)	3750	2710	4000
Earth, Rock Mix. (25% E/ 75% R)	4120	3140	3680
Gravel (Average)	3280	2730	3570
Limestone	4380	2690	3220
Riprap Rock (Average)	4500	2610	3150
Granite	4540	2640	3170

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Basalt	4950	3020	3640
Clay	3220	2150	3570
Gneiss	4550	2720	3180

1 Ton = 2000 Pounds = 907.185 Kilograms

1 Yard = 3 Feet = 0.9144 Meters

BULK FACTORS FOR DEMOLITION:

- ☒ The following bulk factors shall be used to calculate the volume of demolished material to be transported from the project site.

- **Asphalt** = 1.25
- **Concrete** = 1.40

CONVERSIONS:

1 Acre = 43,560 Square Feet = 4046.8 Square Meters

1 Board Foot = 12" x 12" x 1" = 144 Cubic Inches

1 Centimeter = 0.3937 Inches = 0.0328 Feet

1 Cubic Foot = 0.03704 Cubic Yards = 0.02832 Cubic Meters

1 Cubic Meter = 1.3080 Cubic Yards = 35.3147 Cubic Feet

1 Cubic Yard = 27 Cubic Feet = 0.7646 Cubic Meters

1 Foot = 12 Inches = 0.3048 Meters

1 Inch = 2.54 Centimeters = 0.0254 Meters

1 Kilogram = 2.2046 Pounds

1 Kilometer = 0.6214 Miles = 3280 Feet

1 Meter = 100 Centimeters = 3.2808 Feet

1 Mile = 5280 Feet = 1.6093 Kilometers

1 Pound = 0.4536 Kilograms

1 Square Foot = 144 Square Inches = .0929 Square Meters

1 Square Meter = 1.1960 Square Yards = 10.7639 Square Feet

1 Square Yard = 9 Square Feet = 0.8361 Square Meters

Sheet Metal Thickness (inches)				
Gage No.	Steel Sheet	Galvanized Steel Sheet	Stainless Steel Sheet	Aluminum Sheet
10	.135	.138	.141	
11	.120	.123	.125	
12	.105	.108	.109	
13	.090	.093	.094	.072
14	.075	.079	.078	.064
15	.067	.071	.070	.057
16	.060	.064	.063	.051
17	.054	.058	.056	.045
18	.048	.052	.050	.040
19	.042	.046	.044	.036
20	.036	.040	.038	.032
21	.033	.037	.034	.028
22	.030	.034	.031	.025
23	.027	.031	.028	.023
24	.024	.028	.025	.020
25	.021	.025	.022	.018
26	.018	.022	.019	.017

STANDARD GEOMETRY:

Circle

- Circumference = $2 \pi \text{ radius} = \pi \text{ diameter}$
- Area = $\pi \text{ radius}^2 = \pi (\text{diameter}^2 / 4)$

Cylinder

- Volume = $(\pi \text{ radius}^2) \text{ height}$
- Surface Area = $2 \pi \text{ radius}^2 + (2 \pi \text{ radius}) \text{ height}$

Sphere

- Volume = $(4 \pi \text{ radius}^3) / 3$
- Surface Area = $4 \pi \text{ radius}^2$

$\pi = 3.14159$

United Inch

- The industry standard for measuring windows is the United Inch or UI. The UI is determined by adding the width and the height in inches.

TRADEMARKS

- ☑ Gordian JOC Solution, JOC Complete Solution, JOC Complete Solution Plus, PROGEN, eGordian, ezIQC, Construction Task Catalog, Catalog of Construction Tasks, DMAP, The Standard for Job Order Contracting and 6 Phase Development and Implementation Process are either registered trademarks or trademarks of The Gordian Group, Inc. The names of actual companies and products mentioned herein may be the trademarks of their respective owners

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

01 General Requirements

01 20 Price and Payment Procedures ⁽⁰¹⁾

01 22 Unit Prices ^(01 20)

Note: Provide digital copies of photographs.

01 22 16 Unit Price Payment ^(01 22)

01 22 16 00-0001 Reimbursable Fees ^(01 22 16)

Note: Reimbursable fees include but are not limited to permits, special inspections, special insurance, additional warranties, tolls, expedited shipping costs, etc, which are not included in a task or an Adjustment Factor as explained in the Contract or The Construction Task Catalog®.

01 22 16 00-0002	EA	Reimbursable Fees.....	1.00
Note: Reimbursable Fees will be paid to the contractor for eligible costs as directed by Owner. Insert the appropriate quantity to adjust the base cost to the actual Reimbursable Fee. If there are multiple Reimbursable Fees, list each one separately and add a comment in the "note" block to identify the Reimbursable Fee (e.g. sidewalk closure, road cut, various permits, extended warranty, expedited shipping costs, etc.). A copy of each receipt, invoice, or proof of payment shall be submitted with the Price Proposal.			

01 22 20 Wage Rates ^(01 22)

01 22 20 00-0001 Local Labor/Wage Rates ^(01 22 20)

Note: Welders receive the rate prescribed for the craft performing the operation to which the welding is incidental.

01 22 20 00-0002	HR	Asbestos Removal Worker	69.58
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
		For Foreperson, Add	3.48
		For Apprentice, Deduct	-13.92
01 22 20 00-0003	HR	Insulator	137.71
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
		For Foreperson, Add	6.89
		For Apprentice, Deduct	-27.54
01 22 20 00-0004	HR	Boilermaker	107.64
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
		For Foreperson, Add	5.38
		For Apprentice, Deduct	-21.53
01 22 20 00-0005	HR	Brick Layer	105.31
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
		For Foreperson, Add	5.27
		For Apprentice, Deduct	-21.06
01 22 20 00-0006	HR	Carpenter	119.46
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
		For Foreperson, Add	5.97
		For Apprentice, Deduct	-23.89
01 22 20 00-0007	HR	Carpet, Linoleum	116.50
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
		For Foreperson, Add	5.83
		For Apprentice, Deduct	-23.30
01 22 20 00-0008	HR	Cement Mason	86.59
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
		For Foreperson, Add	4.33
		For Apprentice, Deduct	-17.32
01 22 20 00-0009	HR	Drywall Finisher	115.14
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
		For Foreperson, Add	5.76
		For Apprentice, Deduct	-23.03
01 22 20 00-0010	HR	Electrician	147.48
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
		For Foreperson, Add	7.37
		For Apprentice, Deduct	-29.50
01 22 20 00-0011	HR	Equipment Operator, Crane (Group 1-A)	110.43
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
01 22 20 00-0012	HR	Equipment Operator, Crane (Group 2-A)	108.06
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
		For Foreperson, Add	5.40
		For Apprentice, Deduct	-21.61
01 22 20 00-0013	HR	Equipment Operator, Crane (Group 3-A)	105.76
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
01 22 20 00-0014	HR	Equipment Operator, Medium (Group 3)	105.24
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
		For Foreperson, Add	5.26
		For Apprentice, Deduct	-21.05
01 22 20 00-0015	HR	Equipment Operator, Medium (Group 4)	103.37
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
01 22 20 00-0016	HR	Equipment Operator, Medium (Group 5)	101.67
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
01 22 20 00-0017	HR	Equipment Operator, Light (Group 6)	99.89
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			
		For Foreperson, Add	4.99
		For Apprentice, Deduct	-19.98
01 22 20 00-0018	HR	Equipment Operator, Light (Group 7)	98.36
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.			

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0019	HR	Equipment Operator, Light (Group 8) Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	96.84	
01 22 20 00-0020	HR	Glazier Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	113.33	
		For Foreperson, Add	5.67	
		For Apprentice, Deduct	-22.67	
01 22 20 00-0021	HR	Laborer Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	85.17	
01 22 20 00-0022	HR	Lather Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	112.30	
		For Foreperson, Add	5.62	
		For Apprentice, Deduct	-22.46	
01 22 20 00-0023	HR	Marble Setter Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	113.13	
		For Foreperson, Add	5.66	
		For Apprentice, Deduct	-22.63	
01 22 20 00-0024	HR	Millwright Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	111.92	
		For Foreperson, Add	5.60	
		For Apprentice, Deduct	-22.38	
01 22 20 00-0025	HR	Mold Removal Worker Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	84.56	
		For Foreperson, Add	4.23	
		For Apprentice, Deduct	-16.91	
01 22 20 00-0026	HR	Painter, Ordinary Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	97.02	
		For Foreperson, Add	4.85	
		For Apprentice, Deduct	-19.40	
01 22 20 00-0027	HR	Painter, Structural Steel Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	100.39	
		For Foreperson, Add	5.02	
		For Apprentice, Deduct	-20.08	
01 22 20 00-0028	HR	Paperhanger Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	97.02	
		For Foreperson, Add	4.85	
		For Apprentice, Deduct	-19.40	
01 22 20 00-0029	HR	Pile Drivers Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	125.26	
		For Foreperson, Add	6.26	
		For Apprentice, Deduct	-25.05	
01 22 20 00-0030	HR	Plasterer Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	105.60	
		For Foreperson, Add	5.28	
		For Apprentice, Deduct	-21.12	
01 22 20 00-0031	HR	Plumber Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	146.48	
		For Foreperson, Add	7.32	
		For Apprentice, Deduct	-29.30	
01 22 20 00-0032	HR	Powderman Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	89.74	
		For Foreperson, Add	4.49	
		For Apprentice, Deduct	-17.95	
01 22 20 00-0033	HR	Rodman (Reinforcing)/Ornamental Steel Worker Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	104.12	
		For Foreperson, Add	5.21	
		For Apprentice, Deduct	-20.82	
01 22 20 00-0034	HR	Roofer, Composite Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	111.51	
		For Foreperson, Add	5.58	
		For Apprentice, Deduct	-22.30	
01 22 20 00-0035	HR	Roofer, Tile/Slate Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	107.90	
		For Foreperson, Add	5.40	
		For Apprentice, Deduct	-21.58	
01 22 20 00-0036	HR	Sheet Metal Worker Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	145.70	
		For Foreperson, Add	7.29	
		For Apprentice, Deduct	-29.14	
01 22 20 00-0037	HR	Sprinkler Installer Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	137.68	
		For Foreperson, Add	6.88	
		For Apprentice, Deduct	-27.54	
01 22 20 00-0038	HR	Steam / Pipe Fitter Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	146.48	
		For Foreperson, Add	7.32	
		For Apprentice, Deduct	-29.30	
01 22 20 00-0039	HR	Stone Mason Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	105.31	
		For Foreperson, Add	5.27	
		For Apprentice, Deduct	-21.06	
01 22 20 00-0040	HR	Iron Worker (Structural) Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	107.64	
		For Foreperson, Add	5.38	
		For Apprentice, Deduct	-21.53	



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01 22 20 00-0041	HR	Tile Layer..... Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. For Foreperson, Add For Apprentice, Deduct	96.91 4.85 -19.38	
01 22 20 00-0042	HR	Terrazzo Worker..... Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. For Foreperson, Add For Apprentice, Deduct	106.39 5.32 -21.28	
01 22 20 00-0043	HR	Truck Driver, Light (Group 1)..... Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. For Foreperson, Add For Apprentice, Deduct	84.78 4.24 -16.96	
01 22 20 00-0044	HR	Truck Driver, Medium (Group 2)..... Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	85.21	
01 22 20 00-0045	HR	Truck Driver, Heavy (Group 3)..... Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. For Foreperson, Add For Apprentice, Deduct	85.64 4.28 -17.13	
01 22 20 00-0046	HR	Truck Driver, Heavy (Group 4)..... Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	86.08	
01 22 20 00-0047	HR	Class I Diver..... Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	207.47	
01 22 20 00-0048	HR	Class III Diver Tender..... Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	136.26	
01 22 20 00-0049	HR	D1 Certified Welder..... Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	111.64	
01 22 20 00-0050		Rates For Services (01 22 20)		
01 22 20 00-0051	HR	Watch/Guard Person, Unarmed.....	35.33	
01 22 20 00-0052	HR	Watch/Guard Person, Armed.....	44.36	
01 22 20 00-0053	HR	Surveyor (Rod Person).....	105.73	
01 22 20 00-0054	HR	Senior Surveyor (Party Chief).....	116.08	
01 22 20 00-0055	HR	Surveyor (Instrument person).....	110.12	
01 22 20 00-0056	HR	On-Site Certified Materials Testing Technician.....	82.92	
01 22 20 00-0057	HR	Certified Industrial Hygienist.....	133.60	
01 22 20 00-0058	MI	Mileage For Professional Services (Engineering, Surveying, Etcetera)..... Note: For use only when the Owner directs the contractor to use personnel whose base of operations is more than 100 miles from the site. Quantity shall be miles that exceed 100.	0.66	
01 22 20 00-0059	HR	Fire Watch Laborer..... Note: Fire watchers shall be required whenever welding or cutting is performed in locations where other than a minor fire might develop, or any of the following conditions exist: (1) Appreciable combustible material, in building construction or contents, closer than 35 feet (10.7 m) to the point of operation. (2) Appreciable combustibles are more than 35 feet (10.7 m) away but are easily ignited by sparks. (3) Wall or floor openings within a 35-foot (10.7 m) radius expose combustible material in adjacent areas including concealed spaces in walls or floors. (4) Combustible materials are adjacent to the opposite side of metal partitions, walls, ceilings, or roofs and are likely to be ignited by conduction or radiation.	85.17	
01 22 20 00-0060		Rates For Project Management Services (01 22 20)		
01 22 20 00-0061	HR	Project Manager.....	161.25	
01 22 20 00-0062		Rates For Architectural And Engineering Services (01 22 20) Note: For preparation of contract documents, structural and/or design drawings, special investigating requirements or services outside required architectural and engineering services.		
01 22 20 00-0063	HR	Principal Architect.....	225.00	
01 22 20 00-0064	HR	Senior Architect.....	200.00	
01 22 20 00-0065	HR	Architect.....	150.00	
01 22 20 00-0066	HR	Principal Engineer.....	222.50	
01 22 20 00-0067	HR	Senior Engineer.....	172.50	
01 22 20 00-0068	HR	Engineer.....	135.00	
01 22 20 00-0069	HR	Draft Person.....	80.00	
01 22 20 00-0070		Rates For Traffic Control (01 22 20)		
01 22 20 00-0071	DAY	Pilot Vehicle With Driver..... Note: Includes radio, "Follow Me" sign, "Wait For Pilot Car" signs on barricades where required.	996.88	
01 22 20 00-0072	HR	Flagperson For Traffic Control.....	80.60	
01 22 20 00-0073		Mobilize Equipment (01 22 20)		
01 22 20 00-0074	HR	Escort Vehicle With Driver.....	91.83	
01 22 20 00-0075	HR	Transport Vehicle With Driver.....	131.23	
01 22 23		Equipment Usage (01 22) Note: Includes fuel costs unless otherwise stated. These tasks shall be used for owned, leased or rented equipment. See CSI section 01 22 20 00-0070 for traffic control (where required), 01 71 13 00-0000 for equipment delivery, pickup, mobilization and demobilization.		
01 22 23 00-0001		Aerial Equipment (01 22 23)		

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MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0002	Man Lifts (01 22 23 00-0001) Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-0003	Telescoping Boom Man Lifts With Platform (01 22 23 00-0002)		
01 22 23 00-0004	Engine Powered, Telescoping Boom Man Lifts With Platform (01 22 23 00-0003) Note: Diesel or dual fuel (gasoline or liquid propane gas). Two-wheel drive. For use on unpaved or paved surfaces.		
01 22 23 00-0005	DAY 40' Engine Powered, Telescoping Boom Man Lift With Platform	459.70	
	For Four-Wheel Drive, Add	103.43	
01 22 23 00-0006	WK 40' Engine Powered, Telescoping Boom Man Lift With Platform	1,156.66	
	For Four-Wheel Drive, Add	260.25	
01 22 23 00-0007	MO 40' Engine Powered, Telescoping Boom Man Lift With Platform	2,595.08	
	For Four-Wheel Drive, Add	583.89	
01 22 23 00-0008	DAY 60' Engine Powered, Telescoping Boom Man Lift With Platform	674.72	
	For Four-Wheel Drive, Add	151.81	
01 22 23 00-0009	WK 60' Engine Powered, Telescoping Boom Man Lift With Platform	1,608.95	
	For Four-Wheel Drive, Add	362.01	
01 22 23 00-0010	MO 60' Engine Powered, Telescoping Boom Man Lift With Platform	3,521.89	
	For Four-Wheel Drive, Add	792.43	
01 22 23 00-0011	DAY 80' Engine Powered, Telescoping Boom Man Lift With Platform	1,312.37	
	For Four-Wheel Drive, Add	295.28	
01 22 23 00-0012	WK 80' Engine Powered, Telescoping Boom Man Lift With Platform	3,180.82	
	For Four-Wheel Drive, Add	715.68	
01 22 23 00-0013	MO 80' Engine Powered, Telescoping Boom Man Lift With Platform	6,673.05	
	For Four-Wheel Drive, Add	1,501.44	
01 22 23 00-0014	DAY 110' Engine Powered, Telescoping Boom Man Lift With Platform	1,868.45	
	For Four-Wheel Drive, Add	420.40	
01 22 23 00-0015	WK 110' Engine Powered, Telescoping Boom Man Lift With Platform	4,499.12	
	For Four-Wheel Drive, Add	1,012.30	
01 22 23 00-0016	MO 110' Engine Powered, Telescoping Boom Man Lift With Platform	11,210.72	
	For Four-Wheel Drive, Add	2,522.41	
01 22 23 00-0017	DAY 120' Engine Powered, Telescoping Boom Man Lift With Platform	2,276.25	
	For Four-Wheel Drive, Add	512.16	
01 22 23 00-0018	WK 120' Engine Powered, Telescoping Boom Man Lift With Platform	5,805.55	
	For Four-Wheel Drive, Add	1,306.25	
01 22 23 00-0019	MO 120' Engine Powered, Telescoping Boom Man Lift With Platform	13,197.81	
	For Four-Wheel Drive, Add	2,969.51	
01 22 23 00-0020	Articulating (Up/Over) Boom Man Lifts With Platform (01 22 23 00-0002)		
01 22 23 00-0021	Engine Powered, Articulating (Up/Over) Boom Man Lifts With Platform (01 22 23 00-0020) Note: Diesel or dual fuel (gasoline or liquid propane gas). Four-wheel drive. For use on unpaved or paved surfaces.		
01 22 23 00-0022	DAY 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	410.16	
01 22 23 00-0023	WK 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	1,029.14	
01 22 23 00-0024	MO 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	2,475.89	
01 22 23 00-0025	DAY 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	522.02	
01 22 23 00-0026	WK 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	1,141.00	
01 22 23 00-0027	MO 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	2,832.36	
01 22 23 00-0028	DAY 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	671.18	
01 22 23 00-0029	WK 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	1,551.16	
01 22 23 00-0030	MO 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	3,467.74	
01 22 23 00-0031	DAY 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	1,170.83	
01 22 23 00-0032	WK 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	2,759.28	
01 22 23 00-0033	MO 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	6,710.26	
01 22 23 00-0034	DAY 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	2,274.54	
01 22 23 00-0035	WK 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	5,369.40	
01 22 23 00-0036	MO 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	13,125.20	
01 22 23 00-0037	Electric, Articulating (Up/Over) Boom Man Lifts With Platform (01 22 23 00-0020) Note: For use on paved surfaces.		
01 22 23 00-0038	DAY 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform	410.16	
01 22 23 00-0039	WK 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform	1,029.14	
01 22 23 00-0040	MO 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform	2,475.89	
01 22 23 00-0041	DAY 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform	410.16	
01 22 23 00-0042	WK 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform	1,029.14	
01 22 23 00-0043	MO 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform	2,475.89	
01 22 23 00-0044	DAY 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform	507.11	
01 22 23 00-0045	WK 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform	1,096.25	
01 22 23 00-0046	MO 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform	2,721.99	
01 22 23 00-0047	DAY 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform	507.11	
01 22 23 00-0048	WK 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform	1,096.25	
01 22 23 00-0049	MO 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform	2,721.99	
01 22 23 00-0050	Platform Lifts (01 22 23 00-0001) Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-0051	Electric, Scissor Platform Lifts (01 22 23 00-0050) Note: For use on paved surfaces.		



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01 22 23 00-0052 DAY 17' Electric, Scissor Platform Lift	170.50	
01 22 23 00-0053 WK 17' Electric, Scissor Platform Lift	341.00	
01 22 23 00-0054 MO 17' Electric, Scissor Platform Lift	697.50	
01 22 23 00-0055 DAY 20' Electric, Scissor Platform Lift	186.00	
01 22 23 00-0056 WK 20' Electric, Scissor Platform Lift	372.00	
01 22 23 00-0057 MO 20' Electric, Scissor Platform Lift	744.00	
01 22 23 00-0058 DAY 25' Electric, Scissor Platform Lift	240.25	
01 22 23 00-0059 WK 25' Electric, Scissor Platform Lift	480.50	
01 22 23 00-0060 MO 25' Electric, Scissor Platform Lift	1,030.75	
01 22 23 00-0061 DAY 30' Electric, Scissor Platform Lift	310.00	
01 22 23 00-0062 WK 30' Electric, Scissor Platform Lift	612.25	
01 22 23 00-0063 MO 30' Electric, Scissor Platform Lift	1,356.25	
01 22 23 00-0064 DAY 33' Electric, Scissor Platform Lift	333.25	
01 22 23 00-0065 WK 33' Electric, Scissor Platform Lift	651.00	
01 22 23 00-0066 MO 33' Electric, Scissor Platform Lift	1,472.50	
01 22 23 00-0067 DAY 40' Electric, Scissor Platform Lift	434.00	
01 22 23 00-0068 WK 40' Electric, Scissor Platform Lift	1,077.25	
01 22 23 00-0069 MO 40' Electric, Scissor Platform Lift	2,999.25	
01 22 23 00-0070 Engine Powered, Scissor Platform Lifts (01 22 23 00-0050)		
Note: Diesel or dual fuel (gasoline or liquid propane gas). Two-wheel drive. For use on unpaved or paved surfaces.		
01 22 23 00-0071 DAY 25' Engine Powered, Scissor Platform Lift	431.82	
For Four-Wheel Drive, Add	86.36	
01 22 23 00-0072 WK 25' Engine Powered, Scissor Platform Lift	844.45	
For Four-Wheel Drive, Add	168.89	
01 22 23 00-0073 MO 25' Engine Powered, Scissor Platform Lift	2,063.14	
For Four-Wheel Drive, Add	412.63	
01 22 23 00-0074 DAY 33' Engine Powered, Scissor Platform Lift	441.42	
For Four-Wheel Drive, Add	88.28	
01 22 23 00-0075 WK 33' Engine Powered, Scissor Platform Lift	1,007.58	
For Four-Wheel Drive, Add	201.52	
01 22 23 00-0076 MO 33' Engine Powered, Scissor Platform Lift	2,207.08	
For Four-Wheel Drive, Add	441.42	
01 22 23 00-0077 DAY 40' Engine Powered, Scissor Platform Lift	489.40	
For Four-Wheel Drive, Add	97.88	
01 22 23 00-0078 WK 40' Engine Powered, Scissor Platform Lift	1,122.73	
For Four-Wheel Drive, Add	224.55	
01 22 23 00-0079 MO 40' Engine Powered, Scissor Platform Lift	2,494.96	
For Four-Wheel Drive, Add	498.99	
01 22 23 00-0080 DAY 43' Engine Powered, Scissor Platform Lift	518.18	
For Four-Wheel Drive, Add	103.64	
01 22 23 00-0081 WK 43' Engine Powered, Scissor Platform Lift	1,209.10	
For Four-Wheel Drive, Add	241.82	
01 22 23 00-0082 MO 43' Engine Powered, Scissor Platform Lift	2,974.76	
For Four-Wheel Drive, Add	594.95	
01 22 23 00-0083 DAY 50' Engine Powered, Scissor Platform Lift	969.20	
For Four-Wheel Drive, Add	193.84	
01 22 23 00-0084 WK 50' Engine Powered, Scissor Platform Lift	2,130.31	
For Four-Wheel Drive, Add	426.06	
01 22 23 00-0085 MO 50' Engine Powered, Scissor Platform Lift	5,239.42	
For Four-Wheel Drive, Add	1,047.88	
01 22 23 00-0086 Personnel Lifts (01 22 23 00-0001)		
Note: Includes delivery to job site and pick-up when complete. Excludes operator. For use on paved surfaces.		
01 22 23 00-0087 DAY 24', Push-Type, Electric Single Man Personnel Lift	164.90	
01 22 23 00-0088 WK 24', Push-Type, Electric Single Man Personnel Lift	467.21	
01 22 23 00-0089 MO 24', Push-Type, Electric Single Man Personnel Lift	943.58	
01 22 23 00-0090 DAY 30', Push-Type, Electric Single Man Personnel Lift	229.02	
01 22 23 00-0091 WK 30', Push-Type, Electric Single Man Personnel Lift	485.53	
01 22 23 00-0092 MO 30', Push-Type, Electric Single Man Personnel Lift	1,648.98	
01 22 23 00-0093 DAY 36', Push-Type, Electric Single Man Personnel Lift	384.76	
01 22 23 00-0094 WK 36', Push-Type, Electric Single Man Personnel Lift	934.42	
01 22 23 00-0095 MO 36', Push-Type, Electric Single Man Personnel Lift	2,729.98	
01 22 23 00-0096 DAY 40', Push-Type, Electric Single Man Personnel Lift	412.24	
01 22 23 00-0097 WK 40', Push-Type, Electric Single Man Personnel Lift	1,026.03	
01 22 23 00-0098 MO 40', Push-Type, Electric Single Man Personnel Lift	3,087.26	
01 22 23 00-0099 DAY 15', Self-Propelled, Electric Single Man Personnel Lift	219.86	
01 22 23 00-0100 WK 15', Self-Propelled, Electric Single Man Personnel Lift	439.73	
01 22 23 00-0101 MO 15', Self-Propelled, Electric Single Man Personnel Lift	879.46	
01 22 23 00-0102 DAY 20', Self-Propelled, Electric Single Man Personnel Lift	219.86	
01 22 23 00-0103 WK 20', Self-Propelled, Electric Single Man Personnel Lift	439.73	
01 22 23 00-0104 MO 20', Self-Propelled, Electric Single Man Personnel Lift	914.27	
01 22 23 00-0105 Bucket Trucks (01 22 23 00-0001)		
Note: Includes full-time operator, delivery, and removal.		
01 22 23 00-0106 DAY 29' Bucket Truck With Full-Time Operator	1,269.48	
For Equipment Without Operator, Deduct	-685.10	
01 22 23 00-0107 WK 29' Bucket Truck With Full-Time Operator	5,178.64	
For Equipment Without Operator, Deduct	-3,425.52	

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01 22 23 00-0108	MO	29' Bucket Truck With Full-Time Operator	19,306.40	
		<i>For Equipment Without Operator, Deduct</i>	-14,843.90	
01 22 23 00-0109	DAY	38' Bucket Truck With Full-Time Operator	1,343.85	
		<i>For Equipment Without Operator, Deduct</i>	-685.10	
01 22 23 00-0110	WK	38' Bucket Truck With Full-Time Operator	5,417.71	
		<i>For Equipment Without Operator, Deduct</i>	-3,425.52	
01 22 23 00-0111	MO	38' Bucket Truck With Full-Time Operator	19,943.90	
		<i>For Equipment Without Operator, Deduct</i>	-14,843.90	
01 22 23 00-0112	DAY	48' Bucket Truck With Full-Time Operator	1,535.10	
		<i>For Equipment Without Operator, Deduct</i>	-685.10	
01 22 23 00-0113	WK	48' Bucket Truck With Full-Time Operator	5,763.02	
		<i>For Equipment Without Operator, Deduct</i>	-3,425.52	
01 22 23 00-0114	MO	48' Bucket Truck With Full-Time Operator	20,687.65	
		<i>For Equipment Without Operator, Deduct</i>	-14,843.90	
01 22 23 00-0115	DAY	62' Bucket Truck With Full-Time Operator	1,960.10	
		<i>For Equipment Without Operator, Deduct</i>	-685.10	
01 22 23 00-0116	WK	62' Bucket Truck With Full-Time Operator	7,144.27	
		<i>For Equipment Without Operator, Deduct</i>	-3,425.52	
01 22 23 00-0117	MO	62' Bucket Truck With Full-Time Operator	24,406.40	
		<i>For Equipment Without Operator, Deduct</i>	-14,843.90	
01 22 23 00-0118	DAY	85' Bucket Truck With Full-Time Operator	2,172.60	
		<i>For Equipment Without Operator, Deduct</i>	-685.10	
01 22 23 00-0119	WK	85' Bucket Truck With Full-Time Operator	7,888.02	
		<i>For Equipment Without Operator, Deduct</i>	-3,425.52	
01 22 23 00-0120	MO	85' Bucket Truck With Full-Time Operator	27,062.65	
		<i>For Equipment Without Operator, Deduct</i>	-14,843.90	
01 22 23 00-0121		Air Equipment (01 22 23)		
01 22 23 00-0122		Air Compressors (01 22 23 00-0121)		
		Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0123	DAY	100 CFM Diesel Powered Portable Air Compressor	168.27	
01 22 23 00-0124	WK	100 CFM Diesel Powered Portable Air Compressor	504.81	
01 22 23 00-0125	MO	100 CFM Diesel Powered Portable Air Compressor	1,402.25	
01 22 23 00-0126	DAY	130 CFM Diesel Powered Portable Air Compressor	201.92	
01 22 23 00-0127	WK	130 CFM Diesel Powered Portable Air Compressor	594.55	
01 22 23 00-0128	MO	130 CFM Diesel Powered Portable Air Compressor	1,682.70	
01 22 23 00-0129	DAY	185 CFM Diesel Powered Portable Air Compressor	269.23	
01 22 23 00-0130	WK	185 CFM Diesel Powered Portable Air Compressor	605.77	
01 22 23 00-0131	MO	185 CFM Diesel Powered Portable Air Compressor	1,334.94	
01 22 23 00-0132	DAY	375 CFM Diesel Powered Portable Air Compressor	381.41	
01 22 23 00-0133	WK	375 CFM Diesel Powered Portable Air Compressor	964.75	
01 22 23 00-0134	MO	375 CFM Diesel Powered Portable Air Compressor	2,299.69	
01 22 23 00-0135	DAY	600 CFM Diesel Powered Portable Air Compressor	848.08	
01 22 23 00-0136	WK	600 CFM Diesel Powered Portable Air Compressor	2,041.68	
01 22 23 00-0137	MO	600 CFM Diesel Powered Portable Air Compressor	5,088.48	
01 22 23 00-0138	DAY	750 CFM Diesel Powered Portable Air Compressor	1,020.84	
01 22 23 00-0139	WK	750 CFM Diesel Powered Portable Air Compressor	2,512.83	
01 22 23 00-0140	MO	750 CFM Diesel Powered Portable Air Compressor	6,169.90	
01 22 23 00-0141	DAY	825 CFM Diesel Powered Portable Air Compressor	1,020.84	
01 22 23 00-0142	WK	825 CFM Diesel Powered Portable Air Compressor	2,512.83	
01 22 23 00-0143	MO	825 CFM Diesel Powered Portable Air Compressor	6,169.90	
01 22 23 00-0144	DAY	1,300 CFM Diesel Powered Portable Air Compressor	1,189.11	
01 22 23 00-0145	WK	1,300 CFM Diesel Powered Portable Air Compressor	2,665.40	
01 22 23 00-0146	MO	1,300 CFM Diesel Powered Portable Air Compressor	7,107.72	
01 22 23 00-0147	DAY	1,600 CFM Diesel Powered Portable Air Compressor	1,480.78	
01 22 23 00-0148	WK	1,600 CFM Diesel Powered Portable Air Compressor	3,331.75	
01 22 23 00-0149	MO	1,600 CFM Diesel Powered Portable Air Compressor	8,884.66	
01 22 23 00-0150		Compaction And Paving Equipment (01 22 23)		
01 22 23 00-0151		Pavers And Rollers (01 22 23 00-0150)		
		Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0152		Pavers (01 22 23 00-0151)		
01 22 23 00-0153	DAY	8' Wide Paving Machine With Full-Time Operator	3,464.52	
		<i>For Equipment Without Operator, Deduct</i>	-841.89	
01 22 23 00-0154	WK	8' Wide Paving Machine With Full-Time Operator	16,011.27	
		<i>For Equipment Without Operator, Deduct</i>	-4,209.45	
01 22 23 00-0155	MO	8' Wide Paving Machine With Full-Time Operator	60,391.03	
		<i>For Equipment Without Operator, Deduct</i>	-18,240.96	
01 22 23 00-0156	DAY	10' Wide Paving Machine With Full-Time Operator	4,120.17	
		<i>For Equipment Without Operator, Deduct</i>	-841.89	
01 22 23 00-0157	WK	10' Wide Paving Machine With Full-Time Operator	17,322.58	
		<i>For Equipment Without Operator, Deduct</i>	-4,209.45	
01 22 23 00-0158	MO	10' Wide Paving Machine With Full-Time Operator	65,074.37	
		<i>For Equipment Without Operator, Deduct</i>	-18,240.96	
01 22 23 00-0159		Ride-On Self-Propelled, Rubber Tire Rollers (01 22 23 00-0151)		



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0160	DAY	10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	1,247.73	
		<i>For Equipment Without Operator, Deduct</i>	-841.89	
01 22 23 00-0161	WK	10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	5,436.94	
		<i>For Equipment Without Operator, Deduct</i>	-4,209.45	
01 22 23 00-0162	MO	10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	21,573.12	
		<i>For Equipment Without Operator, Deduct</i>	-18,240.96	
01 22 23 00-0163	DAY	15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	1,404.37	
		<i>For Equipment Without Operator, Deduct</i>	-841.89	
01 22 23 00-0164	WK	15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	6,601.77	
		<i>For Equipment Without Operator, Deduct</i>	-4,209.45	
01 22 23 00-0165	MO	15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	23,331.76	
		<i>For Equipment Without Operator, Deduct</i>	-18,240.96	
01 22 23 00-0166	DAY	30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator	1,411.49	
		<i>For Equipment Without Operator, Deduct</i>	-841.89	
01 22 23 00-0167	WK	30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator	6,138.97	
		<i>For Equipment Without Operator, Deduct</i>	-4,209.45	
01 22 23 00-0168	MO	30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator	23,673.52	
		<i>For Equipment Without Operator, Deduct</i>	-18,240.96	
01 22 23 00-0169 Ride-On Self-Propelled, Padfoot Rollers (01 22 23 00-0151)				
01 22 23 00-0170	DAY	5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,311.81	
		<i>For Equipment Without Operator, Deduct</i>	-841.89	
01 22 23 00-0171	WK	5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,512.41	
		<i>For Equipment Without Operator, Deduct</i>	-4,209.45	
01 22 23 00-0172	MO	5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	22,007.44	
		<i>For Equipment Without Operator, Deduct</i>	-18,240.96	
01 22 23 00-0173	DAY	8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,610.85	
		<i>For Equipment Without Operator, Deduct</i>	-841.89	
01 22 23 00-0174	WK	8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	6,117.61	
		<i>For Equipment Without Operator, Deduct</i>	-4,209.45	
01 22 23 00-0175	MO	8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	23,915.60	
		<i>For Equipment Without Operator, Deduct</i>	-18,240.96	
01 22 23 00-0176	DAY	10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,682.05	
		<i>For Equipment Without Operator, Deduct</i>	-841.89	
01 22 23 00-0177	WK	10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	6,566.17	
		<i>For Equipment Without Operator, Deduct</i>	-4,209.45	
01 22 23 00-0178	MO	10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	25,168.72	
		<i>For Equipment Without Operator, Deduct</i>	-18,240.96	
01 22 23 00-0179 Towed, Padfoot Rollers (01 22 23 00-0151)				
01 22 23 00-0180	DAY	48" Wide, 40" Diameter, Towed Padfoot Roller	135.28	
01 22 23 00-0181	WK	48" Wide, 40" Diameter, Towed Padfoot Roller	391.60	
01 22 23 00-0182	MO	48" Wide, 40" Diameter, Towed Padfoot Roller	1,153.44	
01 22 23 00-0183	DAY	60" Wide, 60" Diameter, Towed Padfoot Roller	170.88	
01 22 23 00-0184	WK	60" Wide, 60" Diameter, Towed Padfoot Roller	477.04	
01 22 23 00-0185	MO	60" Wide, 60" Diameter, Towed Padfoot Roller	2,029.20	
01 22 23 00-0186 Static Rollers (01 22 23 00-0151)				
01 22 23 00-0187	DAY	5 Ton, 2 Drum Articulated Roller With Full-Time Operator	1,347.41	
		<i>For Equipment Without Operator, Deduct</i>	-841.89	
01 22 23 00-0188	WK	5 Ton, 2 Drum Articulated Roller With Full-Time Operator	5,818.57	
		<i>For Equipment Without Operator, Deduct</i>	-4,209.45	
01 22 23 00-0189	MO	5 Ton, 2 Drum Articulated Roller With Full-Time Operator	23,011.36	
		<i>For Equipment Without Operator, Deduct</i>	-18,240.96	
01 22 23 00-0190	DAY	8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator	1,504.05	
		<i>For Equipment Without Operator, Deduct</i>	-841.89	
01 22 23 00-0191	WK	8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator	6,245.77	
		<i>For Equipment Without Operator, Deduct</i>	-4,209.45	
01 22 23 00-0192	MO	8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator	24,193.28	
		<i>For Equipment Without Operator, Deduct</i>	-18,240.96	
01 22 23 00-0193 Ride-On Self-Propelled, Smooth Drum Vibratory Rollers (01 22 23 00-0151)				
01 22 23 00-0194	DAY	1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,119.57	
		<i>For Equipment Without Operator, Deduct</i>	-841.89	
01 22 23 00-0195	WK	1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,021.13	
		<i>For Equipment Without Operator, Deduct</i>	-4,209.45	
01 22 23 00-0196	MO	1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	20,376.96	
		<i>For Equipment Without Operator, Deduct</i>	-18,240.96	
01 22 23 00-0197	DAY	3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,226.37	
		<i>For Equipment Without Operator, Deduct</i>	-841.89	
01 22 23 00-0198	WK	3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,341.53	
		<i>For Equipment Without Operator, Deduct</i>	-4,209.45	
01 22 23 00-0199	MO	3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	21,231.36	
		<i>For Equipment Without Operator, Deduct</i>	-18,240.96	
01 22 23 00-0200	DAY	5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,297.57	
		<i>For Equipment Without Operator, Deduct</i>	-841.89	
01 22 23 00-0201	WK	5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,555.13	
		<i>For Equipment Without Operator, Deduct</i>	-4,209.45	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0202 MO 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	21,800.96 -18,240.96	
01 22 23 00-0203 DAY 8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,390.13 -841.89	
01 22 23 00-0204 WK 8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,825.69 -4,209.45	
01 22 23 00-0205 MO 8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	22,505.84 -18,240.96	
01 22 23 00-0206 DAY 11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,575.25 -841.89	
01 22 23 00-0207 WK 11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,366.81 -4,209.45	
01 22 23 00-0208 MO 11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	23,936.96 -18,240.96	
01 22 23 00-0209 Steel Roadway Plates (01 22 23 00-0150) Note: 3 day minimum. Excludes delivery. See CSI section 01 71 13 00-0001 for material delivery on truck.		
01 22 23 00-0210 EA Placement And Removal Of Steel Roadway Plates.....	54.22	
01 22 23 00-0211 DAY 1" x 4' x 8' Steel Plate	38.04	
01 22 23 00-0212 WK 1" x 4' x 8' Steel Plate	89.83	
01 22 23 00-0213 MO 1" x 4' x 8' Steel Plate	118.21	
01 22 23 00-0214 DAY 1" x 4' x 10' Steel Plate	50.73	
01 22 23 00-0215 WK 1" x 4' x 10' Steel Plate	114.13	
01 22 23 00-0216 MO 1" x 4' x 10' Steel Plate	139.50	
01 22 23 00-0217 DAY 1" x 5' x 10' Steel Plate	52.84	
01 22 23 00-0218 WK 1" x 5' x 10' Steel Plate	119.42	
01 22 23 00-0219 MO 1" x 5' x 10' Steel Plate	317.04	
01 22 23 00-0220 DAY 1" x 6' x 8' Steel Plate	33.82	
01 22 23 00-0221 WK 1" x 6' x 8' Steel Plate	76.09	
01 22 23 00-0222 MO 1" x 6' x 8' Steel Plate	202.91	
01 22 23 00-0223 DAY 1" x 6' x 10' Steel Plate	63.41	
01 22 23 00-0224 WK 1" x 6' x 10' Steel Plate	83.49	
01 22 23 00-0225 MO 1" x 6' x 10' Steel Plate	222.98	
01 22 23 00-0226 DAY 1" x 6' x 12' Steel Plate	88.77	
01 22 23 00-0227 WK 1" x 6' x 12' Steel Plate	113.61	
01 22 23 00-0228 MO 1" x 6' x 12' Steel Plate	307.53	
01 22 23 00-0229 DAY 1" x 8' x 10' Steel Plate	56.01	
01 22 23 00-0230 WK 1" x 8' x 10' Steel Plate	125.76	
01 22 23 00-0231 MO 1" x 8' x 10' Steel Plate	335.01	
01 22 23 00-0232 DAY 1" x 8' x 12' Steel Plate	101.45	
01 22 23 00-0233 WK 1" x 8' x 12' Steel Plate	125.76	
01 22 23 00-0234 MO 1" x 8' x 12' Steel Plate	608.72	
01 22 23 00-0235 DAY 1" x 8' x 16' Steel Plate	135.27	
01 22 23 00-0236 WK 1" x 8' x 16' Steel Plate	304.36	
01 22 23 00-0237 MO 1" x 8' x 16' Steel Plate	811.62	
01 22 23 00-0238 LF Cold Mix For Temporary Ramp Base, 6" At Edge Of Trench Plate.....	2.43	1.05
01 22 23 00-0239 EA Removal And Resetting Of Steel Roadway Plate	30.12	
01 22 23 00-0240 Street Sweepers (01 22 23 00-0150) Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0241 DAY 8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator	985.72	
<i>For Equipment Without Operator, Deduct</i>	-799.10	
01 22 23 00-0242 WK 8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator	4,735.03	
<i>For Equipment Without Operator, Deduct</i>	-3,995.51	
01 22 23 00-0243 MO 8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator	19,948.65	
<i>For Equipment Without Operator, Deduct</i>	-17,313.89	
01 22 23 00-0244 DAY Self-Propelled Street Sweeper With Hopper And Full-Time Operator	1,720.51	
Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.		
<i>For Equipment Without Operator, Deduct</i>	-799.10	
01 22 23 00-0245 WK Self-Propelled Street Sweeper With Hopper And Full-Time Operator	7,686.25	
Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.		
<i>For Equipment Without Operator, Deduct</i>	-3,995.51	
01 22 23 00-0246 MO Self-Propelled Street Sweeper With Hopper And Full-Time Operator	30,485.24	
Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.		
<i>For Equipment Without Operator, Deduct</i>	-17,313.89	
01 22 23 00-0247 Earthmoving Equipment (01 22 23)		
01 22 23 00-0248 Skid-Steer Loaders (01 22 23 00-0247) Note: Includes full-time operator and combination bucket and dozer blade attachments. Add extra attachments where necessary. Excludes delivery, set-up, and removal.		
01 22 23 00-0249 DAY 700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator	1,148.73	
<i>For Equipment Without Operator, Deduct</i>	-799.10	
01 22 23 00-0250 WK 700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator	4,912.75	
<i>For Equipment Without Operator, Deduct</i>	-3,995.51	
01 22 23 00-0251 MO 700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator	19,522.87	
<i>For Equipment Without Operator, Deduct</i>	-17,313.89	
01 22 23 00-0252 DAY 1,500 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator	1,240.90	
<i>For Equipment Without Operator, Deduct</i>	-799.10	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0253	WK	1,500 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator	5,079.52		
		For Equipment Without Operator, Deduct	-3,995.51		
01 22 23 00-0254	MO	1,500 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator	19,888.59		
		For Equipment Without Operator, Deduct	-17,313.89		
01 22 23 00-0255	DAY	2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator	1,267.23		
		For Equipment Without Operator, Deduct	-799.10		
01 22 23 00-0256	WK	2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator	5,319.43		
		For Equipment Without Operator, Deduct	-3,995.51		
01 22 23 00-0257	MO	2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator	20,524.96		
		For Equipment Without Operator, Deduct	-17,313.89		
01 22 23 00-0258	DAY	2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	1,369.63		
		For Equipment Without Operator, Deduct	-799.10		
01 22 23 00-0259	WK	2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	5,655.90		
		For Equipment Without Operator, Deduct	-3,995.51		
01 22 23 00-0260	MO	2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	21,636.76		
		For Equipment Without Operator, Deduct	-17,313.89		
01 22 23 00-0261	DAY	3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	1,545.18		
		For Equipment Without Operator, Deduct	-799.10		
01 22 23 00-0262	WK	3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	6,321.52		
		For Equipment Without Operator, Deduct	-3,995.51		
01 22 23 00-0263	MO	3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator	23,275.21		
		For Equipment Without Operator, Deduct	-17,313.89		
01 22 23 00-0264	DAY	Hydraulic Hammer Attachment For Skid-Steer Loaders	292.58		
01 22 23 00-0265	WK	Hydraulic Hammer Attachment For Skid-Steer Loaders	972.83		
01 22 23 00-0266	MO	Hydraulic Hammer Attachment For Skid-Steer Loaders	2,589.33		
01 22 23 00-0267	DAY	Forklift Attachment For Skid-Steer Loaders	62.90		
01 22 23 00-0268	WK	Forklift Attachment For Skid-Steer Loaders	168.23		
01 22 23 00-0269	MO	Forklift Attachment For Skid-Steer Loaders	475.44		
01 22 23 00-0270	DAY	Backhoe Attachment For Skid-Steer Loaders	138.98		
01 22 23 00-0271	WK	Backhoe Attachment For Skid-Steer Loaders	333.54		
01 22 23 00-0272	MO	Backhoe Attachment For Skid-Steer Loaders	829.46		
01 22 23 00-0273	DAY	Broom Attachment For Skid-Steer Loaders	137.51		
01 22 23 00-0274	WK	Broom Attachment For Skid-Steer Loaders	373.04		
01 22 23 00-0275	MO	Broom Attachment For Skid-Steer Loaders	987.46		
01 22 23 00-0276	DAY	Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders	119.96		
01 22 23 00-0277	WK	Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders	330.62		
01 22 23 00-0278	MO	Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders	902.61		
01 22 23 00-0279	DAY	Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	33.06		
01 22 23 00-0280	WK	Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	86.50		
01 22 23 00-0281	MO	Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	254.41		
01 22 23 00-0282	DAY	>18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	44.52		
01 22 23 00-0283	WK	>18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	110.67		
01 22 23 00-0284	MO	>18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	330.75		
01 22 23 00-0285	DAY	Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	64.86		
01 22 23 00-0286	WK	Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	197.18		
01 22 23 00-0287	MO	Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger)	585.16		
01 22 23 00-0288	DAY	2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger)	13.17		
01 22 23 00-0289	WK	2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger)	30.72		
01 22 23 00-0290	MO	2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger)	81.92		
01 22 23 00-0291		Bulldozers (01 22 23 00-0247)			
		Note: Includes full-time operator. Excludes delivery, set-up, and removal.			
01 22 23 00-0292	DAY	70 HP, D3 Bulldozer With Full-Time Operator	1,195.00		
		For Equipment Without Operator, Deduct	-841.89		
01 22 23 00-0293	WK	70 HP, D3 Bulldozer With Full-Time Operator	5,601.91		
		For Equipment Without Operator, Deduct	-4,209.45		
01 22 23 00-0294	MO	70 HP, D3 Bulldozer With Full-Time Operator	22,371.71		
		For Equipment Without Operator, Deduct	-18,240.96		
01 22 23 00-0295	DAY	90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator	1,361.57		
		For Equipment Without Operator, Deduct	-841.89		
01 22 23 00-0296	WK	90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator	6,274.83		
		For Equipment Without Operator, Deduct	-4,209.45		
01 22 23 00-0297	MO	90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator	24,437.08		
		For Equipment Without Operator, Deduct	-18,240.96		
01 22 23 00-0298	DAY	140 HP, D6 Bulldozer With Full-Time Operator	1,834.60		
		For Equipment Without Operator, Deduct	-841.89		
01 22 23 00-0299	WK	140 HP, D6 Bulldozer With Full-Time Operator	8,166.97		
		For Equipment Without Operator, Deduct	-4,209.45		
01 22 23 00-0300	MO	140 HP, D6 Bulldozer With Full-Time Operator	30,100.21		
		For Equipment Without Operator, Deduct	-18,240.96		
01 22 23 00-0301	DAY	200 HP, D7 Bulldozer With Full-Time Operator	2,254.34		
		For Equipment Without Operator, Deduct	-841.89		
01 22 23 00-0302	WK	200 HP, D7 Bulldozer With Full-Time Operator	9,852.59		
		For Equipment Without Operator, Deduct	-4,209.45		
01 22 23 00-0303	MO	200 HP, D7 Bulldozer With Full-Time Operator	35,163.71		
		For Equipment Without Operator, Deduct	-18,240.96		
01 22 23 00-0304	DAY	335 HP, D8 Bulldozer With Full-Time Operator	2,754.03		
		For Equipment Without Operator, Deduct	-841.89		
01 22 23 00-0305	WK	335 HP, D8 Bulldozer With Full-Time Operator	11,851.34		
		For Equipment Without Operator, Deduct	-4,209.45		
01 22 23 00-0306	MO	335 HP, D8 Bulldozer With Full-Time Operator	41,159.96		
		For Equipment Without Operator, Deduct	-18,240.96		

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01 22 23 00-0307 DAY 460 HP, D9 Bulldozer With Full-Time Operator	3,033.85	
For Equipment Without Operator, Deduct	-841.89	
01 22 23 00-0308 WK 460 HP, D9 Bulldozer With Full-Time Operator	12,963.97	
For Equipment Without Operator, Deduct	-4,209.45	
01 22 23 00-0309 MO 460 HP, D9 Bulldozer With Full-Time Operator	44,491.21	
For Equipment Without Operator, Deduct	-18,240.96	
01 22 23 00-0310 Motor Scraper (01 22 23 00-0247)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0311 DAY 11 CY Motor Scraper-Hauler With Full-Time Operator	2,114.06	
For Equipment Without Operator, Deduct	-841.89	
01 22 23 00-0312 WK 11 CY Motor Scraper-Hauler With Full-Time Operator	9,298.13	
For Equipment Without Operator, Deduct	-4,209.45	
01 22 23 00-0313 MO 11 CY Motor Scraper-Hauler With Full-Time Operator	33,489.58	
For Equipment Without Operator, Deduct	-18,240.96	
01 22 23 00-0314 DAY 18 CY Motor Scraper-Hauler With Full-Time Operator	2,628.16	
For Equipment Without Operator, Deduct	-841.89	
01 22 23 00-0315 WK 18 CY Motor Scraper-Hauler With Full-Time Operator	11,354.52	
For Equipment Without Operator, Deduct	-4,209.45	
01 22 23 00-0316 MO 18 CY Motor Scraper-Hauler With Full-Time Operator	39,676.17	
For Equipment Without Operator, Deduct	-18,240.96	
01 22 23 00-0317 DAY 24 CY Motor Scraper-Hauler With Full-Time Operator	3,124.83	
For Equipment Without Operator, Deduct	-841.89	
01 22 23 00-0318 WK 24 CY Motor Scraper-Hauler With Full-Time Operator	13,332.48	
For Equipment Without Operator, Deduct	-4,209.45	
01 22 23 00-0319 MO 24 CY Motor Scraper-Hauler With Full-Time Operator	45,601.35	
For Equipment Without Operator, Deduct	-18,240.96	
01 22 23 00-0320 Hydraulic Excavators (01 22 23 00-0247)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0321 DAY 3/8 CY Hydraulic Excavator With Full-Time Operator	1,219.78	
For Equipment Without Operator, Deduct	-841.89	
01 22 23 00-0322 WK 3/8 CY Hydraulic Excavator With Full-Time Operator	5,546.07	
For Equipment Without Operator, Deduct	-4,209.45	
01 22 23 00-0323 MO 3/8 CY Hydraulic Excavator With Full-Time Operator	22,719.68	
For Equipment Without Operator, Deduct	-18,240.96	
01 22 23 00-0324 DAY 1/2 CY Hydraulic Excavator With Full-Time Operator	1,326.15	
For Equipment Without Operator, Deduct	-841.89	
01 22 23 00-0325 WK 1/2 CY Hydraulic Excavator With Full-Time Operator	6,014.93	
For Equipment Without Operator, Deduct	-4,209.45	
01 22 23 00-0326 MO 1/2 CY Hydraulic Excavator With Full-Time Operator	24,595.14	
For Equipment Without Operator, Deduct	-18,240.96	
01 22 23 00-0327 DAY 5/8 CY Hydraulic Excavator With Full-Time Operator	1,359.74	
For Equipment Without Operator, Deduct	-841.89	
01 22 23 00-0328 WK 5/8 CY Hydraulic Excavator With Full-Time Operator	6,189.88	
For Equipment Without Operator, Deduct	-4,209.45	
01 22 23 00-0329 MO 5/8 CY Hydraulic Excavator With Full-Time Operator	24,903.06	
For Equipment Without Operator, Deduct	-18,240.96	
01 22 23 00-0330 DAY 3/4 CY Hydraulic Excavator With Full-Time Operator	1,394.73	
For Equipment Without Operator, Deduct	-841.89	
01 22 23 00-0331 WK 3/4 CY Hydraulic Excavator With Full-Time Operator	6,350.84	
For Equipment Without Operator, Deduct	-4,209.45	
01 22 23 00-0332 MO 3/4 CY Hydraulic Excavator With Full-Time Operator	25,210.97	
For Equipment Without Operator, Deduct	-18,240.96	
01 22 23 00-0333 DAY 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator	1,422.72	
For Equipment Without Operator, Deduct	-841.89	
01 22 23 00-0334 WK 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator	6,518.79	
For Equipment Without Operator, Deduct	-4,209.45	
01 22 23 00-0335 MO 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator	25,518.88	
For Equipment Without Operator, Deduct	-18,240.96	
01 22 23 00-0336 DAY 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator	1,800.62	
For Equipment Without Operator, Deduct	-841.89	
01 22 23 00-0337 WK 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator	8,023.36	
For Equipment Without Operator, Deduct	-4,209.45	
01 22 23 00-0338 MO 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator	29,682.69	
For Equipment Without Operator, Deduct	-18,240.96	
01 22 23 00-0339 DAY 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator	1,856.60	
For Equipment Without Operator, Deduct	-841.89	
01 22 23 00-0340 WK 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator	8,268.29	
For Equipment Without Operator, Deduct	-4,209.45	
01 22 23 00-0341 MO 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator	30,417.48	
For Equipment Without Operator, Deduct	-18,240.96	
01 22 23 00-0342 DAY 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator	1,961.57	
For Equipment Without Operator, Deduct	-841.89	
01 22 23 00-0343 WK 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator	8,688.17	
For Equipment Without Operator, Deduct	-4,209.45	
01 22 23 00-0344 MO 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator	31,677.12	
For Equipment Without Operator, Deduct	-18,240.96	
01 22 23 00-0345 DAY 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator	2,080.54	
For Equipment Without Operator, Deduct	-841.89	
01 22 23 00-0346 WK 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator	9,157.04	
For Equipment Without Operator, Deduct	-4,209.45	



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01 22 23 00-0347	MO	2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator		33,076.72	
		For Equipment Without Operator, Deduct	.....	-18,240.96	
01 22 23 00-0348	DAY	2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator	.....	2,115.53	
		For Equipment Without Operator, Deduct	.....	-841.89	
01 22 23 00-0349	WK	2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator	.....	9,297.00	
		For Equipment Without Operator, Deduct	.....	-4,209.45	
01 22 23 00-0350	MO	2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator	.....	33,496.60	
		For Equipment Without Operator, Deduct	.....	-18,240.96	
01 22 23 00-0351	DAY	3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator	.....	2,451.43	
		For Equipment Without Operator, Deduct	.....	-841.89	
01 22 23 00-0352	WK	3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator	.....	10,647.61	
		For Equipment Without Operator, Deduct	.....	-4,209.45	
01 22 23 00-0353	MO	3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator	.....	37,555.44	
		For Equipment Without Operator, Deduct	.....	-18,240.96	
01 22 23 00-0354	DAY	4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator	.....	2,934.29	
		For Equipment Without Operator, Deduct	.....	-841.89	
01 22 23 00-0355	WK	4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator	.....	12,565.06	
		For Equipment Without Operator, Deduct	.....	-4,209.45	
01 22 23 00-0356	MO	4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator	.....	43,293.80	
		For Equipment Without Operator, Deduct	.....	-18,240.96	
01 22 23 00-0357	DAY	6 To 11 CY Hydraulic Excavator With Full-Time Operator	.....	3,529.12	
		For Equipment Without Operator, Deduct	.....	-841.89	
01 22 23 00-0358	WK	6 To 11 CY Hydraulic Excavator With Full-Time Operator	.....	14,944.38	
		For Equipment Without Operator, Deduct	.....	-4,209.45	
01 22 23 00-0359	MO	6 To 11 CY Hydraulic Excavator With Full-Time Operator	.....	50,431.76	
		For Equipment Without Operator, Deduct	.....	-18,240.96	
01 22 23 00-0360	DAY	Thumbs Or Grapple Attachment For Hydraulic Excavators	.....	97.97	
01 22 23 00-0361	WK	Thumbs Or Grapple Attachment For Hydraulic Excavators	.....	377.89	
01 22 23 00-0362	MO	Thumbs Or Grapple Attachment For Hydraulic Excavators	.....	1,119.68	
01 22 23 00-0363	DAY	1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators	.....	433.88	
01 22 23 00-0364	WK	1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators	.....	1,147.67	
01 22 23 00-0365	MO	1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators	.....	3,212.08	
01 22 23 00-0366	DAY	1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators	.....	671.81	
01 22 23 00-0367	WK	1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators	.....	1,714.51	
01 22 23 00-0368	MO	1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators	.....	4,457.73	
01 22 23 00-0369	DAY	3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators	.....	937.73	
01 22 23 00-0370	WK	3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators	.....	2,526.28	
01 22 23 00-0371	MO	3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators	.....	7,081.98	
01 22 23 00-0372	DAY	24" Compaction Wheel Attachment For Hydraulic Excavators	.....	195.94	
01 22 23 00-0373	WK	24" Compaction Wheel Attachment For Hydraulic Excavators	.....	783.78	
01 22 23 00-0374	MO	24" Compaction Wheel Attachment For Hydraulic Excavators	.....	2,351.33	
01 22 23 00-0375	DAY	36" Compaction Wheel Attachment For Hydraulic Excavators	.....	279.92	
01 22 23 00-0376	WK	36" Compaction Wheel Attachment For Hydraulic Excavators	.....	1,119.68	
01 22 23 00-0377	MO	36" Compaction Wheel Attachment For Hydraulic Excavators	.....	3,359.04	
01 22 23 00-0378	DAY	48" Compaction Wheel Attachment For Hydraulic Excavators	.....	307.91	
01 22 23 00-0379	WK	48" Compaction Wheel Attachment For Hydraulic Excavators	.....	1,217.65	
01 22 23 00-0380	MO	48" Compaction Wheel Attachment For Hydraulic Excavators	.....	3,638.96	
01 22 23 00-0381 Mini-Excavators (01 22 23 00-0247)					
Note: Includes full-time operator. Excludes delivery, set-up, and removal.					
01 22 23 00-0382	DAY	2,000 LB Mini-Excavator With Full-Time Operator	.....	1,135.81	
		For Equipment Without Operator, Deduct	.....	-841.89	
01 22 23 00-0383	WK	2,000 LB Mini-Excavator With Full-Time Operator	.....	5,042.21	
		For Equipment Without Operator, Deduct	.....	-4,209.45	
01 22 23 00-0384	MO	2,000 LB Mini-Excavator With Full-Time Operator	.....	20,074.44	
		For Equipment Without Operator, Deduct	.....	-18,240.96	
01 22 23 00-0385	DAY	3,500 LB Mini-Excavator With Full-Time Operator	.....	1,142.80	
		For Equipment Without Operator, Deduct	.....	-841.89	
01 22 23 00-0386	WK	3,500 LB Mini-Excavator With Full-Time Operator	.....	5,063.21	
		For Equipment Without Operator, Deduct	.....	-4,209.45	
01 22 23 00-0387	MO	3,500 LB Mini-Excavator With Full-Time Operator	.....	20,515.31	
		For Equipment Without Operator, Deduct	.....	-18,240.96	
01 22 23 00-0388	DAY	6,000 LB Mini-Excavator With Full-Time Operator	.....	1,177.79	
		For Equipment Without Operator, Deduct	.....	-841.89	
01 22 23 00-0389	WK	6,000 LB Mini-Excavator With Full-Time Operator	.....	5,161.18	
		For Equipment Without Operator, Deduct	.....	-4,209.45	
01 22 23 00-0390	MO	6,000 LB Mini-Excavator With Full-Time Operator	.....	20,578.29	
		For Equipment Without Operator, Deduct	.....	-18,240.96	
01 22 23 00-0391	DAY	7,500 LB Mini-Excavator With Full-Time Operator	.....	1,191.79	
		For Equipment Without Operator, Deduct	.....	-841.89	
01 22 23 00-0392	WK	7,500 LB Mini-Excavator With Full-Time Operator	.....	5,210.16	
		For Equipment Without Operator, Deduct	.....	-4,209.45	
01 22 23 00-0393	MO	7,500 LB Mini-Excavator With Full-Time Operator	.....	20,606.28	
		For Equipment Without Operator, Deduct	.....	-18,240.96	
01 22 23 00-0394	DAY	9,500 LB Mini-Excavator With Full-Time Operator	.....	1,275.77	
		For Equipment Without Operator, Deduct	.....	-841.89	
01 22 23 00-0395	WK	9,500 LB Mini-Excavator With Full-Time Operator	.....	5,280.14	
		For Equipment Without Operator, Deduct	.....	-4,209.45	
01 22 23 00-0396	MO	9,500 LB Mini-Excavator With Full-Time Operator	.....	21,418.05	
		For Equipment Without Operator, Deduct	.....	-18,240.96	
01 22 23 00-0397	DAY	11,000 LB Mini-Excavator With Full-Time Operator		1,282.76	
		For Equipment Without Operator, Deduct		-841.89	

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01 22 23 00-0398 WK 11,000 LB Mini-Excavator With Full-Time Operator.....	5,630.04	
For Equipment Without Operator, Deduct	-4,209.45	
01 22 23 00-0399 MO 11,000 LB Mini-Excavator With Full-Time Operator.....	21,453.04	
For Equipment Without Operator, Deduct	-18,240.96	
01 22 23 00-0400 Road Graders (01 22 23 00-0247)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0401 DAY 60 HP Road Grader With Full-Time Operator.....	1,562.32	
For Equipment Without Operator, Deduct	-841.89	
01 22 23 00-0402 WK 60 HP Road Grader With Full-Time Operator.....	6,158.31	
For Equipment Without Operator, Deduct	-4,209.45	
01 22 23 00-0403 MO 60 HP Road Grader With Full-Time Operator.....	24,069.07	
For Equipment Without Operator, Deduct	-18,240.96	
01 22 23 00-0404 DAY 80 HP Road Grader With Full-Time Operator.....	1,774.76	
For Equipment Without Operator, Deduct	-841.89	
01 22 23 00-0405 WK 80 HP Road Grader With Full-Time Operator.....	6,749.44	
For Equipment Without Operator, Deduct	-4,209.45	
01 22 23 00-0406 MO 80 HP Road Grader With Full-Time Operator.....	25,860.92	
For Equipment Without Operator, Deduct	-18,240.96	
01 22 23 00-0407 DAY 130 HP Road Grader With Full-Time Operator.....	1,630.90	
For Equipment Without Operator, Deduct	-841.89	
01 22 23 00-0408 WK 130 HP Road Grader With Full-Time Operator.....	7,365.50	
For Equipment Without Operator, Deduct	-4,209.45	
01 22 23 00-0409 MO 130 HP Road Grader With Full-Time Operator.....	29,519.68	
For Equipment Without Operator, Deduct	-18,240.96	
01 22 23 00-0410 Loader-Backhoes With Standard Bucket (01 22 23 00-0247)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0411 DAY 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator.....	1,181.05	
For Equipment Without Operator, Deduct	-841.89	
01 22 23 00-0412 WK 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator.....	5,014.96	
For Equipment Without Operator, Deduct	-4,209.45	
01 22 23 00-0413 MO 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator.....	20,136.64	
For Equipment Without Operator, Deduct	-18,240.96	
01 22 23 00-0414 DAY 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator.....	1,217.39	
For Equipment Without Operator, Deduct	-841.89	
01 22 23 00-0415 WK 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator.....	5,142.15	
For Equipment Without Operator, Deduct	-4,209.45	
01 22 23 00-0416 MO 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator.....	20,911.88	
For Equipment Without Operator, Deduct	-18,240.96	
01 22 23 00-0417 DAY 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator.....	1,273.42	
For Equipment Without Operator, Deduct	-841.89	
01 22 23 00-0418 WK 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator.....	5,281.45	
For Equipment Without Operator, Deduct	-4,209.45	
01 22 23 00-0419 MO 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator.....	21,311.61	
For Equipment Without Operator, Deduct	-18,240.96	
01 22 23 00-0420 DAY 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator.....	1,523.25	
For Equipment Without Operator, Deduct	-841.89	
01 22 23 00-0421 WK 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator.....	6,026.40	
For Equipment Without Operator, Deduct	-4,209.45	
01 22 23 00-0422 MO 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator.....	23,443.49	
For Equipment Without Operator, Deduct	-18,240.96	
01 22 23 00-0423 Heavy Duty Construction Loaders (01 22 23 00-0247)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0424 DAY 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator.....	1,396.89	
For Equipment Without Operator, Deduct	-841.89	
01 22 23 00-0425 WK 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator.....	6,403.84	
For Equipment Without Operator, Deduct	-4,209.45	
01 22 23 00-0426 MO 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator.....	24,815.60	
For Equipment Without Operator, Deduct	-18,240.96	
01 22 23 00-0427 DAY 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator.....	1,857.97	
For Equipment Without Operator, Deduct	-841.89	
01 22 23 00-0428 WK 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator.....	6,907.62	
For Equipment Without Operator, Deduct	-4,209.45	
01 22 23 00-0429 MO 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator.....	25,071.76	
For Equipment Without Operator, Deduct	-18,240.96	
01 22 23 00-0430 DAY 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator.....	1,960.43	
For Equipment Without Operator, Deduct	-841.89	
01 22 23 00-0431 WK 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator.....	7,180.85	
For Equipment Without Operator, Deduct	-4,209.45	
01 22 23 00-0432 MO 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator.....	25,754.84	
For Equipment Without Operator, Deduct	-18,240.96	
01 22 23 00-0433 DAY 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator.....	2,242.20	
For Equipment Without Operator, Deduct	-841.89	
01 22 23 00-0434 WK 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator.....	7,923.70	
For Equipment Without Operator, Deduct	-4,209.45	
01 22 23 00-0435 MO 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator.....	27,633.31	
For Equipment Without Operator, Deduct	-18,240.96	
01 22 23 00-0436 DAY 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator.....	2,967.98	
For Equipment Without Operator, Deduct	-841.89	



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01 22 23 00-0437 WK 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	12,696.72 -4,209.45	
01 22 23 00-0438 MO 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	43,685.69 -18,240.96	
01 22 23 00-0439 DAY 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	7,749.45 -841.89	
01 22 23 00-0440 WK 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	26,639.85 -4,209.45	
01 22 23 00-0441 MO 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	79,369.87 -18,240.96	
01 22 23 00-0442 Gradall, Telescopic Hydraulic Excavators (01 22 23 00-0247)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0443 DAY Gradall, Telescopic Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Track Gradall, Add</i>	2,787.00 -841.89 233.41	
01 22 23 00-0444 WK Gradall, Telescopic Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Track Gradall, Add</i>	11,981.21 -4,209.45 932.61	
01 22 23 00-0445 MO Gradall, Telescopic Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Track Gradall, Add</i>	45,979.48 -18,240.96 3,328.62	
01 22 23 00-0446 Shoring (01 22 23 00-0247)		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0447 Aluminum Hydraulic Shoring (01 22 23 00-0446)		
Note: Includes delivery to job site and pick-up when complete. Excludes sheeting.		
01 22 23 00-0448 WK 2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring..... Note: Up to 88" spread width.	111.58	
01 22 23 00-0449 MO 2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring..... Note: Up to 88" spread width.	329.12	
01 22 23 00-0450 WK Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring..... Note: Up to 88" spread width.	149.69	
01 22 23 00-0451 MO Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring..... Note: Up to 88" spread width.	441.51	
01 22 23 00-0452 WK Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring..... Note: Up to 88" spread width.	277.56	
01 22 23 00-0453 MO Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring..... Note: Up to 88" spread width.	818.79	
01 22 23 00-0454 EA Set-up And Removal Of 1 Cylinder Aluminum Hydraulic Shores.....	26.81	
01 22 23 00-0455 EA Set-up And Removal Of 2 Cylinders Aluminum Hydraulic Shores.....	42.90	
01 22 23 00-0456 EA Set-up And Removal Of 3 Cylinders Aluminum Hydraulic Shores.....	71.49	
01 22 23 00-0457 Trench Boxes/Trench Shields (01 22 23 00-0247)		
Note: Trenching tasks include moving the trench box in excavation as trenching proceeds. Includes delivery to job site and pick-up when complete. For stackable units, combine multiple units for depth required.		
01 22 23 00-0458 WK 4' x 6' Trench Box With Up To 48" Spreaders.....	229.62	
01 22 23 00-0459 MO 4' x 6' Trench Box With Up To 48" Spreaders.....	688.85	
01 22 23 00-0460 WK 6' x 6' Trench Box With Up To 48" Spreaders.....	259.24	
01 22 23 00-0461 MO 6' x 6' Trench Box With Up To 48" Spreaders.....	777.74	
01 22 23 00-0462 WK 8' x 6' Trench Box With Up To 48" Spreaders.....	274.06	
01 22 23 00-0463 MO 8' x 6' Trench Box With Up To 48" Spreaders.....	822.18	
01 22 23 00-0464 WK 4' x 8' Trench Box With Up To 48" Spreaders.....	251.84	
01 22 23 00-0465 MO 4' x 8' Trench Box With Up To 48" Spreaders.....	755.51	
01 22 23 00-0466 WK 6' x 8' Trench Box With Up To 48" Spreaders.....	296.28	
01 22 23 00-0467 MO 6' x 8' Trench Box With Up To 48" Spreaders.....	888.84	
01 22 23 00-0468 WK 8' x 8' Trench Box With Up To 48" Spreaders.....	333.32	
01 22 23 00-0469 MO 8' x 8' Trench Box With Up To 48" Spreaders.....	999.94	
01 22 23 00-0470 WK 4' x 10' Trench Box With Up To 48" Spreaders.....	281.47	
01 22 23 00-0471 MO 4' x 10' Trench Box With Up To 48" Spreaders.....	844.40	
01 22 23 00-0472 WK 6' x 10' Trench Box With Up To 48" Spreaders.....	333.32	
01 22 23 00-0473 MO 6' x 10' Trench Box With Up To 48" Spreaders.....	999.94	
01 22 23 00-0474 WK 8' x 10' Trench Box With Up To 48" Spreaders.....	407.38	
01 22 23 00-0475 MO 8' x 10' Trench Box With Up To 48" Spreaders.....	1,214.75	
01 22 23 00-0476 WK 4' x 12' Trench Box With Up To 48" Spreaders.....	333.32	
01 22 23 00-0477 MO 4' x 12' Trench Box With Up To 48" Spreaders.....	999.94	
01 22 23 00-0478 WK 6' x 12' Trench Box With Up To 48" Spreaders.....	407.38	
01 22 23 00-0479 MO 6' x 12' Trench Box With Up To 48" Spreaders.....	1,222.16	
01 22 23 00-0480 WK 8' x 12' Trench Box With Up To 48" Spreaders.....	518.49	
01 22 23 00-0481 MO 8' x 12' Trench Box With Up To 48" Spreaders.....	1,555.47	
01 22 23 00-0482 WK 4' x 14' Trench Box With Up To 48" Spreaders.....	370.35	
01 22 23 00-0483 MO 4' x 14' Trench Box With Up To 48" Spreaders.....	1,111.05	
01 22 23 00-0484 WK 6' x 14' Trench Box With Up To 48" Spreaders.....	481.46	
01 22 23 00-0485 MO 6' x 14' Trench Box With Up To 48" Spreaders.....	1,444.36	
01 22 23 00-0486 WK 8' x 14' Trench Box With Up To 48" Spreaders.....	592.56	
01 22 23 00-0487 MO 8' x 14' Trench Box With Up To 48" Spreaders.....	1,777.68	
01 22 23 00-0488 WK 4' x 16' Trench Box With Up To 48" Spreaders.....	407.38	
01 22 23 00-0489 MO 4' x 16' Trench Box With Up To 48" Spreaders.....	1,222.16	
01 22 23 00-0490 WK 6' x 16' Trench Box With Up To 48" Spreaders.....	555.52	

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01 22 23 00-0491 MO 6' x 16' Trench Box With Up To 48" Spreaders.....	1,666.58	
01 22 23 00-0492 WK 8' x 16' Trench Box With Up To 48" Spreaders.....	666.63	
01 22 23 00-0493 MO 8' x 16' Trench Box With Up To 48" Spreaders.....	1,999.89	
01 22 23 00-0494 WK 4' x 20' Trench Box With Up To 48" Spreaders.....	481.46	
01 22 23 00-0495 MO 4' x 20' Trench Box With Up To 48" Spreaders.....	1,444.36	
01 22 23 00-0496 WK 6' x 20' Trench Box With Up To 48" Spreaders.....	666.63	
01 22 23 00-0497 MO 6' x 20' Trench Box With Up To 48" Spreaders.....	1,999.89	
01 22 23 00-0498 WK 8' x 20' Trench Box With Up To 48" Spreaders.....	777.74	
01 22 23 00-0499 MO 8' x 20' Trench Box With Up To 48" Spreaders.....	2,333.20	
01 22 23 00-0500 WK 4' x 24' Trench Box With Up To 48" Spreaders.....	666.63	
01 22 23 00-0501 MO 4' x 24' Trench Box With Up To 48" Spreaders.....	1,999.89	
01 22 23 00-0502 WK 6' x 24' Trench Box With Up To 48" Spreaders.....	814.77	
01 22 23 00-0503 MO 6' x 24' Trench Box With Up To 48" Spreaders.....	2,444.31	
01 22 23 00-0504 WK 8' x 24' Trench Box With Up To 48" Spreaders.....	888.84	
01 22 23 00-0505 MO 8' x 24' Trench Box With Up To 48" Spreaders.....	2,666.52	
01 22 23 00-0506 WK For Spreaders >48" To 84", Add.....	22.22	
01 22 23 00-0507 MO For Spreaders >48" To 84", Add.....	66.66	
01 22 23 00-0508 WK For Spreaders >84" To 120", Add.....	133.33	
01 22 23 00-0509 MO For Spreaders >84" To 120", Add.....	399.98	
01 22 23 00-0510 WK For Spreaders >120", Add.....	281.47	
01 22 23 00-0511 MO For Spreaders >120", Add.....	844.40	
01 22 23 00-0512 WK 8' x 4' Manhole Box.....	349.98	
01 22 23 00-0513 MO 8' x 4' Manhole Box.....	1,049.94	
01 22 23 00-0514 WK 8' x 8' Manhole Box.....	499.97	
01 22 23 00-0515 MO 8' x 8' Manhole Box.....	1,499.92	
01 22 23 00-0516 Trenchers (01 22 23 00-0247) Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0517 DAY 4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	1,208.80	
For Equipment Without Operator, Deduct.....	-799.10	
01 22 23 00-0518 WK 4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	5,391.04	
For Equipment Without Operator, Deduct.....	-3,995.51	
01 22 23 00-0519 MO 4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	21,154.79	
For Equipment Without Operator, Deduct.....	-17,313.89	
01 22 23 00-0520 DAY 5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	1,900.16	
For Equipment Without Operator, Deduct.....	-799.10	
01 22 23 00-0521 WK 5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	7,721.18	
For Equipment Without Operator, Deduct.....	-3,995.51	
01 22 23 00-0522 MO 5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	27,556.29	
For Equipment Without Operator, Deduct.....	-17,313.89	
01 22 23 00-0523 Portable Sediment Tank (01 22 23 00-0247) Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0524 WK Portable Sediment Tank.....	193.32	
01 22 23 00-0525 MO Portable Sediment Tank.....	567.07	
01 22 23 00-0526 Heavy Equipment (Ground Protection) Mats (01 22 23 00-0247) Note: Rental price per mat. Excludes placement, moving, mobilization and demobilization. See CSI section 01 22 23 00-0247 for equipment for offloading/reloading from delivery vehicle, placing, and moving mats, 01 71 13 00-0001 for equipment delivery, pickup, mobilization and demobilization.		
01 22 23 00-0527 DAY 14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	35.15	
01 22 23 00-0528 WK 14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	83.68	
01 22 23 00-0529 MO 14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	175.73	
01 22 23 00-0530 DAY 16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	36.90	
01 22 23 00-0531 WK 16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	87.86	
01 22 23 00-0532 MO 16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat.....	184.52	
01 22 23 00-0533 Day 16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	29.87	
01 22 23 00-0534 WK 16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	70.29	
01 22 23 00-0535 MO 16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	149.37	
01 22 23 00-0536 Day 18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	33.39	
01 22 23 00-0537 WK 18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	79.08	
01 22 23 00-0538 MO 18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	166.94	
01 22 23 00-0539 Day 20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	36.90	
01 22 23 00-0540 WK 20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	87.86	
01 22 23 00-0541 MO 20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	184.52	
01 22 23 00-0542 Day 24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	40.42	
01 22 23 00-0543 WK 24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	96.23	
01 22 23 00-0544 MO 24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat.....	202.09	
01 22 23 00-0545 Day 12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	31.63	
01 22 23 00-0546 WK 12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	87.86	
01 22 23 00-0547 MO 12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	158.16	
01 22 23 00-0548 Day 16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	36.90	
01 22 23 00-0549 WK 16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	87.86	
01 22 23 00-0550 MO 16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	184.52	
01 22 23 00-0551 Day 20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	43.93	
01 22 23 00-0552 WK 20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	96.65	
01 22 23 00-0553 MO 20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	219.66	
01 22 23 00-0554 Day 24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	47.45	
01 22 23 00-0555 WK 24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	112.97	



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01 22 23 00-0556 MO 24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	237.24	
01 22 23 00-0557 Day 28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	50.96	
01 22 23 00-0558 WK 28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	121.34	
01 22 23 00-0559 MO 28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	254.81	
01 22 23 00-0560 Day 30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	52.72	
01 22 23 00-0561 WK 30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	125.52	
01 22 23 00-0562 MO 30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat.....	263.60	
01 22 23 00-0563 Day 14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™).....	16.91	
01 22 23 00-0564 WK 14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™).....	42.26	
01 22 23 00-0565 MO 14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™).....	126.79	
01 22 23 00-0566 Day 14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	20.21	
01 22 23 00-0567 WK 14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	50.52	
01 22 23 00-0568 MO 14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	151.57	
01 22 23 00-0569 Day 16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	23.08	
01 22 23 00-0570 WK 16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	57.70	
01 22 23 00-0571 MO 16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	173.09	
01 22 23 00-0572 Day 14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	24.60	
01 22 23 00-0573 WK 14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	61.51	
01 22 23 00-0574 MO 14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	184.52	
01 22 23 00-0575 Day 16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	28.12	
01 22 23 00-0576 WK 16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	70.29	
01 22 23 00-0577 MO 16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	210.88	
01 22 23 00-0578 Day 16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	32.31	
01 22 23 00-0579 WK 16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	80.78	
01 22 23 00-0580 MO 16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	242.33	
01 22 23 00-0581 Day 24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™).....	24.86	
01 22 23 00-0582 WK 24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™).....	62.15	
01 22 23 00-0583 MO 24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™).....	186.45	
01 22 23 00-0584 Day 30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	33.66	
01 22 23 00-0585 WK 30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	84.15	
01 22 23 00-0586 MO 30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	252.44	
01 22 23 00-0587 Day 24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	29.10	
01 22 23 00-0588 WK 24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	72.75	
01 22 23 00-0589 MO 24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	218.26	
01 22 23 00-0590 Day 40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	48.53	
01 22 23 00-0591 WK 40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	121.34	
01 22 23 00-0592 MO 40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™).....	364.01	
01 22 23 00-0593 Day 40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™).....	51.73	
01 22 23 00-0594 WK 40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™).....	129.34	
01 22 23 00-0595 MO 40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™).....	388.01	
01 22 23 00-0596 Electrical Equipment (01 22 23)		
01 22 23 00-0597 Tripod Mounted Floodlights (01 22 23 00-0596)		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0598 DAY 500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	62.62	
01 22 23 00-0599 WK 500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	148.14	
01 22 23 00-0600 MO 500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	313.08	
01 22 23 00-0601 DAY 1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	62.62	
01 22 23 00-0602 WK 1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	183.26	
01 22 23 00-0603 MO 1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	542.16	
01 22 23 00-0604 DAY 2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	70.25	
01 22 23 00-0605 WK 2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	190.90	
01 22 23 00-0606 MO 2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	465.80	
01 22 23 00-0607 Trailer Mounted Floodlights (01 22 23 00-0596)		
Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0608 DAY 4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower.....	175.63	
01 22 23 00-0609 WK 4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower.....	389.44	
01 22 23 00-0610 MO 4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower.....	839.96	
01 22 23 00-0611 Generator Sets (01 22 23 00-0596)		
01 22 23 00-0612 Portable, Gas Or Diesel Powered Generator Sets (01 22 23 00-0611)		
Note: With 24 hour day-tank. Includes delivery to job site and pick-up when complete. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0754 for reimbursable fuel fees.		
01 22 23 00-0613 DAY 3.6 KW, 8 HP Gas Powered Generator Set.....	52.78	
For LP Or NG Gas, Add	6.60	
For >160 To 320 Hours Usage Per Month, Add	26.39	
01 22 23 00-0614 WK 3.6 KW, 8 HP Gas Powered Generator Set.....	190.25	
For LP Or NG Gas, Add	23.78	
01 22 23 00-0615 MO 3.6 KW, 8 HP Gas Powered Generator Set.....	527.78	
For LP Or NG Gas, Add	65.97	
01 22 23 00-0616 DAY 5 KW, 11 HP Gas Powered Generator Set.....	74.87	
For LP Or NG Gas, Add	9.36	
01 22 23 00-0617 WK 5 KW, 11 HP Gas Powered Generator Set.....	239.34	
For LP Or NG Gas, Add	29.92	
01 22 23 00-0618 MO 5 KW, 11 HP Gas Powered Generator Set.....	546.19	
For LP Or NG Gas, Add	68.27	

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01 22 23 00-0619 DAY 6.5 KW, 13 HP Gas Powered Generator Set.....	95.74	
For LP Or NG Gas, Add	11.97	
01 22 23 00-0620 WK 6.5 KW, 13 HP Gas Powered Generator Set.....	257.75	
For LP Or NG Gas, Add	32.22	
01 22 23 00-0621 MO 6.5 KW, 13 HP Gas Powered Generator Set.....	711.89	
For LP Or NG Gas, Add	88.99	
01 22 23 00-0622 DAY 10 KW, 18 HP Gas Powered Generator Set.....	106.78	
For LP Or NG Gas, Add	13.35	
01 22 23 00-0623 WK 10 KW, 18 HP Gas Powered Generator Set.....	288.44	
For LP Or NG Gas, Add	36.06	
01 22 23 00-0624 MO 10 KW, 18 HP Gas Powered Generator Set.....	828.50	
For LP Or NG Gas, Add	103.56	
01 22 23 00-0625 Towable, Diesel Powered Generator Sets (01 22 23 00-0611)		
Note: Includes 24 hour day-tank on sizes up to 180KW, 40 hour day-tank for sizes greater than 180KW to 300 KW and 1000 gallon for sizes greater than 300KW. Multi-voltage transformer unless stated otherwise, trailer mounted including sound attenuation and control panel. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0754 for reimbursable fuel fees.		
01 22 23 00-0626 DAY 20 KW, 60 Hertz Towable Diesel Powered Generator Set.....	219.70	
Note: Fuel consumption: 100% load - 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	109.85	
For >16 To 24 Hours Usage Per Day, Add	219.70	
01 22 23 00-0627 WK 20 KW, 60 Hertz Towable Diesel Powered Generator Set.....	574.42	
Note: Fuel consumption: 100% load - 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	287.21	
For >80 Hours Usage Per Week, Add	574.42	
01 22 23 00-0628 MO 20 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,564.94	
Note: Fuel consumption: 100% load - 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	782.47	
For >320 Hours Usage Per Month, Add	1,564.94	
01 22 23 00-0629 DAY 30 KW, 60 Hertz Towable Diesel Powered Generator Set.....	335.48	
Note: Fuel consumption: 100% load - 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	167.74	
For >16 To 24 Hours Usage Per Day, Add	335.48	
01 22 23 00-0630 WK 30 KW, 60 Hertz Towable Diesel Powered Generator Set.....	995.62	
Note: Fuel consumption: 100% load - 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	497.81	
For >80 Hours Usage Per Week, Add	995.62	
01 22 23 00-0631 MO 30 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,056.18	
Note: Fuel consumption: 100% load - 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	1,028.09	
For >320 Hours Usage Per Month, Add	2,056.18	
01 22 23 00-0632 DAY 40.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	367.95	
Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	183.98	
For >16 To 24 Hours Usage Per Day, Add	367.95	
01 22 23 00-0633 WK 40.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,028.09	
Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	514.05	
For >80 Hours Usage Per Week, Add	1,028.09	
01 22 23 00-0634 MO 40.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,272.62	
Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	1,136.31	
For >320 Hours Usage Per Month, Add	2,272.62	
01 22 23 00-0635 DAY 55.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	395.00	
Note: Fuel consumption: 100% load - 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	197.50	
For >16 To 24 Hours Usage Per Day, Add	395.00	
01 22 23 00-0636 WK 55.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,082.20	
Note: Fuel consumption: 100% load - 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	541.10	
For >80 Hours Usage Per Week, Add	1,082.20	
01 22 23 00-0637 MO 55.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,597.28	
Note: Fuel consumption: 100% load - 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	1,298.64	
For >320 Hours Usage Per Month, Add	2,597.28	
01 22 23 00-0638 DAY 70.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	432.88	
Note: Fuel consumption: 100% load - 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	216.44	
For >16 To 24 Hours Usage Per Day, Add	432.88	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0639	WK		70.0 KW, 60 Hertz Towable Diesel Powered Generator Set 1,228.30 Note: Fuel consumption: 100% load – 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour. For >40 To 80 Hours Usage Per Week, Add 614.15 For >80 Hours Usage Per Week, Add 1,228.30		
01 22 23 00-0640	MO		70.0 KW, 60 Hertz Towable Diesel Powered Generator Set 2,921.94 Note: Fuel consumption: 100% load – 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour. For >160 To 320 Hours Usage Per Month, Add 1,460.97 For >320 Hours Usage Per Month, Add 2,921.94		
01 22 23 00-0641	DAY		80.0 KW, 60 Hertz Towable Diesel Powered Generator Set 486.99 Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour. For >8 To 16 Hours Usage Per Day, Add 243.50 For >16 To 24 Hours Usage Per Day, Add 486.99		
01 22 23 00-0642	WK		80.0 KW, 60 Hertz Towable Diesel Powered Generator Set 1,298.64 Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour. For >40 To 80 Hours Usage Per Week, Add 649.32 For >80 Hours Usage Per Week, Add 1,298.64		
01 22 23 00-0643	MO		80.0 KW, 60 Hertz Towable Diesel Powered Generator Set 3,246.60 Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour. For >160 To 320 Hours Usage Per Month, Add 1,623.30 For >320 Hours Usage Per Month, Add 3,246.60		
01 22 23 00-0644	DAY		100.0 KW, 60 Hertz Towable Diesel Powered Generator Set 503.22 Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour. For >8 To 16 Hours Usage Per Day, Add 251.61 For >16 To 24 Hours Usage Per Day, Add 503.22		
01 22 23 00-0645	WK		100.0 KW, 60 Hertz Towable Diesel Powered Generator Set 1,352.75 Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour. For >40 To 80 Hours Usage Per Week, Add 676.38 For >80 Hours Usage Per Week, Add 1,352.75		
01 22 23 00-0646	MO		100.0 KW, 60 Hertz Towable Diesel Powered Generator Set 3,679.48 Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour. For >160 To 320 Hours Usage Per Month, Add 1,839.74 For >320 Hours Usage Per Month, Add 3,679.48		
01 22 23 00-0647	DAY		120.0 KW, 60 Hertz Towable Diesel Powered Generator Set 568.16 Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour. For >8 To 16 Hours Usage Per Day, Add 284.08 For >16 To 24 Hours Usage Per Day, Add 568.16		
01 22 23 00-0648	WK		120.0 KW, 60 Hertz Towable Diesel Powered Generator Set 1,569.19 Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour. For >40 To 80 Hours Usage Per Week, Add 784.60 For >80 Hours Usage Per Week, Add 1,569.19		
01 22 23 00-0649	MO		120.0 KW, 60 Hertz Towable Diesel Powered Generator Set 4,220.58 Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour. For >160 To 320 Hours Usage Per Month, Add 2,110.29 For >320 Hours Usage Per Month, Add 4,220.58		
01 22 23 00-0650	DAY		140.0 KW, 60 Hertz Towable Diesel Powered Generator Set 595.21 Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour. For >8 To 16 Hours Usage Per Day, Add 297.61 For >16 To 24 Hours Usage Per Day, Add 595.21		
01 22 23 00-0651	WK		140.0 KW, 60 Hertz Towable Diesel Powered Generator Set 1,650.36 Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour. For >40 To 80 Hours Usage Per Week, Add 825.18 For >80 Hours Usage Per Week, Add 1,650.36		
01 22 23 00-0652	MO		140.0 KW, 60 Hertz Towable Diesel Powered Generator Set 4,653.46 Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour. For >160 To 320 Hours Usage Per Month, Add 2,326.73 For >320 Hours Usage Per Month, Add 4,653.46		
01 22 23 00-0653	DAY		150.0 KW, 60 Hertz Towable Diesel Powered Generator Set 622.26 Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour. For >8 To 16 Hours Usage Per Day, Add 311.13 For >16 To 24 Hours Usage Per Day, Add 622.26		
01 22 23 00-0654	WK		150.0 KW, 60 Hertz Towable Diesel Powered Generator Set 1,785.63 Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour. For >40 To 80 Hours Usage Per Week, Add 892.82 For >80 Hours Usage Per Week, Add 1,785.63		
01 22 23 00-0655	MO		150.0 KW, 60 Hertz Towable Diesel Powered Generator Set 4,869.90 Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour. For >160 To 320 Hours Usage Per Month, Add 2,434.95 For >320 Hours Usage Per Month, Add 4,869.90		

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01 22 23 00-0656	DAY	160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	649.32	
		Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.		
		For >8 To 16 Hours Usage Per Day, Add	324.66	
		For >16 To 24 Hours Usage Per Day, Add	649.32	
01 22 23 00-0657	WK	160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,893.85	
		Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.		
		For >40 To 80 Hours Usage Per Week, Add	946.93	
		For >80 Hours Usage Per Week, Add	1,893.85	
01 22 23 00-0658	MO	160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	5,086.34	
		Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.		
		For >160 To 320 Hours Usage Per Month, Add	2,543.17	
		For >320 Hours Usage Per Month, Add	5,086.34	
01 22 23 00-0659	DAY	175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	649.32	
		Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.		
		For >8 To 16 Hours Usage Per Day, Add	324.66	
		For >16 To 24 Hours Usage Per Day, Add	649.32	
01 22 23 00-0660	WK	175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,893.85	
		Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.		
		For >40 To 80 Hours Usage Per Week, Add	946.93	
		For >80 Hours Usage Per Week, Add	1,893.85	
01 22 23 00-0661	MO	175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	5,086.34	
		Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.		
		For >160 To 320 Hours Usage Per Month, Add	2,543.17	
		For >320 Hours Usage Per Month, Add	5,086.34	
01 22 23 00-0662	DAY	200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	892.82	
		Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.		
		For >8 To 16 Hours Usage Per Day, Add	446.41	
		For >16 To 24 Hours Usage Per Day, Add	892.82	
01 22 23 00-0663	WK	200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,218.51	
		Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.		
		For >40 To 80 Hours Usage Per Week, Add	1,109.26	
		For >80 Hours Usage Per Week, Add	2,218.51	
01 22 23 00-0664	MO	200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	6,493.20	
		Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.		
		For >160 To 320 Hours Usage Per Month, Add	3,246.60	
		For >320 Hours Usage Per Month, Add	6,493.20	
01 22 23 00-0665	DAY	250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	946.92	
		Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.		
		For >8 To 16 Hours Usage Per Day, Add	473.46	
		For >16 To 24 Hours Usage Per Day, Add	946.92	
01 22 23 00-0666	WK	250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,272.62	
		Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.		
		For >40 To 80 Hours Usage Per Week, Add	1,136.31	
		For >80 Hours Usage Per Week, Add	2,272.62	
01 22 23 00-0667	MO	250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	6,709.64	
		Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.		
		For >160 To 320 Hours Usage Per Month, Add	3,354.82	
		For >320 Hours Usage Per Month, Add	6,709.64	
01 22 23 00-0668	DAY	275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,001.04	
		Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.		
		For >8 To 16 Hours Usage Per Day, Add	500.52	
		For >16 To 24 Hours Usage Per Day, Add	1,001.04	
01 22 23 00-0669	WK	275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,326.73	
		Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.		
		For >40 To 80 Hours Usage Per Week, Add	1,163.37	
		For >80 Hours Usage Per Week, Add	2,326.73	
01 22 23 00-0670	MO	275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	6,926.08	
		Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.		
		For >160 To 320 Hours Usage Per Month, Add	3,463.04	
		For >320 Hours Usage Per Month, Add	6,926.08	
01 22 23 00-0671	DAY	300.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,033.50	
		Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour.		
		For >8 To 16 Hours Usage Per Day, Add	516.75	
		For >16 To 24 Hours Usage Per Day, Add	1,033.50	
01 22 23 00-0672	WK	300.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,489.06	
		Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour.		
		For >40 To 80 Hours Usage Per Week, Add	1,244.53	
		For >80 Hours Usage Per Week, Add	2,489.06	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0673	MO	300.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour. For >160 To 320 Hours Usage Per Month, Add For >320 Hours Usage Per Month, Add	7,358.96 3,679.48 7,358.96	
01 22 23 00-0674	DAY	350.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour. For >8 To 16 Hours Usage Per Day, Add For >16 To 24 Hours Usage Per Day, Add	1,082.20 541.10 1,082.20	
01 22 23 00-0675	WK	350.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour. For >40 To 80 Hours Usage Per Week, Add For >80 Hours Usage Per Week, Add	2,813.72 1,406.86 2,813.72	
01 22 23 00-0676	MO	350.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour. For >160 To 320 Hours Usage Per Month, Add For >320 Hours Usage Per Month, Add	8,116.50 4,058.25 8,116.50	
01 22 23 00-0677	DAY	400.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour. For >8 To 16 Hours Usage Per Day, Add For >16 To 24 Hours Usage Per Day, Add	1,523.92 761.96 1,523.92	
01 22 23 00-0678	WK	400.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour. For >40 To 80 Hours Usage Per Week, Add For >80 Hours Usage Per Week, Add	3,940.06 1,970.03 3,940.06	
01 22 23 00-0679	MO	400.0 KW, 60 Hertz Towable Diesel Powered Generator Set Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour. For >160 To 320 Hours Usage Per Month, Add For >320 Hours Usage Per Month, Add	10,420.00 5,210.00 10,420.00	
01 22 23 00-0680	DAY	500.0 KW, 60 Hertz Container Diesel Powered Generator Set Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour. For >8 To 16 Hours Usage Per Day, Add For >16 To 24 Hours Usage Per Day, Add	1,953.75 976.88 1,953.75	
01 22 23 00-0681	WK	500.0 KW, 60 Hertz Container Diesel Powered Generator Set Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour. For >40 To 80 Hours Usage Per Week, Add For >80 Hours Usage Per Week, Add	5,079.75 2,539.88 5,079.75	
01 22 23 00-0682	MO	500.0 KW, 60 Hertz Container Diesel Powered Generator Set Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour. For >160 To 320 Hours Usage Per Month, Add For >320 Hours Usage Per Month, Add	11,722.50 5,861.25 11,722.50	
01 22 23 00-0683	DAY	640.0 KW, 60 Hertz Container Diesel Powered Generator Set Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour. For >8 To 16 Hours Usage Per Day, Add For >16 To 24 Hours Usage Per Day, Add	2,416.14 1,208.07 2,416.14	
01 22 23 00-0684	WK	640.0 KW, 60 Hertz Container Diesel Powered Generator Set Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour. For >40 To 80 Hours Usage Per Week, Add For >80 Hours Usage Per Week, Add	6,382.25 3,191.13 6,382.25	
01 22 23 00-0685	MO	640.0 KW, 60 Hertz Container Diesel Powered Generator Set Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour. For >160 To 320 Hours Usage Per Month, Add For >320 Hours Usage Per Month, Add	15,630.00 7,815.00 15,630.00	
01 22 23 00-0686	DAY	750.0 KW, 60 Hertz Container Diesel Powered Generator Set Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour. For >8 To 16 Hours Usage Per Day, Add For >16 To 24 Hours Usage Per Day, Add	2,611.51 1,305.76 2,611.51	
01 22 23 00-0687	WK	750.0 KW, 60 Hertz Container Diesel Powered Generator Set Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour. For >40 To 80 Hours Usage Per Week, Add For >80 Hours Usage Per Week, Add	6,017.55 3,008.78 6,017.55	
01 22 23 00-0688	MO	750.0 KW, 60 Hertz Container Diesel Powered Generator Set Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour. For >160 To 320 Hours Usage Per Month, Add For >320 Hours Usage Per Month, Add	18,052.65 9,026.33 18,052.65	
01 22 23 00-0689	EA	Up To 300 KW Generator Set Delivery, Set-Up, Testing And Pick-up.....	865.11	
01 22 23 00-0690	EA	350 To 750 KW Generator Set Delivery, Set-Up, Testing And Pick-up	1,405.56	
01 22 23 00-0691		Cabling For Generator Sets (01 22 23 00-0611) Note: Includes delivery to job site and pick-up when complete.		

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01 22 23 00-0692 DAY #1 Banded Cable, 50' With Camlock Ends For Generator Set.....	23.81	
01 22 23 00-0693 WK #1 Banded Cable, 50' With Camlock Ends For Generator Set.....	41.66	
01 22 23 00-0694 MO #1 Banded Cable, 50' With Camlock Ends For Generator Set.....	124.99	
01 22 23 00-0695 DAY 50', 4/0 Cable With Camlock Ends For Generator Set.....	11.90	
01 22 23 00-0696 WK 50', 4/0 Cable With Camlock Ends For Generator Set.....	34.63	
01 22 23 00-0697 MO 50', 4/0 Cable With Camlock Ends For Generator Set.....	96.32	
01 22 23 00-0698 Generator Accessories (01 22 23 00-0611)		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0699 Step Down Transformer (01 22 23 00-0698)		
01 22 23 00-0700 WK 75 KVA, 480-208 Volt, Step Down Transformer	319.25	
01 22 23 00-0701 MO 75 KVA, 480-208 Volt, Step Down Transformer	892.82	
01 22 23 00-0702 WK 150 KVA, 480-208 Volt, Step Down Transformer	511.88	
01 22 23 00-0703 MO 150 KVA, 480-208 Volt, Step Down Transformer	1,534.56	
01 22 23 00-0704 WK 225 KVA, 480-208 Volt, Step Down Transformer	681.79	
01 22 23 00-0705 MO 225 KVA, 480-208 Volt, Step Down Transformer	2,045.36	
01 22 23 00-0706 WK 500 KVA, 480-208 Volt, Step Down Transformer	811.65	
01 22 23 00-0707 MO 500 KVA, 480-208 Volt, Step Down Transformer	2,434.95	
01 22 23 00-0708 WK 1,000 KVA, 4,160/480 Volt, Step Down Transformer.....	1,212.06	
01 22 23 00-0709 MO 1,000 KVA, 4,160/480 Volt, Step Down Transformer.....	3,619.96	
01 22 23 00-0710 WK 1,500 KVA, 4,160/480 Volt, Step Down Transformer.....	1,969.60	
01 22 23 00-0711 MO 1,500 KVA, 4,160/480 Volt, Step Down Transformer.....	5,903.40	
01 22 23 00-0712 WK 2,500 KVA, 480-13,800/4,160 Volt, Step Down Transformer.....	2,272.62	
01 22 23 00-0713 MO 2,500 KVA, 480-13,800/4,160 Volt, Step Down Transformer.....	6,817.86	
01 22 23 00-0714 Portable Panel (01 22 23 00-0698)		
01 22 23 00-0715 WK 100 Amperes, Portable Panel	254.32	
01 22 23 00-0716 MO 100 Amperes, Portable Panel	649.32	
01 22 23 00-0717 WK 200 Amperes, Portable Panel	304.10	
01 22 23 00-0718 MO 200 Amperes, Portable Panel	811.65	
01 22 23 00-0719 WK 400 Amperes, Portable Panel	324.66	
01 22 23 00-0720 MO 400 Amperes, Portable Panel	973.98	
01 22 23 00-0721 Portable Fusible Disconnect (01 22 23 00-0698)		
01 22 23 00-0722 WK 100 - 200 Amperes, Portable Fusible Disconnect.....	113.63	
01 22 23 00-0723 MO 100 - 200 Amperes, Portable Fusible Disconnect.....	340.89	
01 22 23 00-0724 WK 300 - 400 Amperes, Portable Fusible Disconnect.....	227.26	
01 22 23 00-0725 MO 300 - 400 Amperes, Portable Fusible Disconnect.....	681.79	
01 22 23 00-0726 Portable Transfer Switch (01 22 23 00-0698)		
01 22 23 00-0727 WK 100 Amperes, 480 Volt, Portable Transfer Switch	340.89	
01 22 23 00-0728 MO 100 Amperes, 480 Volt, Portable Transfer Switch	1,022.68	
01 22 23 00-0729 WK 200 Amperes, 480 Volt, Portable Transfer Switch	454.52	
01 22 23 00-0730 MO 200 Amperes, 480 Volt, Portable Transfer Switch	1,363.57	
01 22 23 00-0731 WK 400 Amperes, 480 Volt, Portable Transfer Switch	568.16	
01 22 23 00-0732 MO 400 Amperes, 480 Volt, Portable Transfer Switch	1,704.46	
01 22 23 00-0733 Resistive Loadbanks For Generator Sets (01 22 23 00-0611)		
Note: Includes delivery to job site and pick-up when complete. See CSI section 01 22 23 00-0754 for reimbursable fuel fees.		
01 22 23 00-0734 DAY 100 KW A/C Resistive Loadbank.....	345.41	
01 22 23 00-0735 WK 100 KW A/C Resistive Loadbank.....	656.95	
01 22 23 00-0736 MO 100 KW A/C Resistive Loadbank.....	1,794.77	
01 22 23 00-0737 DAY 650 KW A/C Resistive Loadbank.....	665.25	
01 22 23 00-0738 WK 650 KW A/C Resistive Loadbank.....	1,779.04	
01 22 23 00-0739 MO 650 KW A/C Resistive Loadbank.....	4,535.78	
01 22 23 00-0740 Sub-Distribution Panels (Spider Box) For Generator Sets (01 22 23 00-0611)		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0741 DAY 50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box)	58.44	
01 22 23 00-0742 WK 50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box)	151.51	
01 22 23 00-0743 MO 50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box)	427.47	
01 22 23 00-0744 Portable Distribution Panels For Generator Sets (01 22 23 00-0611)		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0745 DAY 200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel	129.86	
01 22 23 00-0746 WK 200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel	351.72	
01 22 23 00-0747 MO 200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel	984.80	
01 22 23 00-0748 DAY 100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	106.06	
01 22 23 00-0749 WK 100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	275.96	
01 22 23 00-0750 MO 100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	784.60	
01 22 23 00-0751 DAY 200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	135.28	
01 22 23 00-0752 WK 200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	340.89	



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01 22 23 00-0753 MO 200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel	925.28	
01 22 23 00-0754 Fuel Reimbursement For Generators (01 22 23 00-0611)		
01 22 23 00-0755 EA Fuel Reimbursement For Generators	1.00	
Note: Purchases made by the contractor for fuel will be reimbursed to the Contractor at the actual cost of the purchase, without mark-up, for which a receipt or bill is received. The Adjustment Factor applied to Reimbursable Fees will be 1.0000. The base cost of the purchase is \$1.00, quantity will adjust cost to actual purchase cost; i.e., quantity of 125 = \$125.00 purchase. If there are multiple purchases, each one shall be listed separately with a comment in the "note" block to identify the purchase.		
01 22 23 00-0756 Portable Floor Drying Fans (01 22 23 00-0596)		
Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0757 DAY 2,250 CFM Portable Floor Drying Fan	16.39	
01 22 23 00-0758 WK 2,250 CFM Portable Floor Drying Fan	75.81	
01 22 23 00-0759 MO 2,250 CFM Portable Floor Drying Fan	250.98	
01 22 23 00-0760 Welding Machines (01 22 23 00-0596)		
Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0761 CC/CV Inverter Welder (01 22 23 00-0760)		
Note: Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0754 for reimbursable fuel fees.		
01 22 23 00-0762 DAY 250 Amperes, CC Inverter Welder	41.45	
01 22 23 00-0763 WK 250 Amperes, CC Inverter Welder	90.30	
01 22 23 00-0764 MO 250 Amperes, CC Inverter Welder	273.86	
01 22 23 00-0765 DAY 300 Amperes, CC/CV Inverter Welder	47.37	
01 22 23 00-0766 WK 300 Amperes, CC/CV Inverter Welder	125.83	
01 22 23 00-0767 MO 300 Amperes, CC/CV Inverter Welder	333.07	
01 22 23 00-0768 DAY 350 Amperes, CC/CV Inverter Welder	48.85	
01 22 23 00-0769 WK 350 Amperes, CC/CV Inverter Welder	128.79	
01 22 23 00-0770 MO 350 Amperes, CC/CV Inverter Welder	362.67	
01 22 23 00-0771 MIG Welder (01 22 23 00-0760)		
Note: Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0754 for reimbursable fuel fees.		
01 22 23 00-0772 DAY 115 Volt MIG Welder	71.05	
01 22 23 00-0773 WK 115 Volt MIG Welder	185.04	
01 22 23 00-0774 MO 115 Volt MIG Welder	503.30	
01 22 23 00-0775 Diesel Powered Towable Welding Machines (01 22 23 00-0760)		
Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0776 DAY 250 To 299 Amperes, Diesel Powered Towable Welding Machine	133.23	
01 22 23 00-0777 WK 250 To 299 Amperes, Diesel Powered Towable Welding Machine	325.67	
01 22 23 00-0778 MO 250 To 299 Amperes, Diesel Powered Towable Welding Machine	777.16	
01 22 23 00-0779 DAY 300 To 349 Amperes, Diesel Powered Towable Welding Machine	177.64	
01 22 23 00-0780 WK 300 To 349 Amperes, Diesel Powered Towable Welding Machine	347.87	
01 22 23 00-0781 MO 300 To 349 Amperes, Diesel Powered Towable Welding Machine	812.68	
01 22 23 00-0782 DAY 350 To 399 Amperes, Diesel Powered Towable Welding Machine	185.04	
01 22 23 00-0783 WK 350 To 399 Amperes, Diesel Powered Towable Welding Machine	370.08	
01 22 23 00-0784 MO 350 To 399 Amperes, Diesel Powered Towable Welding Machine	902.98	
01 22 23 00-0785 General Equipment (01 22 23)		
01 22 23 00-0786 Jacks And Bracing (01 22 23 00-0785)		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0787 Manual Hydraulic Jacks (01 22 23 00-0786)		
01 22 23 00-0788 DAY 12 Ton Manual Hydraulic Bottle Jack	1.67	
01 22 23 00-0789 WK 12 Ton Manual Hydraulic Bottle Jack	7.93	
01 22 23 00-0790 MO 12 Ton Manual Hydraulic Bottle Jack	28.50	
01 22 23 00-0791 DAY 20 Ton Manual Hydraulic Bottle Jack	2.92	
01 22 23 00-0792 WK 20 Ton Manual Hydraulic Bottle Jack	9.18	
01 22 23 00-0793 MO 20 Ton Manual Hydraulic Bottle Jack	34.76	
01 22 23 00-0794 DAY 50 Ton Manual Hydraulic Bottle Jack	10.43	
01 22 23 00-0795 WK 50 Ton Manual Hydraulic Bottle Jack	40.49	
01 22 23 00-0796 MO 50 Ton Manual Hydraulic Bottle Jack	145.66	
01 22 23 00-0797 DAY 100 Ton Manual Hydraulic Bottle Jack	14.61	
01 22 23 00-0798 WK 100 Ton Manual Hydraulic Bottle Jack	58.43	
01 22 23 00-0799 MO 100 Ton Manual Hydraulic Bottle Jack	210.46	
01 22 23 00-0800 Manual Screw Jacks (01 22 23 00-0786)		
01 22 23 00-0801 DAY 10 To 20 Ton Manual Screw Jack	26.41	
01 22 23 00-0802 WK 10 To 20 Ton Manual Screw Jack	71.09	
01 22 23 00-0803 MO 10 To 20 Ton Manual Screw Jack	197.03	

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01 22 23 00-0804 Pressure Washers (01 22 23 00-0785) Note: Includes delivery to job site, pick-up when complete and full time operator.		
01 22 23 00-0805 DAY 2,000 PSI Pressure Washer With Full-Time Operator	851.13	
For Equipment Without Operator, Deduct	-681.38	
01 22 23 00-0806 WK 2,000 PSI Pressure Washer With Full-Time Operator	3,837.81	
For Equipment Without Operator, Deduct	-3,406.90	
01 22 23 00-0807 MO 2,000 PSI Pressure Washer With Full-Time Operator	15,860.12	
For Equipment Without Operator, Deduct	-14,763.25	
01 22 23 00-0808 DAY 2,500 PSI Pressure Washer With Full-Time Operator	851.13	
For Equipment Without Operator, Deduct	-681.38	
01 22 23 00-0809 WK 2,500 PSI Pressure Washer With Full-Time Operator	3,837.81	
For Equipment Without Operator, Deduct	-3,406.90	
01 22 23 00-0810 MO 2,500 PSI Pressure Washer With Full-Time Operator	15,860.12	
For Equipment Without Operator, Deduct	-14,763.25	
01 22 23 00-0811 DAY 3,000 PSI Pressure Washer With Full-Time Operator	851.13	
For Equipment Without Operator, Deduct	-681.38	
01 22 23 00-0812 WK 3,000 PSI Pressure Washer With Full-Time Operator	3,837.81	
For Equipment Without Operator, Deduct	-3,406.90	
01 22 23 00-0813 MO 3,000 PSI Pressure Washer With Full-Time Operator	15,860.12	
For Equipment Without Operator, Deduct	-14,763.25	
01 22 23 00-0814 DAY 3,500 PSI Pressure Washer With Full-Time Operator	864.19	
For Equipment Without Operator, Deduct	-681.38	
01 22 23 00-0815 WK 3,500 PSI Pressure Washer With Full-Time Operator	3,876.99	
For Equipment Without Operator, Deduct	-3,406.90	
01 22 23 00-0816 MO 3,500 PSI Pressure Washer With Full-Time Operator	15,964.59	
For Equipment Without Operator, Deduct	-14,763.25	
01 22 23 00-0817 DAY 4,000 PSI Pressure Washer With Full-Time Operator	916.42	
For Equipment Without Operator, Deduct	-681.38	
01 22 23 00-0818 WK 4,000 PSI Pressure Washer With Full-Time Operator	4,046.74	
For Equipment Without Operator, Deduct	-3,406.90	
01 22 23 00-0819 MO 4,000 PSI Pressure Washer With Full-Time Operator	16,552.20	
For Equipment Without Operator, Deduct	-14,763.25	
01 22 23 00-0820 DAY 5,000 PSI Pressure Washer With Full-Time Operator	942.54	
For Equipment Without Operator, Deduct	-681.38	
01 22 23 00-0821 WK 5,000 PSI Pressure Washer With Full-Time Operator	4,112.03	
For Equipment Without Operator, Deduct	-3,406.90	
01 22 23 00-0822 MO 5,000 PSI Pressure Washer With Full-Time Operator	16,748.07	
For Equipment Without Operator, Deduct	-14,763.25	
01 22 23 00-0823 Confined Space Entry Equipment (01 22 23 00-0785) Note: Includes delivery to job site, set-up, and pick-up when complete.		
01 22 23 00-0824 DAY Ventilation Equipment For Confined Space	41.11	
Note: Includes electric or gas blower and ventilation duct up to 25'.		
01 22 23 00-0825 WK Ventilation Equipment For Confined Space	123.32	
Note: Includes electric or gas blower and ventilation duct up to 25'.		
01 22 23 00-0826 MO Ventilation Equipment For Confined Space	367.99	
Note: Includes electric or gas blower and ventilation duct up to 25'.		
01 22 23 00-0827 DAY Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	61.77	
01 22 23 00-0828 WK Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	185.32	
01 22 23 00-0829 MO Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly	555.96	
01 22 23 00-0830 DAY Confined Space Air Monitor Personnel	799.10	
Note: Per person day.		
01 22 23 00-0831 Mowers (01 22 23 00-0785) Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0832 DAY 21" Walk Behind Lawn Mower	90.36	
01 22 23 00-0833 WK 21" Walk Behind Lawn Mower	259.78	
01 22 23 00-0834 MO 21" Walk Behind Lawn Mower	530.86	
01 22 23 00-0835 DAY 32" Walk Behind Lawn Mower	112.95	
01 22 23 00-0836 WK 32" Walk Behind Lawn Mower	271.08	
01 22 23 00-0837 MO 32" Walk Behind Lawn Mower	564.75	
01 22 23 00-0838 DAY 36" To 48" Walk Behind Deck Mower	203.31	
01 22 23 00-0839 WK 36" To 48" Walk Behind Deck Mower	564.75	
01 22 23 00-0840 MO 36" To 48" Walk Behind Deck Mower	1,637.78	
01 22 23 00-0841 DAY 61" To 72" Walk Behind Deck Mower	203.31	
01 22 23 00-0842 WK 61" To 72" Walk Behind Deck Mower	564.75	
01 22 23 00-0843 MO 61" To 72" Walk Behind Deck Mower	1,637.78	
01 22 23 00-0844 Material Handling Equipment (01 22 23) 01 22 23 00-0845 Truck Mounted Hydraulic Cranes (01 22 23 00-0844) Note: Includes full-time operator, delivery, set-up, rigging, and removal time in rental period. Excludes lattice boom extension.		
01 22 23 00-0846 DAY 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,304.11	
For Equipment Without Operator, Deduct	-864.46	
01 22 23 00-0847 WK 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	5,654.21	
For Equipment Without Operator, Deduct	-4,322.32	
01 22 23 00-0848 MO 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	22,738.65	
For Equipment Without Operator, Deduct	-18,730.04	



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01 22 23 00-0849	DAY	8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,420.49	
		For Equipment Without Operator, Deduct	-864.46	
01 22 23 00-0850	WK	8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	6,000.12	
		For Equipment Without Operator, Deduct	-4,322.32	
01 22 23 00-0851	MO	8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	23,773.13	
		For Equipment Without Operator, Deduct	-18,730.04	
01 22 23 00-0852	DAY	14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,536.87	
		For Equipment Without Operator, Deduct	-864.46	
01 22 23 00-0853	WK	14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	6,346.02	
		For Equipment Without Operator, Deduct	-4,322.32	
01 22 23 00-0854	MO	14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	24,807.61	
		For Equipment Without Operator, Deduct	-18,730.04	
01 22 23 00-0855	DAY	20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,692.04	
		For Equipment Without Operator, Deduct	-864.46	
01 22 23 00-0856	WK	20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	6,811.54	
		For Equipment Without Operator, Deduct	-4,322.32	
01 22 23 00-0857	MO	20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	26,197.69	
		For Equipment Without Operator, Deduct	-18,730.04	
01 22 23 00-0858	DAY	30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	1,834.28	
		For Equipment Without Operator, Deduct	-864.46	
01 22 23 00-0859	WK	30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	7,774.90	
		For Equipment Without Operator, Deduct	-4,322.32	
01 22 23 00-0860	MO	30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	29,085.18	
		For Equipment Without Operator, Deduct	-18,730.04	
01 22 23 00-0861	DAY	40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	2,170.49	
		For Equipment Without Operator, Deduct	-864.46	
01 22 23 00-0862	WK	40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	8,977.48	
		For Equipment Without Operator, Deduct	-4,322.32	
01 22 23 00-0863	MO	40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	32,695.52	
		For Equipment Without Operator, Deduct	-18,730.04	
01 22 23 00-0864	DAY	50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	2,383.85	
		For Equipment Without Operator, Deduct	-864.46	
01 22 23 00-0865	WK	50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	9,727.48	
		For Equipment Without Operator, Deduct	-4,322.32	
01 22 23 00-0866	MO	50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	34,950.69	
		For Equipment Without Operator, Deduct	-18,730.04	
01 22 23 00-0867	DAY	60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	2,551.96	
		For Equipment Without Operator, Deduct	-864.46	
01 22 23 00-0868	WK	60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	10,335.24	
		For Equipment Without Operator, Deduct	-4,322.32	
01 22 23 00-0869	MO	60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	36,771.37	
		For Equipment Without Operator, Deduct	-18,730.04	
01 22 23 00-0870	DAY	70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	2,720.06	
		For Equipment Without Operator, Deduct	-864.46	
01 22 23 00-0871	WK	70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	10,942.99	
		For Equipment Without Operator, Deduct	-4,322.32	
01 22 23 00-0872	MO	70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	38,592.06	
		For Equipment Without Operator, Deduct	-18,730.04	
01 22 23 00-0873	DAY	85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	2,829.97	
		For Equipment Without Operator, Deduct	-864.46	
01 22 23 00-0874	WK	85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	11,317.99	
		For Equipment Without Operator, Deduct	-4,322.32	
01 22 23 00-0875	MO	85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	39,729.98	
		For Equipment Without Operator, Deduct	-18,730.04	
01 22 23 00-0876	DAY	100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	2,978.68	
		For Equipment Without Operator, Deduct	-864.46	
01 22 23 00-0877	WK	100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	11,874.02	
		For Equipment Without Operator, Deduct	-4,322.32	
01 22 23 00-0878	MO	100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	41,385.15	
		For Equipment Without Operator, Deduct	-18,730.04	
01 22 23 00-0879	DAY	120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	3,457.13	
		For Equipment Without Operator, Deduct	-864.46	
		For Half Day Usage, Deduct	-1,037.07	
01 22 23 00-0880	WK	120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	13,396.65	
		For Equipment Without Operator, Deduct	-4,322.32	
01 22 23 00-0881	MO	120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	45,953.03	
		For Equipment Without Operator, Deduct	-18,730.04	
01 22 23 00-0882	DAY	140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	3,786.87	
		For Equipment Without Operator, Deduct	-864.46	
		For Half Day Usage, Deduct	-1,168.96	
01 22 23 00-0883	WK	140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	14,550.74	
		For Equipment Without Operator, Deduct	-4,322.32	
01 22 23 00-0884	MO	140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	49,415.30	
		For Equipment Without Operator, Deduct	-18,730.04	
01 22 23 00-0885	DAY	175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	4,381.69	
		For Equipment Without Operator, Deduct	-864.46	
		For Half Day Usage, Deduct	-1,406.89	
01 22 23 00-0886	WK	175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	16,632.63	
		For Equipment Without Operator, Deduct	-4,322.32	
01 22 23 00-0887	MO	175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	55,660.98	
		For Equipment Without Operator, Deduct	-18,730.04	
01 22 23 00-0888	DAY	200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator	4,795.48	
		For Equipment Without Operator, Deduct	-864.46	
		For Half Day Usage, Deduct	-1,572.41	

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01 22 23 00-0889	WK	200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	18,080.90 -4,322.32	
01 22 23 00-0890	MO	200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	60,005.79 -18,730.04	
01 22 23 00-0891 Cable Controlled Lattice Boom, Mechanical Cranes (01 22 23 00-0844)				
Note: Includes full-time operator. Excludes delivery, set-up, and removal. See CSI section 01 71 13 00-0004 for lattice crane delivery.				
01 22 23 00-0892	DAY	75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,416.18 -864.46	
01 22 23 00-0893	WK	75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	9,856.79 -4,322.32	
01 22 23 00-0894	MO	75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	35,333.44 -18,730.04	
01 22 23 00-0895	DAY	100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,612.30 -864.46	
01 22 23 00-0896	WK	100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	11,848.16 -4,322.32	
01 22 23 00-0897	MO	100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	41,307.57 -18,730.04	
01 22 23 00-0898	DAY	125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,806.26 -864.46	
01 22 23 00-0899	WK	125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	13,264.11 -4,322.32	
01 22 23 00-0900	MO	125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	45,554.11 -18,730.04	
01 22 23 00-0901	DAY	150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	4,194.19 -864.46	
01 22 23 00-0902	WK	150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	14,680.05 -4,322.32	
01 22 23 00-0903	MO	150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	49,795.47 -18,730.04	
01 22 23 00-0904	DAY	200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	4,378.46 -864.46	
01 22 23 00-0905	WK	200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	16,096.00 -4,322.32	
01 22 23 00-0906	MO	200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	54,047.19 -18,730.04	
01 22 23 00-0907	DAY	250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	4,562.73 -864.46	
01 22 23 00-0908	WK	250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	17,511.94 -4,322.32	
01 22 23 00-0909	MO	250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	58,298.90 -18,730.04	
01 22 23 00-0910	DAY	300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,170.48 -864.46	
01 22 23 00-0911	WK	300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	19,690.81 -4,322.32	
01 22 23 00-0912	MO	300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	64,826.47 -18,730.04	
01 22 23 00-0913	DAY	500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	8,907.54 -864.46	
01 22 23 00-0914	WK	500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	33,009.74 -4,322.32	
01 22 23 00-0915	MO	500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	104,798.78 -18,730.04	
01 22 23 00-0916 Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklifts (01 22 23 00-0844)				
Note: Includes full-time operator. Excludes delivery, set-up, and removal.				
01 22 23 00-0917	DAY	5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,439.82 -799.10	
01 22 23 00-0918	WK	5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,563.58 -3,995.51	
01 22 23 00-0919	MO	5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	20,686.09 -17,313.89	
01 22 23 00-0920	DAY	6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,507.26 -799.10	
01 22 23 00-0921	WK	6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,715.33 -3,995.51	
01 22 23 00-0922	MO	6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	21,023.31 -17,313.89	
01 22 23 00-0923	DAY	8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,490.40 -799.10	
01 22 23 00-0924	WK	8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	5,791.21 -3,995.51	



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01 22 23 00-0925	MO	8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	21,529.14	
		For Equipment Without Operator, Deduct	-17,313.89	
01 22 23 00-0926	DAY	10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	1,684.30	
		For Equipment Without Operator, Deduct	-799.10	
01 22 23 00-0927	WK	10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	6,297.04	
		For Equipment Without Operator, Deduct	-3,995.51	
01 22 23 00-0928	MO	10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator	22,709.41	
		For Equipment Without Operator, Deduct	-17,313.89	
01 22 23 00-0929 Straight Mast, Rough Terrain Construction Forklifts (01 22 23 00-0844)				
Note: Includes full-time operator. Excludes delivery, set-up, and removal.				
01 22 23 00-0930	DAY	5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	1,215.57	
		For Equipment Without Operator, Deduct	-799.10	
		For Propane Instead Of Gas Or Diesel, Add	83.29	
01 22 23 00-0931	WK	5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	5,132.78	
		For Equipment Without Operator, Deduct	-3,995.51	
		For Propane Instead Of Gas Or Diesel, Add	227.45	
01 22 23 00-0932	MO	5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	19,916.81	
		For Equipment Without Operator, Deduct	-17,313.89	
		For Propane Instead Of Gas Or Diesel, Add	520.58	
01 22 23 00-0933	DAY	6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	1,237.49	
		For Equipment Without Operator, Deduct	-799.10	
		For Propane Instead Of Gas Or Diesel, Add	87.68	
01 22 23 00-0934	WK	6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	5,192.64	
		For Equipment Without Operator, Deduct	-3,995.51	
		For Propane Instead Of Gas Or Diesel, Add	239.43	
01 22 23 00-0935	MO	6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	20,053.80	
		For Equipment Without Operator, Deduct	-17,313.89	
		For Propane Instead Of Gas Or Diesel, Add	547.98	
01 22 23 00-0936	DAY	8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	1,355.51	
		For Equipment Without Operator, Deduct	-799.10	
		For Propane Instead Of Gas Or Diesel, Add	111.28	
01 22 23 00-0937	WK	8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	5,521.43	
		For Equipment Without Operator, Deduct	-3,995.51	
		For Propane Instead Of Gas Or Diesel, Add	305.18	
01 22 23 00-0938	MO	8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	20,812.55	
		For Equipment Without Operator, Deduct	-17,313.89	
		For Propane Instead Of Gas Or Diesel, Add	699.73	
01 22 23 00-0939	DAY	10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	1,420.51	
		For Equipment Without Operator, Deduct	-799.10	
		For Propane Instead Of Gas Or Diesel, Add	124.28	
01 22 23 00-0940	WK	10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	5,493.27	
		For Equipment Without Operator, Deduct	-3,995.51	
		For Propane Instead Of Gas Or Diesel, Add	299.55	
01 22 23 00-0941	MO	10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator	21,042.36	
		For Equipment Without Operator, Deduct	-17,313.89	
		For Propane Instead Of Gas Or Diesel, Add	745.69	
01 22 23 00-0942 Straight Mast, Industrial Warehouse Forklifts (01 22 23 00-0844)				
Note: Includes full-time operator. Excludes delivery, set-up, and removal.				
01 22 23 00-0943	DAY	5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	1,153.18	
		For Equipment Without Operator, Deduct	-799.10	
		For Propane Instead Of Gas Or Diesel, Add	70.82	
01 22 23 00-0944	WK	5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	4,804.84	
		For Equipment Without Operator, Deduct	-3,995.51	
		For Propane Instead Of Gas Or Diesel, Add	161.87	
01 22 23 00-0945	MO	5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	19,252.91	
		For Equipment Without Operator, Deduct	-17,313.89	
		For Propane Instead Of Gas Or Diesel, Add	387.80	
01 22 23 00-0946	DAY	6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	1,161.61	
		For Equipment Without Operator, Deduct	-799.10	
		For Propane Instead Of Gas Or Diesel, Add	72.50	
01 22 23 00-0947	WK	6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	4,830.13	
		For Equipment Without Operator, Deduct	-3,995.51	
		For Propane Instead Of Gas Or Diesel, Add	166.92	
01 22 23 00-0948	MO	6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	19,311.92	
		For Equipment Without Operator, Deduct	-17,313.89	
		For Propane Instead Of Gas Or Diesel, Add	399.61	
01 22 23 00-0949	DAY	8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	1,338.65	
		For Equipment Without Operator, Deduct	-799.10	
		For Propane Instead Of Gas Or Diesel, Add	107.91	
01 22 23 00-0950	WK	8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	5,217.93	
		For Equipment Without Operator, Deduct	-3,995.51	
		For Propane Instead Of Gas Or Diesel, Add	244.48	
01 22 23 00-0951	MO	8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	20,264.57	
		For Equipment Without Operator, Deduct	-17,313.89	
		For Propane Instead Of Gas Or Diesel, Add	590.14	
01 22 23 00-0952	DAY	12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	1,355.51	
		For Equipment Without Operator, Deduct	-799.10	
		For Propane Instead Of Gas Or Diesel, Add	111.28	
01 22 23 00-0953	WK	12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator	5,361.25	
		For Equipment Without Operator, Deduct	-3,995.51	
		For Propane Instead Of Gas Or Diesel, Add	273.15	

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01 22 23 00-0954 MO 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	20,770.39	
For Equipment Without Operator, Deduct	-17,313.89	
For Propane Instead Of Gas Or Diesel, Add	691.30	
01 22 23 00-0955 DAY 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	1,507.26	
For Equipment Without Operator, Deduct	-799.10	
For Propane Instead Of Gas Or Diesel, Add	141.63	
01 22 23 00-0956 WK 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	5,605.74	
For Equipment Without Operator, Deduct	-3,995.51	
For Propane Instead Of Gas Or Diesel, Add	322.05	
01 22 23 00-0957 MO 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	21,191.92	
For Equipment Without Operator, Deduct	-17,313.89	
For Propane Instead Of Gas Or Diesel, Add	775.61	
01 22 23 00-0958 Chain Hoists (01 22 23 00-0844)		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0959 DAY 1 Ton, 20' Lift, Manual Chain Hoist.....	12.52	
01 22 23 00-0960 WK 1 Ton, 20' Lift, Manual Chain Hoist.....	32.55	
01 22 23 00-0961 MO 1 Ton, 20' Lift, Manual Chain Hoist.....	96.40	
01 22 23 00-0962 DAY 3 Ton, 20' Lift, Manual Chain Hoist.....	35.06	
01 22 23 00-0963 WK 3 Ton, 20' Lift, Manual Chain Hoist.....	82.63	
01 22 23 00-0964 MO 3 Ton, 20' Lift, Manual Chain Hoist.....	231.62	
01 22 23 00-0965 DAY 5 Ton, 20' Lift, Manual Chain Hoist.....	45.07	
01 22 23 00-0966 WK 5 Ton, 20' Lift, Manual Chain Hoist.....	121.44	
01 22 23 00-0967 MO 5 Ton, 20' Lift, Manual Chain Hoist.....	338.04	
01 22 23 00-0968 DAY 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	88.89	
01 22 23 00-0969 WK 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	231.62	
01 22 23 00-0970 MO 2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	626.00	
01 22 23 00-0971 DAY 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	90.14	
01 22 23 00-0972 WK 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	241.01	
01 22 23 00-0973 MO 3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	657.30	
01 22 23 00-0974 DAY 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	92.65	
01 22 23 00-0975 WK 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	259.79	
01 22 23 00-0976 MO 5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist.....	719.90	
01 22 23 00-0977 Roof Swing Hoist (01 22 23 00-0844)		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0978 DAY Up To 400#, Manual Swing Roof Hoist.....	96.56	
01 22 23 00-0979 WK Up To 400#, Manual Swing Roof Hoist.....	337.98	
01 22 23 00-0980 MO Up To 400#, Manual Swing Roof Hoist.....	1,158.78	
01 22 23 00-0981 Truck Mounted Digger Derrick (01 22 23 00-0844)		
Note: Includes full-time operator, delivery, set-up, and removal time in rental period. Lifting capacity is reduced.		
01 22 23 00-0982 DAY Up To 47' Sheave Height, 34' Horizontal Reach, 12 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator.....	1,476.59	
Note: Includes lifting boom, grapple arm and auger drill.		
For Equipment Without Operator, Deduct	-864.46	
01 22 23 00-0983 WK Up To 47' Sheave Height, 34' Horizontal Reach, 12 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator.....	6,158.70	
Note: Includes lifting boom, grapple arm and auger drill.		
For Equipment Without Operator, Deduct	-4,322.32	
01 22 23 00-0984 MO Up To 47' Sheave Height, 34' Horizontal Reach, 12 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator.....	23,627.05	
Note: Includes lifting boom, grapple arm and auger drill.		
For Equipment Without Operator, Deduct	-18,730.04	
01 22 23 00-0985 DAY Up To 48' Sheave Height, 38' Horizontal Reach, 15 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator.....	1,602.40	
Note: Includes lifting boom, grapple arm and auger drill.		
For Equipment Without Operator, Deduct	-864.46	
01 22 23 00-0986 WK Up To 48' Sheave Height, 38' Horizontal Reach, 15 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator.....	6,536.15	
Note: Includes lifting boom, grapple arm and auger drill.		
For Equipment Without Operator, Deduct	-4,322.32	
01 22 23 00-0987 MO Up To 48' Sheave Height, 38' Horizontal Reach, 15 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator.....	24,633.60	
Note: Includes lifting boom, grapple arm and auger drill.		
For Equipment Without Operator, Deduct	-18,730.04	
01 22 23 00-0988 DAY Up To 65' Sheave Height, 55' Horizontal Reach, 21 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator.....	2,379.88	
Note: Includes lifting boom, grapple arm and auger drill.		
For Equipment Without Operator, Deduct	-864.46	
01 22 23 00-0989 WK Up To 65' Sheave Height, 55' Horizontal Reach, 21 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator.....	8,868.59	
Note: Includes lifting boom, grapple arm and auger drill.		
For Equipment Without Operator, Deduct	-4,322.32	
01 22 23 00-0990 MO Up To 65' Sheave Height, 55' Horizontal Reach, 21 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator.....	30,853.43	
Note: Includes lifting boom, grapple arm and auger drill.		
For Equipment Without Operator, Deduct	-18,730.04	
01 22 23 00-0991 Pumping Equipment (01 22 23)		



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01 22 23 00-0992			Gas Powered Portable Centrifugal Pumps (01 22 23 00-0991) Note: Includes delivery, set-up, and removal. Excludes operator. See CSI section 01 22 23 00-1016 for larger diameter pumps.		
01 22 23 00-0993	DAY		8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	69.18	
01 22 23 00-0994	WK		8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	155.65	
01 22 23 00-0995	MO		8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	415.06	
01 22 23 00-0996	DAY		16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	83.01	
01 22 23 00-0997	WK		16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	186.78	
01 22 23 00-0998	MO		16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	498.07	
01 22 23 00-0999			Gas Powered Portable Diaphragm Pumps (01 22 23 00-0991) Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1000	DAY		3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	79.55	
01 22 23 00-1001	WK		3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	224.82	
01 22 23 00-1002	MO		3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	570.70	
01 22 23 00-1003	DAY		5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	96.85	
01 22 23 00-1004	WK		5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	259.41	
01 22 23 00-1005	MO		5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	735.00	
01 22 23 00-1006			Gas Powered Portable Trash Pumps (01 22 23 00-0991) Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1007	DAY		12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump	100.31	
01 22 23 00-1008	WK		12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump	207.53	
01 22 23 00-1009	MO		12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump	622.58	
01 22 23 00-1010	DAY		25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump	100.31	
01 22 23 00-1011	WK		25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump	268.06	
01 22 23 00-1012	MO		25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump	735.00	
01 22 23 00-1013	DAY		35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump	159.10	
01 22 23 00-1014	WK		35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump	449.64	
01 22 23 00-1015	MO		35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump	1,305.70	
01 22 23 00-1016			Diesel Powered Portable Trash Pumps (01 22 23 00-0991) Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1017	DAY		63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	311.29	
01 22 23 00-1018	WK		63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	847.41	
01 22 23 00-1019	MO		63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	3,692.27	
01 22 23 00-1020	DAY		156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	475.58	
01 22 23 00-1021	WK		156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	1,245.17	
01 22 23 00-1022	MO		156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	3,311.80	
01 22 23 00-1023	DAY		246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	646.80	
01 22 23 00-1024	WK		246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	1,731.13	
01 22 23 00-1025	MO		246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	4,631.33	
01 22 23 00-1026	DAY		379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	837.03	
01 22 23 00-1027	WK		379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	2,137.54	
01 22 23 00-1028	MO		379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	6,277.72	
01 22 23 00-1029			Diesel Powered Portable Silenced Environmental Trash Pumps (01 22 23 00-0991) Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1030	DAY		90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	444.46	
01 22 23 00-1031	WK		90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	1,011.70	
01 22 23 00-1032	MO		90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	3,154.43	
01 22 23 00-1033	DAY		136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	544.76	
01 22 23 00-1034	WK		136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	1,357.58	
01 22 23 00-1035	MO		136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	3,692.27	
01 22 23 00-1036	DAY		246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	657.17	
01 22 23 00-1037	WK		246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	1,943.85	
01 22 23 00-1038	MO		246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	5,421.67	
01 22 23 00-1039	DAY		510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	989.22	
01 22 23 00-1040	WK		510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	2,526.65	
01 22 23 00-1041	MO		510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	7,419.13	
01 22 23 00-1042			3 Phase Electric Submersible Pumps (01 22 23 00-0991) Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1043	DAY		24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	172.94	
01 22 23 00-1044	WK		24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	432.35	
01 22 23 00-1045	MO		24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	1,297.05	
01 22 23 00-1046	DAY		49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	228.28	
01 22 23 00-1047	WK		49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	570.70	
01 22 23 00-1048	MO		49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	1,712.11	

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01 22 23 00-1049 Suction Hose With Couplings (01 22 23 00-0991)		
Note: Includes delivery, set-up, and removal.		
01 22 23 00-1050 DAY Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings	6.00	
01 22 23 00-1051 WK Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings	15.00	
01 22 23 00-1052 MO Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings	46.00	
01 22 23 00-1053 DAY 3" Inside Diameter, 20' Length, Suction Hose With Couplings	16.00	
01 22 23 00-1054 WK 3" Inside Diameter, 20' Length, Suction Hose With Couplings	41.00	
01 22 23 00-1055 MO 3" Inside Diameter, 20' Length, Suction Hose With Couplings	125.00	
01 22 23 00-1056 DAY 4" Inside Diameter, 20' Length, Suction Hose With Couplings	24.00	
01 22 23 00-1057 WK 4" Inside Diameter, 20' Length, Suction Hose With Couplings	61.00	
01 22 23 00-1058 MO 4" Inside Diameter, 20' Length, Suction Hose With Couplings	185.00	
01 22 23 00-1059 DAY 6" Inside Diameter, 20' Length, Suction Hose With Couplings	30.00	
01 22 23 00-1060 WK 6" Inside Diameter, 20' Length, Suction Hose With Couplings	75.00	
01 22 23 00-1061 MO 6" Inside Diameter, 20' Length, Suction Hose With Couplings	220.00	
01 22 23 00-1062 DAY 10" Inside Diameter, 20' Length, Suction Hose With Couplings	70.00	
01 22 23 00-1063 WK 10" Inside Diameter, 20' Length, Suction Hose With Couplings	180.00	
01 22 23 00-1064 MO 10" Inside Diameter, 20' Length, Suction Hose With Couplings	530.00	
01 22 23 00-1065 DAY 12" Inside Diameter, 20' Length, Suction Hose With Couplings	94.00	
01 22 23 00-1066 WK 12" Inside Diameter, 20' Length, Suction Hose With Couplings	205.00	
01 22 23 00-1067 MO 12" Inside Diameter, 20' Length, Suction Hose With Couplings	615.00	
01 22 23 00-1068 Discharge Hose With Couplings (01 22 23 00-0991)		
Note: Includes delivery, set-up, and removal.		
01 22 23 00-1069 DAY 1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings	6.00	
01 22 23 00-1070 WK 1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings	15.00	
01 22 23 00-1071 MO 1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings	46.00	
01 22 23 00-1072 DAY 2" Inside Diameter, 50' Length, Discharge Hose With Couplings	7.00	
01 22 23 00-1073 WK 2" Inside Diameter, 50' Length, Discharge Hose With Couplings	17.00	
01 22 23 00-1074 MO 2" Inside Diameter, 50' Length, Discharge Hose With Couplings	53.00	
01 22 23 00-1075 DAY 3" Inside Diameter, 50' Length, Discharge Hose With Couplings	8.00	
01 22 23 00-1076 WK 3" Inside Diameter, 50' Length, Discharge Hose With Couplings	20.00	
01 22 23 00-1077 MO 3" Inside Diameter, 50' Length, Discharge Hose With Couplings	61.00	
01 22 23 00-1078 DAY 4" Inside Diameter, 50' Length, Discharge Hose With Couplings	21.00	
01 22 23 00-1079 WK 4" Inside Diameter, 50' Length, Discharge Hose With Couplings	54.00	
01 22 23 00-1080 MO 4" Inside Diameter, 50' Length, Discharge Hose With Couplings	155.00	
01 22 23 00-1081 DAY 6" Inside Diameter, 50' Length, Discharge Hose With Couplings	26.00	
01 22 23 00-1082 WK 6" Inside Diameter, 50' Length, Discharge Hose With Couplings	71.00	
01 22 23 00-1083 MO 6" Inside Diameter, 50' Length, Discharge Hose With Couplings	195.00	
01 22 23 00-1084 DAY 10" Inside Diameter, 10' Length, Discharge Hose With Couplings	20.00	
01 22 23 00-1085 WK 10" Inside Diameter, 10' Length, Discharge Hose With Couplings	50.00	
01 22 23 00-1086 MO 10" Inside Diameter, 10' Length, Discharge Hose With Couplings	150.00	
01 22 23 00-1087 DAY 12" Inside Diameter, 10' Length, Discharge Hose With Couplings	51.00	
01 22 23 00-1088 WK 12" Inside Diameter, 10' Length, Discharge Hose With Couplings	130.00	
01 22 23 00-1089 MO 12" Inside Diameter, 10' Length, Discharge Hose With Couplings	385.00	
01 22 23 00-1090 Hydraulic Submersible Pumps (01 22 23 00-0991)		
Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1091 Hydraulic Submersible Pumps (01 22 23 00-1090)		
Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1092 DAY 60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump	114.14	
01 22 23 00-1093 WK 60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump	306.10	
01 22 23 00-1094 MO 60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump	856.05	
01 22 23 00-1095 DAY 132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump	145.27	
01 22 23 00-1096 WK 132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump	373.55	
01 22 23 00-1097 MO 132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump	1,141.40	
01 22 23 00-1098 Hydraulic Submersible Pump Diesel Power Packs (01 22 23 00-1090)		
Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-1099 DAY 100 HP, Hydraulic Submersible Pump Diesel Power Pack	263.73	
01 22 23 00-1100 WK 100 HP, Hydraulic Submersible Pump Diesel Power Pack	786.88	
01 22 23 00-1101 MO 100 HP, Hydraulic Submersible Pump Diesel Power Pack	2,075.28	
01 22 23 00-1102 HDPE Pipe With Couplings (01 22 23 00-0991)		
Note: Includes delivery, set-up, and removal.		
01 22 23 00-1103 DAY 4" x 20' HDPE Pipe With Couplings	15.71	
01 22 23 00-1104 WK 4" x 20' HDPE Pipe With Couplings	37.70	
01 22 23 00-1105 MO 4" x 20' HDPE Pipe With Couplings	116.25	
01 22 23 00-1106 DAY 6" x 20' HDPE Pipe With Couplings	25.14	
01 22 23 00-1107 WK 6" x 20' HDPE Pipe With Couplings	62.84	
01 22 23 00-1108 MO 6" x 20' HDPE Pipe With Couplings	191.66	
01 22 23 00-1109 DAY 8" x 20' HDPE Pipe With Couplings	40.85	
01 22 23 00-1110 WK 8" x 20' HDPE Pipe With Couplings	106.83	
01 22 23 00-1111 MO 8" x 20' HDPE Pipe With Couplings	317.34	
01 22 23 00-1112 DAY 10" x 20' HDPE Pipe With Couplings	50.27	
01 22 23 00-1113 WK 10" x 20' HDPE Pipe With Couplings	128.82	
01 22 23 00-1114 MO 10" x 20' HDPE Pipe With Couplings	392.75	



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01 22 23 00-1115 DAY 12" x 10' HDPE Pipe With Couplings.....	37.70	
01 22 23 00-1116 WK 12" x 10' HDPE Pipe With Couplings.....	103.69	
01 22 23 00-1117 MO 12" x 10' HDPE Pipe With Couplings.....	314.20	
01 22 23 00-1118 DAY 4" Elbow For HDPE Pipe, Quick Connect.....	37.70	
01 22 23 00-1119 WK 4" Elbow For HDPE Pipe, Quick Connect.....	97.40	
01 22 23 00-1120 MO 4" Elbow For HDPE Pipe, Quick Connect.....	289.06	
01 22 23 00-1121 DAY 6" Elbow For HDPE Pipe, Quick Connect.....	43.99	
01 22 23 00-1122 WK 6" Elbow For HDPE Pipe, Quick Connect.....	113.11	
01 22 23 00-1123 MO 6" Elbow For HDPE Pipe, Quick Connect.....	345.62	
01 22 23 00-1124 DAY 8" Elbow For HDPE Pipe, Quick Connect.....	50.27	
01 22 23 00-1125 WK 8" Elbow For HDPE Pipe, Quick Connect.....	128.82	
01 22 23 00-1126 MO 8" Elbow For HDPE Pipe, Quick Connect.....	392.75	
01 22 23 00-1127 DAY 10" Elbow For HDPE Pipe, Quick Connect.....	62.84	
01 22 23 00-1128 WK 10" Elbow For HDPE Pipe, Quick Connect.....	160.24	
01 22 23 00-1129 MO 10" Elbow For HDPE Pipe, Quick Connect.....	487.01	
01 22 23 00-1130 DAY 12" Elbow For HDPE Pipe, Quick Connect.....	62.84	
01 22 23 00-1131 WK 12" Elbow For HDPE Pipe, Quick Connect.....	160.24	
01 22 23 00-1132 MO 12" Elbow For HDPE Pipe, Quick Connect.....	487.01	
01 22 23 00-1133 DAY 4" Tee For HDPE Pipe, Quick Connect.....	37.70	
01 22 23 00-1134 WK 4" Tee For HDPE Pipe, Quick Connect.....	97.40	
01 22 23 00-1135 MO 4" Tee For HDPE Pipe, Quick Connect.....	289.06	
01 22 23 00-1136 DAY 6" Tee For HDPE Pipe, Quick Connect.....	50.27	
01 22 23 00-1137 WK 6" Tee For HDPE Pipe, Quick Connect.....	128.82	
01 22 23 00-1138 MO 6" Tee For HDPE Pipe, Quick Connect.....	392.75	
01 22 23 00-1139 DAY 8" Tee For HDPE Pipe, Quick Connect.....	62.84	
01 22 23 00-1140 WK 8" Tee For HDPE Pipe, Quick Connect.....	160.24	
01 22 23 00-1141 MO 8" Tee For HDPE Pipe, Quick Connect.....	487.01	
01 22 23 00-1142 DAY 10" Tee For HDPE Pipe, Quick Connect.....	75.41	
01 22 23 00-1143 WK 10" Tee For HDPE Pipe, Quick Connect.....	191.66	
01 22 23 00-1144 MO 10" Tee For HDPE Pipe, Quick Connect.....	581.27	
01 22 23 00-1145 DAY 12" Tee For HDPE Pipe, Quick Connect.....	75.41	
01 22 23 00-1146 WK 12" Tee For HDPE Pipe, Quick Connect.....	191.66	
01 22 23 00-1147 MO 12" Tee For HDPE Pipe, Quick Connect.....	581.27	
01 22 23 00-1148 DAY 4" Cap For HDPE Pipe, Quick Connect.....	6.28	
01 22 23 00-1149 WK 4" Cap For HDPE Pipe, Quick Connect.....	18.85	
01 22 23 00-1150 MO 4" Cap For HDPE Pipe, Quick Connect.....	56.56	
01 22 23 00-1151 DAY 6" Cap For HDPE Pipe, Quick Connect.....	6.28	
01 22 23 00-1152 WK 6" Cap For HDPE Pipe, Quick Connect.....	18.85	
01 22 23 00-1153 MO 6" Cap For HDPE Pipe, Quick Connect.....	56.56	
01 22 23 00-1154 DAY 8" Cap For HDPE Pipe, Quick Connect.....	6.28	
01 22 23 00-1155 WK 8" Cap For HDPE Pipe, Quick Connect.....	18.85	
01 22 23 00-1156 MO 8" Cap For HDPE Pipe, Quick Connect.....	56.56	
01 22 23 00-1157 DAY 10" Cap For HDPE Pipe, Quick Connect.....	6.28	
01 22 23 00-1158 WK 10" Cap For HDPE Pipe, Quick Connect.....	18.85	
01 22 23 00-1159 MO 10" Cap For HDPE Pipe, Quick Connect.....	56.56	
01 22 23 00-1160 DAY 12" Cap For HDPE Pipe, Quick Connect.....	6.28	
01 22 23 00-1161 WK 12" Cap For HDPE Pipe, Quick Connect.....	18.85	
01 22 23 00-1162 MO 12" Cap For HDPE Pipe, Quick Connect.....	56.56	
01 22 23 00-1163 DAY 4" Wye For HDPE Pipe, Quick Connect.....	18.85	
01 22 23 00-1164 WK 4" Wye For HDPE Pipe, Quick Connect.....	47.13	
01 22 23 00-1165 MO 4" Wye For HDPE Pipe, Quick Connect.....	144.53	
01 22 23 00-1166 DAY 6" Wye For HDPE Pipe, Quick Connect.....	21.99	
01 22 23 00-1167 WK 6" Wye For HDPE Pipe, Quick Connect.....	56.56	
01 22 23 00-1168 MO 6" Wye For HDPE Pipe, Quick Connect.....	172.81	
01 22 23 00-1169 DAY 8" Wye For HDPE Pipe, Quick Connect.....	37.70	
01 22 23 00-1170 WK 8" Wye For HDPE Pipe, Quick Connect.....	97.40	
01 22 23 00-1171 MO 8" Wye For HDPE Pipe, Quick Connect.....	289.06	
01 22 23 00-1172 DAY 10" Wye For HDPE Pipe, Quick Connect.....	56.56	
01 22 23 00-1173 WK 10" Wye For HDPE Pipe, Quick Connect.....	144.53	
01 22 23 00-1174 MO 10" Wye For HDPE Pipe, Quick Connect.....	439.88	
01 22 23 00-1175 DAY 12" Wye For HDPE Pipe, Quick Connect.....	56.56	
01 22 23 00-1176 WK 12" Wye For HDPE Pipe, Quick Connect.....	144.53	
01 22 23 00-1177 MO 12" Wye For HDPE Pipe, Quick Connect.....	439.88	

01 22 23 00-1178 Truck And Trailer Equipment (01 22 23)

01 22 23 00-1179 Trucks (01 22 23 00-1178)

Note: Includes driver, delivery, and removal.

01 22 23 00-1180 Flat Bed Trucks (01 22 23 00-1179)

Note: Includes hydraulic tilt bed.

01 22 23 00-1181 DAY 1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	942.73
For Equipment Without Operator, Deduct	-685.10
01 22 23 00-1182 WK 1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	4,100.93
For Equipment Without Operator, Deduct	-3,425.52
01 22 23 00-1183 MO 1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	16,549.84
For Equipment Without Operator, Deduct	-14,843.90
01 22 23 00-1184 DAY 3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	1,054.14
For Equipment Without Operator, Deduct	-685.10
01 22 23 00-1185 WK 3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver	4,386.41
For Equipment Without Operator, Deduct	-3,425.52

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1186	MO	3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	17,280.95 -14,843.90	
01 22 23 00-1187	DAY	6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	1,134.07 -685.10	
01 22 23 00-1188	WK	6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	4,691.95 -3,425.52	
01 22 23 00-1189	MO	6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	18,443.77 -14,843.90	
01 22 23 00-1190 Boom Trucks (01 22 23 00-1179)				
01 22 23 00-1191	DAY	3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i> <i>For High Rail Equipment, Add</i>	1,164.85 -685.10 167.91	
01 22 23 00-1192	WK	3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i> <i>For High Rail Equipment, Add</i>	4,674.68 -3,425.52 437.21	
01 22 23 00-1193	MO	3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i> <i>For High Rail Equipment, Add</i>	18,012.06 -14,843.90 1,108.86	
01 22 23 00-1194 Light Duty Trucks (01 22 23 00-1179)				
01 22 23 00-1195	DAY	1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	915.51 -678.23	
01 22 23 00-1196	WK	1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	4,169.73 -3,391.15	
01 22 23 00-1197	MO	1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	16,326.28 -14,694.98	
01 22 23 00-1198	DAY	3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	960.00 -678.23	
01 22 23 00-1199	WK	3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	4,303.19 -3,391.15	
01 22 23 00-1200	MO	3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	16,622.88 -14,694.98	
01 22 23 00-1201 Rear Dump Trucks (01 22 23 00-1179)				
01 22 23 00-1202	DAY	2.5 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	1,037.75 -685.10	
01 22 23 00-1203	WK	2.5 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	4,356.99 -3,425.52	
01 22 23 00-1204	MO	2.5 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	17,695.80 -14,843.90	
01 22 23 00-1205	DAY	4 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	1,154.67 -685.10	
01 22 23 00-1206	WK	4 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	4,719.22 -3,425.52	
01 22 23 00-1207	MO	4 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	18,197.95 -14,843.90	
01 22 23 00-1208	DAY	6 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	1,221.75 -685.10	
01 22 23 00-1209	WK	6 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	4,862.97 -3,425.52	
01 22 23 00-1210	MO	6 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	18,293.78 -14,843.90	
01 22 23 00-1211	DAY	13 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	2,017.14 -685.10	
01 22 23 00-1212	WK	13 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	6,501.66 -3,425.52	
01 22 23 00-1213	MO	13 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	22,893.62 -14,843.90	
01 22 23 00-1214	DAY	18 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	2,150.34 -685.10	
01 22 23 00-1215	WK	18 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	6,809.28 -3,425.52	
01 22 23 00-1216	MO	18 CY Rear Dump Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	23,698.59 -14,843.90	
01 22 23 00-1217 Vacuum Trucks (01 22 23 00-1179)				
01 22 23 00-1218	DAY	5,000 Gallon Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	2,007.55 -685.10	
01 22 23 00-1219	WK	5,000 Gallon Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	7,408.21 -3,425.52	
01 22 23 00-1220	MO	5,000 Gallon Vacuum Truck With Full-Time Truck Driver <i>For Equipment Without Operator, Deduct</i>	26,596.49 -14,843.90	
01 22 23 00-1221 Water Trucks (01 22 23 00-1179)				
Note: Includes pump and 1-1/2" Diameter x 50' water hose. See CSI section 01 22 23 00-1068 for additional discharge hose, 01 22 23 00-1244 for water trailer.				



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1222 DAY 2,000 Gallon Water Truck With Full-Time Driver For Equipment Without Operator, Deduct For Each 1,000 Gallon Of Purchased Water, Add	1,424.36 -685.10 13.91	
01 22 23 00-1223 WK 2,000 Gallon Water Truck With Full-Time Driver For Equipment Without Operator, Deduct For Each 1,000 Gallon Of Purchased Water, Add	5,372.24 -3,425.52 13.91	
01 22 23 00-1224 MO 2,000 Gallon Water Truck With Full-Time Driver For Equipment Without Operator, Deduct For Each 1,000 Gallon Of Purchased Water, Add	19,443.74 -14,843.90 13.91	
01 22 23 00-1225 DAY 3,700 To 4,000 Gallon Water Truck With Full-Time Driver For Equipment Without Operator, Deduct For Each 1,000 Gallon Of Purchased Water, Add	1,785.78 -685.10 13.91	
01 22 23 00-1226 WK 3,700 To 4,000 Gallon Water Truck With Full-Time Driver For Equipment Without Operator, Deduct For Each 1,000 Gallon Of Purchased Water, Add	6,456.49 -3,425.52 13.91	
01 22 23 00-1227 MO 3,700 To 4,000 Gallon Water Truck With Full-Time Driver For Equipment Without Operator, Deduct For Each 1,000 Gallon Of Purchased Water, Add	22,236.50 -14,843.90 13.91	
01 22 23 00-1228 Asphalt Distribution Trucks (01 22 23 00-1179)		
01 22 23 00-1229 DAY 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver For Equipment Without Operator, Deduct	1,878.56 -685.10	
01 22 23 00-1230 WK 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver For Equipment Without Operator, Deduct	6,990.58 -3,425.52	
01 22 23 00-1231 MO 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver For Equipment Without Operator, Deduct	25,383.10 -14,843.90	
01 22 23 00-1232 Traffic Control Truck With Mounted Impact Attenuators/Crash Cushions And Arrow Board (01 22 23 00-1179)		
01 22 23 00-1233 DAY Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver..... For Equipment Without Operator, Deduct	1,389.77 -678.23	
01 22 23 00-1234 WK Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver..... For Equipment Without Operator, Deduct	5,491.09 -3,391.15	
01 22 23 00-1235 MO Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver..... For Equipment Without Operator, Deduct	19,794.61 -14,694.98	
01 22 23 00-1236 Combination Jet/Vacuum Trucks (01 22 23 00-1179)		
01 22 23 00-1237 DAY 500 Gallon Water, 6 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver For Equipment Without Operator, Deduct	3,061.23 -685.10	
01 22 23 00-1238 WK 500 Gallon Water, 6 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver For Equipment Without Operator, Deduct	14,548.69 -3,425.52	
01 22 23 00-1239 DAY 1,000 Gallon Water, 10 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver For Equipment Without Operator, Deduct	3,475.86 -685.10	
01 22 23 00-1240 WK 1,000 Gallon Water, 10 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver For Equipment Without Operator, Deduct	16,960.71 -3,425.52	
01 22 23 00-1241 DAY 2,000 Gallon Water, 15 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver For Equipment Without Operator, Deduct	3,874.54 -685.10	
01 22 23 00-1242 WK 2,000 Gallon Water, 15 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver For Equipment Without Operator, Deduct	19,372.72 -3,425.52	
01 22 23 00-1243 Trailers (01 22 23 00-1178) Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-1244 Water Trailers With Pump (01 22 23 00-1243)		
01 22 23 00-1245 DAY 500 To 600 Gallon Water Trailer With Pump	188.92	
01 22 23 00-1246 WK 500 To 600 Gallon Water Trailer With Pump	484.63	
01 22 23 00-1247 MO 500 To 600 Gallon Water Trailer With Pump	1,297.81	
01 22 23 00-1248 Trailer Mounted Equipment (01 22 23 00-1178)		
01 22 23 00-1249 Trailer Mounted Under-Bridge Aerial Access Platform (01 22 23 00-1248) Note: Includes full-time operator. Excludes truck.		
01 22 23 00-1250 DAY Trailer Mounted Under-Bridge Aerial Access 32' With Full-Time Operator..... For Equipment Without Operator, Deduct	2,750.99 -685.10	
01 22 23 00-1251 WK Trailer Mounted Under-Bridge Aerial Access 32' With Full-Time Operator For Equipment Without Operator, Deduct	9,623.18 -3,425.52	
01 22 23 00-1252 MO Trailer Mounted Under-Bridge Aerial Access 32' With Full-Time Operator..... For Equipment Without Operator, Deduct	32,059.63 -14,843.90	
01 22 23 00-1253 DAY Trailer Mounted Under-Bridge Aerial Access 35' With Full-Time Operator..... For Equipment Without Operator, Deduct	2,957.58 -685.10	
01 22 23 00-1254 WK Trailer Mounted Under-Bridge Aerial Access 35' With Full-Time Operator For Equipment Without Operator, Deduct	10,242.95 -3,425.52	
01 22 23 00-1255 MO Trailer Mounted Under-Bridge Aerial Access 35' With Full-Time Operator..... For Equipment Without Operator, Deduct	33,781.20 -14,843.90	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1256 Trailer Mounted Bridge Stripping Buggy (01 22 23 00-1248)		
01 22 23 00-1257 DAY Trailer Mounted Bridge Overhang Stripping Buggy	234.42	
01 22 23 00-1258 WK Trailer Mounted Bridge Overhang Stripping Buggy	703.30	
01 22 23 00-1259 MO Trailer Mounted Bridge Overhang Stripping Buggy	1,953.53	
01 22 23 00-1260 Portable Trailer Mounted, CCTV Camera Systems (01 22 23 00-1248)		
Note: Includes trailer. Excludes truck.		
01 22 23 00-1261 MO Portable Trailer Mounted, Single Camera, CCTV Camera System	2,700.75	
01 22 23 00-1262 MO Portable Trailer Mounted, Multi-Camera/Loud Speaker, CCTV Camera System	4,681.30	
01 22 23 00-1263 CALTRANS Equipment Rental Rates (01 22 23)		
Note: An appropriate labor surcharge will be established by the Division of Construction for work that is determined by the resident engineer to be covered by Longshoreman and Harbor Worker's Act. (These tasks will be requested specifically by the owner for miscellaneous work not covered in the Construction Task Catalog®)		
01 22 23 00-1264 EA CALTRANS Equipment Rental Rates, Reimbursable	1.00	
Note: Reimbursable Fees will be paid to the contractor for eligible costs. Insert the appropriate quantity to adjust the base cost to the actual Reimbursable Fee. If there are multiple Reimbursable Fees, list each one separately and add a comment in the "note" block to identify the Reimbursable Fee. Per https://dot.ca.gov/-/media/dot-media/programs/construction/documents/equipment-rental-rates-and-labor-surcharge/book_2020.pdf		

01 30 Administrative Requirements (01)

01 31 Project Management and Coordination (01 30)

01 31 33 Project Minimum Labor Costs (01 31)

01 31 33 00-0001 Minimum Charge (01 31 33)		
Note: Use item exclusively for projects when the sum of line items is less than the minimum charge per occurrence. Item should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Item quantity is 1, unless approved by owner.		
01 31 33 00-0002 EA Carpenter Minimum Charge.....	1,080.65	
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0003 EA Carpet, Linoleum Minimum Charge	1,032.00	
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0004 EA Cement Mason Minimum Charge	742.72	
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0005 EA Drywall Finisher Minimum Charge	996.12	
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0006 EA Drywall Installer Minimum Charge	1,048.42	
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0007 EA Electrician Minimum Charge	1,329.80	
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0008 EA Glazier Minimum Charge	956.63	
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0009 EA Insulator Minimum Charge.....	1,126.65	
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0010 EA Laborer Minimum Charge	706.38	
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0011 EA Landscape Maintenance Worker Minimum Charge	831.38	
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0012 EA Ornamental Metal Worker Minimum Charge.....	1,011.13	
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0013 EA Painter, Ordinary Minimum Charge	826.14	
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0014 EA Plasterer Minimum Charge	944.80	
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0015 EA Plumber Minimum Charge	1,371.81	
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0016 EA Roofer, Tile/Slate Minimum Charge.....	1,013.21	
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0017 EA Roofer, Composite Built-Up Minimum Charge	1,042.11	
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0018 EA Sheet Metal Worker Minimum Charge.....	1,265.64	
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		



General Requirements			01
Administrative Requirements			01 30
Project Management and Coordination			01 31

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 31 33 00-0019 EA Sprinkler Installer Minimum Charge.....	1,301.44	
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
01 31 33 00-0020 EA Tile Layer (Floor) Minimum Charge.....	875.28	
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		

01 40 Quality Requirements ⁽⁰¹⁾

01 45 Quality Control ^(01 40)

01 45 23 Testing and Inspecting Services ^(01 45)

Note: For application to existing materials/site conditions only. Includes acquisition and maintenance of sample (for laboratory tests) to include shipping as required, applicable equipment for field tests, and appropriate test reports.

01 45 23 00-0001 Soils/Aggregate Testing ^(01 45 23)

01 45 23 00-0002 Field Soils Tests ^(01 45 23 00-0001)

01 45 23 00-0003 EA Plasticity Index Soils Test, ASTM D-4318, Field Soils Test.....	330.57
01 45 23 00-0004 EA 4" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test.....	469.19
01 45 23 00-0005 EA 6" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test.....	533.18
01 45 23 00-0006 EA Resistance (R) Value Soils Test, CA 301, Field Soils Test.....	426.54
01 45 23 00-0007 EA Soils Classification Test, ASTM D-2487, Field Soils Test.....	639.81
01 45 23 00-0008 SET Cement Treated Base Laboratory Design, Soil Cement, Field Soils Test.....	1,279.18
01 45 23 00-0009 EA Moisture Content, Field Soils Test.....	47.97
01 45 23 00-0010 EA UBC Or Swell Test, Field Soils Test.....	168.05
01 45 23 00-0011 EA Proctor Compaction 4" Standard Mold ASTM D698, Field Soils Test.....	319.80
01 45 23 00-0012 EA Proctor Compaction 6" Standard Mold, Field Soils Test.....	399.74
01 45 23 00-0013 EA Density And Classification Test, Field Soils Test.....	127.92
01 45 23 00-0014 EA Percolation Test, Field Soils Test.....	319.80
01 45 23 00-0015 EA Infiltration Test, Field Soils Test.....	639.59

01 45 23 00-0016 Aggregate Testing ^(01 45 23 00-0001)

01 45 23 00-0017 EA Coarse Aggregate Sieve Analysis Test, ASTM C-136, CA 202.....	106.64
01 45 23 00-0018 EA Fine Aggregate Sieve Analysis Test, ASTM C-136, CA 202.....	191.94
01 45 23 00-0019 EA Combined Aggregate Sieve Analysis Test, ASTM C-136, CA 202.....	266.59
01 45 23 00-0020 EA Sieve Analysis, Pit Run, ASTM C136.....	207.87
Note: Includes wash.	
01 45 23 00-0021 EA Specific Special Gravity, Course, ASTM C127.....	169.42
Note: Includes absorption test.	
01 45 23 00-0022 EA Special Gravity, Fine, ASTM C127.....	151.90
Note: Includes absorption test.	
01 45 23 00-0023 EA Coarse Aggregate Bulk SSD Specific Gravity Test, ASTM C-128.....	225.90
01 45 23 00-0024 EA Fine Aggregate Bulk SSD Specific Gravity Test, ASTM C-128.....	213.27
01 45 23 00-0025 EA Aggregate Cleanness Value, ASTM C-128, CA 227.....	213.27
01 45 23 00-0026 EA Sand Equivalent, Average of 3 Tests, ASTM D2419, CA 217.....	159.95
01 45 23 00-0027 EA Fine Aggregate Durability Index, CA 229.....	170.62
01 45 23 00-0028 EA Sodium And Magnesium Soundness, ASTM C88.....	447.71
01 45 23 00-0029 EA Los Angeles Rattler, ASTM C-131, CA 211.....	341.23
01 45 23 00-0030 EA Los Angeles Rattler, ASTM C-535.....	341.23
01 45 23 00-0031 EA Unit Weight Of Aggregates, ASTM C29.....	95.97
01 45 23 00-0032 EA Organic Impurities In Sand, ASTM C40.....	95.94
01 45 23 00-0033 EA Crushed Particle, ASTM California Test Method.....	95.94
01 45 23 00-0034 EA Clay Lump And Friable Particles, ASTM C142.....	191.88

01 45 23 00-0035 Permeability Tests ^(01 45 23 00-0001)

01 45 23 00-0036 In-Place Tests ^(01 45 23 00-0035)

01 45 23 00-0037 EA Double Ring Infiltrometer Test, ASTM D3385.....	1,694.25
01 45 23 00-0038 EA Unconfined Compressive Strength (Pocket Penetrometer) Test.....	79.95

01 45 23 00-0039 Lab Tests ^(01 45 23 00-0035)

01 45 23 00-0040 EA Falling Head Rigid Wall Consolidometer Technique CAE.....	790.65
01 45 23 00-0041 EA Falling Head Permeability Test EPA-9100.....	790.65
01 45 23 00-0042 EA Constant Head Permeability Test For Granular Soils, ASTM D2432.....	451.80

01 45 23 00-0043 Concrete/Cement/Asphalt Testing ^(01 45 23)

01 45 23 00-0044 Concrete Testing ^(01 45 23 00-0043)

01 45 23 00-0045 EA Prepare 6 x 12 Concrete Cylinder And Deliver To Lab.....	23.06
01 45 23 00-0046 EA 6 x 12 Cylinder Concrete Compression Test, ASTM C-39 Or ASTM D1633.....	67.77
01 45 23 00-0047 EA Concrete Cores Compression Test, ASTM C-42.....	138.63
01 45 23 00-0048 EA 6 x 6 x 18 Concrete Flexural Test, ASTM C-78.....	202.61
01 45 23 00-0049 EA Unit Weight Of Concrete Cylinder, ASTM C-567.....	74.64
01 45 23 00-0050 EA Concrete Mix Design Review.....	405.21
01 45 23 00-0051 EA Trial Concrete Batch Prepared In Laboratory.....	959.72
01 45 23 00-0052 EA Concrete Shrinkage, ASTM C-157 Modified.....	746.44

01 General Requirements**01 40 Quality Requirements****01 45 Quality Control**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 23 00-0053 EA 6 x 12 Concrete Cylinder Splitting Tensile Test, ASTM C-496.....	115.17	
01 45 23 00-0054 EA Concrete Slump Test, ASTM C143.....	53.32	
01 45 23 00-0055 EA Concrete Air Content Test, ASTM C138, ASTM C173, Or ASTM C231	53.32	
01 45 23 00-0056 Cement Testing (01 45 23 00-0043)		
01 45 23 00-0057 EA Cement Grab Sample (CCR Title 24)	53.32	
Note: Includes sealing and storing 1 year.		
01 45 23 00-0058 EA 2" x 2" x 2" Cube Compression Test, All Type Materials.....	85.31	
01 45 23 00-0059 Asphaltic Concrete Testing (01 45 23 00-0043)		
01 45 23 00-0060 EA Hveem Asphaltic Concrete Stability Test, CA 366	106.64	
01 45 23 00-0061 EA Marshall Asphaltic Concrete Stability Test (3 Specimens), ASTM D-6926/6927	277.25	
01 45 23 00-0062 EA Stability Tests, Premixed, ASTM D1559.....	106.64	
01 45 23 00-0063 EA Stability Tests, Lab. Mixed, ASTM D1559.....	277.25	
01 45 23 00-0064 EA Swell Test, CA 305	127.96	
Note: Includes compaction.		
01 45 23 00-0065 EA % Asphalt Extraction Test, ASTM D-2172 B.....	319.90	
01 45 23 00-0066 EA Maximum Theoretical Unit Weight, ASTM C2041.....	203.31	
01 45 23 00-0067 EA Unit Weight Sample Requiring Compaction, California Test Method 308.....	42.65	
01 45 23 00-0068 EA Asphalt Unit Weight On Core Test, CA 308C	42.65	
01 45 23 00-0069 HR Nuclear Field Density Testing, 4 Hour Minimum	219.67	
01 45 23 00-0070 EA Asphalt Film Stripping Test, CTM 302/AASHTO T182/ASTM D1664	143.91	
01 45 23 00-0071 EA Penetration, ASTM D5	154.04	
01 45 23 00-0072 Masonry/Concrete Block/Tile Testing (01 45 23)		
01 45 23 00-0073 Masonry Testing (01 45 23 00-0072)		
01 45 23 00-0074 EA 2" x 4" Cylinder Mortar Compression Test.....	70.38	
01 45 23 00-0075 EA 4" x 4" x 8" Grout Prisms Compression Test.....	70.38	
01 45 23 00-0076 EA Masonry Cores Compression Test	138.63	
01 45 23 00-0077 EA Composite Grouted Prism Compression Test.....	266.59	
01 45 23 00-0078 Concrete Block Testing (ASTM C140 Or CMA Per Specimen) (01 45 23 00-0072)		
01 45 23 00-0079 EA Up To 8" x 8" x 16" Concrete Block Compression Test, ASTM C-140	170.62	
01 45 23 00-0080 EA Absorption Test, Moisture Content And Unit Weight.....	117.30	
01 45 23 00-0081 EA First Unit, Moisture Condition By Relative Humidity, ASTM C427	447.71	
01 45 23 00-0082 EA Moisture Condition By Relative Humidity, ASTM C427, Additional Unit	223.86	
01 45 23 00-0083 Metals Testing (01 45 23)		
01 45 23 00-0084 Tank Line Tightness Testing (01 45 23 00-0083)		
01 45 23 00-0085 EA Up To 12,000 Gallons, Tank Line Volumetric Tightness Testing	561.98	
01 45 23 00-0086 EA >12,000 To 29,999 Gallons, Tank Line Volumetric Tightness Testing.....	624.02	
01 45 23 00-0087 EA >29,999 Gallons, Tank Line Volumetric Tightness Testing	685.84	
01 45 23 00-0088 Other Testing (01 45 23)		
01 45 23 00-0089 Special Testing (01 45 23 00-0088)		
01 45 23 00-0090 EA Asphalt Roofing Cut-out Samples, To Determine Unit Weight.....	165.31	
01 45 23 00-0091 EA Complete Built-Up Roof Analysis, ASTM D2829 Or ASTM D3617	991.86	
01 45 23 00-0092 EA Bacteria Test (Total Coliform Bacteria And E. Coli Bacteria).....	49.84	
01 45 23 00-0093 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Caulk, Analysis Per Sample.....	206.72	
01 45 23 00-0094 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Soil, Analysis Per Sample	206.72	
01 45 23 00-0095 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) Using Wipe Sampling, Analysis Per Sample.....	206.72	
01 45 23 00-0096 EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Air, Analysis Per Sample.....	1,136.96	
01 45 23 00-0097 EA Testing And Certification Of Backflow Valves	663.68	
01 45 23 00-0098 Nondestructive Field Testing Services (01 45 23 00-0088)		
01 45 23 00-0099 Infrared Thermography (01 45 23 00-0098)		
Note: The following tasks use certified infrared (IR) thermographers, such as Stockton Infrared Thermographic Services, Inc. and United Infrared, Inc., to scan for specific problems and produce a report on the findings. The contractor is entitled to the mobilization charge and the appropriate square foot or hourly task.		
01 45 23 00-0100 Roof Investigation And Moisture Survey Using Infrared Thermography (01 45 23 00-0099)		
Note: For on the roof surveys.		
01 45 23 00-0101 EA Roof Investigation And Moisture Survey Using Infrared Thermography, Mobilization Charge	3,720.96	
01 45 23 00-0102 CSF Up To 10,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography	6.20	
For CADD Drawings, Add	1.24	
01 45 23 00-0103 CSF >10,000 To 50,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography	4.13	
For CADD Drawings, Add	0.83	
01 45 23 00-0104 CSF >50,000 To 250,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography	3.10	
For CADD Drawings, Add	0.62	
For Elevated Infrared Thermography Roof Investigation, Add	0.78	
For Aerial Infrared Thermography Roof Investigation, Add	0.78	



General Requirements		01	5
Quality Requirements		01 40	
Quality Control		01 45	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 23 00-0105 CSF >250,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography..... <i>For CADD Drawings, Add</i> <i>For Elevated Infrared Thermography Roof Investigation, Add</i> <i>For Aerial Infrared Thermography Roof Investigation, Add</i>	2.07 0.41 0.52 0.52	
01 45 23 00-0106 Building Moisture Investigation Using Infrared Thermography (01 45 23 00-0099) Note: For finding moisture in walls and windows.		
01 45 23 00-0107 EA Building Moisture Investigation Using Infrared Thermography, Mobilization Charge	1,963.84	
01 45 23 00-0108 CSF Up To 1,000 SF, Building Moisture Investigation Using Infrared Thermography <i>For Digital Or Analog Recording Of All Items, Add</i>	6.20 3.10	
01 45 23 00-0109 CSF >1,000 To 5,000 SF, Building Moisture Investigation Using Infrared Thermography <i>For Digital Or Analog Recording Of All Items, Add</i>	4.13 2.07	
01 45 23 00-0110 CSF >5,000 SF, Building Moisture Investigation Using Infrared Thermography <i>For Digital Or Analog Recording Of All Items, Add</i>	2.07 1.04	
01 45 23 00-0111 General Building Investigation Using Infrared Thermography (01 45 23 00-0099) Note: For finding missing or misplaced insulation, air leakage and delamination.		
01 45 23 00-0112 EA General Building Investigation Using Infrared Thermography, Mobilization Charge	4,031.04	
01 45 23 00-0113 CSF Up To 1,000 SF, General Building Investigation Using Infrared Thermography <i>For Digital Or Analog Recording Of All Items, Add</i>	6.20 3.10	
01 45 23 00-0114 CSF >1,000 To 5,000 SF, General Building Investigation Using Infrared Thermography <i>For Digital Or Analog Recording Of All Items, Add</i>	4.13 2.07	
01 45 23 00-0115 CSF >5,000 SF, General Building Investigation Using Infrared Thermography <i>For Digital Or Analog Recording Of All Items, Add</i>	2.07 1.04	
01 45 23 00-0116 Electrical /Mechanical Equipment Scanning Using Infrared Thermography (01 45 23 00-0099) Note: For diagnosing electrical issues such as loose connections, overloaded or imbalanced circuits, faulty breakers, damaged switches, faulty fuses, etc. For diagnosing electrical issues caused by resistance and mechanical issues caused by friction.		
01 45 23 00-0117 EA Electrical /Mechanical Equipment Scanning Using Infrared Thermography, Mobilization Charge	1,963.84	
01 45 23 00-0118 HR Electrical /Mechanical Equipment Scanning Using Infrared Thermography <i>For Digital Or Analog Recording Of All Items, Add</i>	263.88 39.51	
01 45 23 00-0119 Concrete Block Wall Investigation Using Infrared Thermography (01 45 23 00-0099) Note: For investigating issues with grouted cells, bond beams and other structural components in concrete block walls.		
01 45 23 00-0120 EA Concrete Block Wall Investigation Using Infrared Thermography, Mobilization Charge	1,963.84	
01 45 23 00-0121 CSF Up To 50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography <i>For Digital Or Analog Recording Of All Items, Add</i>	6.20 0.93	
01 45 23 00-0122 CSF >50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography <i>For Digital Or Analog Recording Of All Items, Add</i>	4.13 0.62	
01 45 23 00-0123 Other Nondestructive Field Testing Services (01 45 23 00-0098)		
01 45 23 00-0124 HR ASNT Certified Level I NDT Consultant.....	98.10	
01 45 23 00-0125 HR ASNT Certified Level II NDT Consultant.....	122.40	
01 45 23 00-0126 HR ASNT Certified Level III NDT Consultant.....	140.55	
01 45 23 00-0127 HR Certified Industrial Radiography Radiation Safety Personnel	146.90	
01 45 23 00-0128 Testing Professional Services (01 45 23 00-0088)		
01 45 23 00-0129 HR Concrete, Steel, Masonry, Expansion Anchor And Soils Inspection	198.34	
01 45 23 00-0130 HR Laboratory Technician	191.94	
01 45 23 00-0131 HR Portable Digital Reinforcement Scanner	277.25	
01 45 23 00-0132 HR Subsurface Detection Radar System.....	469.19	
01 45 23 00-0133 HR Pavement Rehabilitation Analysis Using Deflectors	533.18	
01 45 29 Testing Laboratory Services (01 45)		
01 45 29 00-0001 Soil Borings Laboratory Tests (01 45 29)		
01 45 29 00-0002 EA Atterberg Limits - Liquid Limits (LL) And Plastic Limits (PL), T89, T90, ASTM D4318, Soil Borings Laboratory Test.....	146.84	
01 45 29 00-0003 EA Shrinkage Limit, Soil Borings Laboratory Test.....	46.85	
01 45 29 00-0004 EA Unconfined Compressive Strength Of Cohesive Soils, Soil Borings Laboratory Test	112.95	
01 45 29 00-0005 EA Consolidation, Soil Borings Laboratory Test.....	790.65	
01 45 29 00-0006 EA Swell Test, Soil Borings Laboratory Test.....	156.14	
01 45 29 00-0007 EA In Place Density, Soil Borings Laboratory Test.....	33.88	
01 45 29 00-0008 EA Moisture Content, ASTM D2216, Soil Borings Laboratory Test	21.05	
01 45 29 00-0009 EA Hydrometer Analysis, Soil Borings Laboratory Test.....	271.78	
01 45 29 00-0010 EA Specific Gravity, ASTM D854, Soil Borings Laboratory Test	94.76	
01 45 29 00-0011 EA Partial Sieve Analysis, Soil Borings Laboratory Test.....	18.74	
01 45 29 00-0012 EA Laboratory Permeability, Soil Borings Laboratory Test.....	936.94	
01 45 29 00-0013 EA Sieve Analysis, ASTM D422, Soil Borings Laboratory Test.....	189.51	
01 45 29 00-0014 EA Sulfate Soundness, Soil Borings Laboratory Test.....	234.23	
01 45 29 00-0015 EA Los Angeles Abrasion, Soil Borings Laboratory Test.....	546.16	
01 45 29 00-0016 EA Soil Bearing Ratio, ASTM D1883.....	479.86	
01 45 29 00-0017 EA Compaction Test Subgrade, Soil Borings Laboratory Test	140.54	

01 General Requirements**01 40 Quality Requirements****01 45 Quality Control**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

01 45 29 00-0018	EA	Compaction Test Base Course, Soil Borings Laboratory Test.....	118.91
01 45 29 00-0019	EA	In Place Density And Water Content Test By Nuclear Methods, ASTM D6938, Soil Borings Laboratory Test.....	462.13
01 45 29 00-0020	EA	Field Density Sand Cone, AASHTO T-191, ASTM D1556, Soil Borings Laboratory Test.....	71.83

01 50 Temporary Facilities and Controls ⁽⁰¹⁾

Note: Tasks in this section shall be used as directed by owner.

01 51 Temporary Utilities ^(01 50)**01 51 13 Temporary Electricity** ^(01 51)**01 51 13 00-0001 Temporary Service Switch And/Or Building Feeder Switch** ^(01 51 13)

Note: Includes all connections and removal after use.

01 51 13 00-0002	EA	Temporary 100 Amperes, NEMA 1 Or 3R, Disconnect Switch With Fuses	1,664.05
01 51 13 00-0003	EA	Temporary 200 Amperes, NEMA 1 Or 3R, Disconnect Switch With Fuses	2,608.44
01 51 13 00-0004	EA	Temporary 400 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses	4,689.74
01 51 13 00-0005	EA	Temporary 600 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses	7,427.92

01 51 13 00-0006 Temporary 120/208 Volt Main Lug Panelboard Complete With Branch Fuses ^(01 51 13)

Note: Includes mounting on wall and removal after use.

01 51 13 00-0007	EA	Temporary 100 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	1,616.05
01 51 13 00-0008	EA	Temporary 200 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	2,361.02
01 51 13 00-0009	EA	Temporary 400 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	3,665.84
01 51 13 00-0010	EA	Temporary 600 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	5,372.01

01 51 13 00-0011 Temporary Conduit And Cable For Temporary Disconnect Switches And Temporary Panelboards ^(01 51 13)

Note: Includes all connections, fittings, supports and removal after use.

01 51 13 00-0012	LF	Temporary SER Cable (Conduit As Required) For Temporary Disconnect Switches And Temporary Panelboards	11.38
01 51 13 00-0013	LF	Temporary Branch Circuit Conduit And Wiring For Temporary Disconnect Switches And Temporary Panelboards	12.47

01 51 26 Temporary Lighting ^(01 51)**01 51 26 00-0001 Temporary Lighting Devices** ^(01 51 26)

Note: Includes removal after use.

01 51 26 00-0002	EA	Temporary Exit Light.....	327.83
01 51 26 00-0003	EA	Temporary 10 Light String With Cages.....	123.31
01 51 26 00-0004	EA	Temporary High Bay Light	470.82

01 52 Construction Facilities ^(01 50)

Note: Tasks in this section shall be used as directed by owner for owner's use.

01 52 13 Field Offices and Sheds ^(01 52)**01 52 13 00-0001 Field Offices and Office Trailers** ^(01 52 13)

Note: Excludes furniture, utility connections and service. Minimum 6 months rental.

01 52 13 00-0002	MO	8' x 24' Mobile Office, With Toilet.....	184.67
		For Each Delivery And Removal, Two Round Trips, Add	1,157.12
		For Each Set-Up (Block And Level), Add	430.60
		For Each Anchoring Into Dirt, Add	131.31
		For Each Anchoring Into Asphalt Or Concrete, Add	196.96
		For Office Trailer Without Toilet, Deduct	-36.93
01 52 13 00-0003	MO	8' x 32' Mobile Office, With Toilet.....	209.29
		For Each Delivery And Removal, Two Round Trips, Add	1,157.12
		For Each Set-Up (Block And Level), Add	430.60
		For Each Anchoring Into Dirt, Add	131.31
		For Each Anchoring Into Asphalt Or Concrete, Add	196.96
		For Office Trailer Without Toilet, Deduct	-41.86
01 52 13 00-0004	MO	10' x 36' Mobile Office, With Toilet.....	283.16
		For Each Delivery And Removal, Two Round Trips, Add	1,735.69
		For Each Set-Up (Block And Level), Add	702.55
		For Each Anchoring Into Dirt, Add	131.31
		For Each Anchoring Into Asphalt Or Concrete, Add	196.96
		For Office Trailer Without Toilet, Deduct	-56.63
01 52 13 00-0005	MO	10' x 40' Mobile Office, With Toilet.....	301.63
		For Each Delivery And Removal, Two Round Trips, Add	1,735.69
		For Each Set-Up (Block And Level), Add	702.55
		For Each Anchoring Into Dirt, Add	131.31
		For Each Anchoring Into Asphalt Or Concrete, Add	196.96
		For Office Trailer Without Toilet, Deduct	-60.33
01 52 13 00-0006	MO	10' x 44' Mobile Office, With Toilet.....	332.40
		For Each Delivery And Removal, Two Round Trips, Add	1,735.69
		For Each Set-Up (Block And Level), Add	702.55
		For Each Anchoring Into Dirt, Add	131.31
		For Each Anchoring Into Asphalt Or Concrete, Add	196.96



General Requirements		01	Σ
Temporary Facilities and Controls		01 50	
Construction Facilities		01 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 52 13 00-0007 MO 10' x 50' Mobile Office, With Toilet..... For Each Delivery And Removal, Two Round Trips, Add For Each Set-Up (Block And Level), Add For Each Anchoring Into Dirt, Add For Each Anchoring Into Asphalt Or Concrete, Add	350.87 1,735.69 702.55 131.31 196.96	
01 52 13 00-0008 MO 12' x 32' Mobile Office, With Toilet..... For Each Anchoring Into Dirt, Add For Each Anchoring Into Asphalt Or Concrete, Add For Each Delivery And Set-Up (Block And Level), Add For Each Knock-Down And Pick-Up, Add	271.46 131.31 196.96 986.88 791.88	
01 52 13 00-0009 MO 12' x 44' Mobile Office, With Toilet..... For Each Delivery And Removal, Two Round Trips, Add For Each Set-Up (Block And Level), Add For Each Anchoring Into Dirt, Add For Each Anchoring Into Asphalt Or Concrete, Add	362.94 1,735.69 702.55 131.31 196.96	
01 52 13 00-0010 MO 12' x 50' Mobile Office, With Toilet..... For Each Delivery And Removal, Two Round Trips, Add For Each Set-Up (Block And Level), Add For Each Anchoring Into Dirt, Add For Each Anchoring Into Asphalt Or Concrete, Add	412.43 1,735.69 702.55 131.31 196.96	
01 52 13 00-0011 MO 12' x 60' Mobile Office, With Toilet..... For Each Delivery And Removal, Two Round Trips, Add For Each Set-Up (Block And Level), Add For Each Anchoring Into Dirt, Add For Each Anchoring Into Asphalt Or Concrete, Add	449.36 1,735.69 702.55 131.31 196.96	
01 52 13 00-0012 MO 24' x 60' Modular Office, With Toilet..... For Each Delivery And Removal, Two Round Trips, Add For Each Set-Up (Block And Level), Add For Each Anchoring Into Dirt, Add For Each Anchoring Into Asphalt Or Concrete, Add	984.89 3,471.36 1,133.15 131.31 196.96	
01 52 13 00-0013 MO 24' x 72' Modular Office, With Toilet..... For Each Delivery And Removal, Two Round Trips, Add For Each Set-Up (Block And Level), Add For Each Anchoring Into Dirt, Add For Each Anchoring Into Asphalt Or Concrete, Add	1,181.87 3,471.36 1,133.15 131.31 196.96	
01 52 13 00-0014 MO 30' x 30' Modular Office, With Toilet..... For Each Delivery And Removal, Two Round Trips, Add For Each Set-Up (Block And Level), Add For Each Anchoring Into Dirt, Add For Each Anchoring Into Asphalt Or Concrete, Add	561.70 3,471.36 1,133.15 131.31 196.96	
01 52 13 00-0015 Storage Containers (01 52 13)		
01 52 13 00-0016 MO 8' x 8' x 10' Storage Container..... For Each Delivery And Removal, Two Round Trips, Add For >12 Months, Deduct	252.35 176.76 -75.71	
01 52 13 00-0017 MO 8' x 8' x 20' Storage Container..... For Each Delivery And Removal, Two Round Trips, Add For >12 Months, Deduct	263.82 194.44 -79.15	
01 52 13 00-0018 MO 8' x 8' x 40' Storage Container..... For Each Delivery And Removal, Two Round Trips, Add For >12 Months, Deduct	312.00 391.59 -93.60	
01 52 19 Sanitary Facilities (01 52)		
01 52 19 00-0001 Portable Toilets (01 52 19) Note: Includes set-up, servicing once per week (unless task states otherwise) and removal.		
01 52 19 00-0002 WK Portable Chemical Toilet..... For Each Additional Servicing Per Unit Per Week, Add For Each Delivery, Add	65.66 25.00 26.00	
01 52 19 00-0003 MO Portable Chemical Toilet..... For Each Additional Servicing Per Unit Per Week, Add For Each Delivery, Add	196.99 25.00 26.00	
01 52 19 00-0004 WK Americans With Disabilities Act Compliant Portable Chemical Toilet..... For Each Additional Servicing Per Unit Per Week, Add For Each Delivery, Add	78.32 25.00 26.00	
01 52 19 00-0005 MO Americans With Disabilities Act Compliant Portable Chemical Toilet..... For Each Additional Servicing Per Unit Per Week, Add For Each Delivery, Add	229.83 25.00 26.00	
01 52 19 00-0006 WK Two Station Portable Handwash..... For Each Delivery, Add	52.71 26.00	
01 52 19 00-0007 MO Two Station Portable Handwash..... For Each Delivery, Add	159.90 26.00	
01 52 19 00-0008 MO 6 Station, Portable Toilets, Multi Trailer..... Note: Includes women's room (3 toilets, 2 sinks) and men's room (1 toilet, 1 urinal and 1 sink)	4,351.88	
01 52 19 00-0009 WK Service 6 Station Trailer Restrooms, 3 Times Per Week..... For One Additional Service Per Week, Add Note: For one less service per week, UOM to be negative one (-1)	2,194.84 731.61	
01 53 Temporary Construction (01 50)		
01 53 16 Temporary Decking (01 53)		

01	General Requirements
01 50	Temporary Facilities and Controls
01 53	Temporary Construction



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 53 16 00-0001		Temporary Walkways And Railings (01 53 16) Note: Includes removal after use.		
01 53 16 00-0002	SF	Temporary Wood Walkway, 3/4" Plywood On 2 x 6 Stringers	7.80	
01 53 16 00-0003	LF	Temporary Wooden Guardrail, 42" High, Posts, Handrail, And Intermediate Rail	35.11	
01 53 16 00-0004	LF	Temporary Wood Guardrail Base, 12" x 12" Timber Beam.....	14.63	
01 53 16 00-0005	RSR	Temporary Wood Stairs, Tread And Riser On 2" x 12" Stringers.....	26.29	
01 53 23		Temporary Ramps (01 53)		
01 53 23 00-0001		Temporary Plywood For Wheel Barrow Access (01 53 23) Note: Includes removal after use.		
01 53 23 00-0002	SF	Temporary Plywood For Wheel Barrow Access.....	1.70	0.52
01 55		Vehicular Access and Parking (01 50)		
01 55 23		Temporary Roads (01 55)		
01 55 23 00-0001		Temporary Stabilized Construction Entrance (01 55 23) Note: As per Caltrans detail.		
01 55 23 00-0002	SF	3" To 4" Rock Temporary Stabilized Construction Entrance Assembly	4.30	
		Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.		
01 55 23 00-0003	SF	>4" To 6" Rock Temporary Stabilized Construction Entrance Assembly	5.73	
		Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.		
01 55 23 00-0004		Rumble Trench Plate (01 55 23)		
01 55 23 00-0005	MO	8' x 10' Steel Rumble Trench Plate Rental.....	386.26	
01 55 23 00-0006	EA	Placement And Removal Of Rumble Plate	92.29	
		Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
01 55 23 00-0007	EA	Relocate And Adjust Location Of Rumble Plate.....	23.07	
		Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
01 55 23 00-0008		Temporary Road Ramps (Godwin) (01 55 23) Note: Excludes asphalt and gravel.		
01 55 23 00-0009	EA	4" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	4,727.23	205.52
01 55 23 00-0010	EA	6" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	6,434.04	308.28
01 55 23 00-0011	EA	8" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	8,891.48	411.05
01 55 23 00-0012	EA	12" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	18,480.00	513.82
01 55 23 00-0013	EA	24" Pipeline, 15' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	27,130.24	616.58
01 55 26		Traffic Control (01 55)		
01 55 26 00-0001		Temporary Removable Preformed Traffic Black Line Mask (01 55 26) Note: Includes installation and removal after use.		
01 55 26 00-0002	LF	6" Removable Traffic Black Line Mask	5.02	
01 55 26 00-0003	LF	8" Removable Traffic Black Line Mask	6.06	
01 55 26 00-0004		Temporary Preformed Traffic Line Tape (01 55 26) Note: Includes installation and removal after use.		
01 55 26 00-0005	LF	4" Reflective Removable Traffic Line Tape.....	5.09	
01 55 26 00-0006	LF	6" Reflective Removable Traffic Line Tape.....	6.94	
01 55 26 00-0007	LF	8" Reflective Removable Traffic Line Tape.....	8.70	
01 55 26 00-0008		Temporary Painted Traffic Lines (01 55 26) Note: Includes installation and removal after use.		
01 55 26 00-0009	LF	4" Temporary Painted Traffic Lines.....	2.20	
		For Not Removed, Deduct	-1.46	
01 55 26 00-0010	LF	6" Temporary Painted Traffic Lines.....	2.91	
		For Not Removed, Deduct	-2.01	
01 55 26 00-0011	LF	8" Temporary Painted Traffic Lines.....	3.65	
		For Not Removed, Deduct	-2.53	
01 55 26 00-0012	EA	2" High x 2" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad.....	3.13	
01 55 26 00-0013	EA	2" High x 4" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad.....	3.16	
01 55 26 00-0014		Temporary Pedestrian Traffic Control (01 55 26)		
01 55 26 00-0015	CLF	1", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange	11.44	
01 55 26 00-0016	CLF	2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange	15.24	
01 55 26 00-0017	CLF	3/4", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow.....	8.54	
01 55 26 00-0018	CLF	2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow.....	10.61	
01 55 26 00-0019	CLF	3", 4 Mil Polyethylene Printed Barricade Tape, Non Fluorescent.....	11.74	
01 55 26 00-0020	CLF	6", 4 Mil Polyethylene Printed Barricade Tape, Non Fluorescent.....	16.59	



General Requirements			01
Temporary Facilities and Controls			01 50
Vehicular Access and Parking			01 55

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0021 CLF 1" Exterior Vinyl Tape (Warning Tape).....	13.92	
01 55 26 00-0022 CLF 2" Exterior Vinyl Tape (Warning Tape).....	19.96	
01 55 26 00-0023 CLF 3" Exterior Vinyl Tape (Warning Tape).....	25.61	
01 55 26 00-0024 CLF 4" Exterior Vinyl Tape (Warning Tape).....	29.99	
01 55 26 00-0025 Linear Delineation System, Temporary Or Permanent (01 55 26)		
Note: High visibility reflective sheeting strips. Scotchlite as manufactured by 3M.		
01 55 26 00-0026 LF 4" Linear Delineation System.....	10.92	
01 55 26 00-0027 LF 6" Linear Delineation System.....	14.78	
01 55 26 00-0028 Temporary Traffic Protection (01 55 26)		
01 55 26 00-0029 Temporary Portable Traffic Control Device Usage (01 55 26 00-0028)		
Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0105 for delivery, placing and removal.		
01 55 26 00-0030 DAY 28" Cone With Reflective Collar.....	0.83	
01 55 26 00-0031 WK 28" Cone With Reflective Collar.....	2.49	
01 55 26 00-0032 MO 28" Cone With Reflective Collar.....	7.47	
01 55 26 00-0033 DAY Vertical Panel.....	2.51	
01 55 26 00-0034 WK Vertical Panel.....	7.52	
01 55 26 00-0035 MO Vertical Panel.....	22.55	
01 55 26 00-0036 DAY Channelizer Drum.....	2.72	
01 55 26 00-0037 WK Channelizer Drum.....	8.16	
01 55 26 00-0038 MO Channelizer Drum.....	24.48	
01 55 26 00-0039 DAY Stackable Channelizer Panel.....	1.29	
01 55 26 00-0040 WK Stackable Channelizer Panel.....	3.86	
01 55 26 00-0041 MO Stackable Channelizer Panel.....	11.57	
01 55 26 00-0042 DAY Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	1.78	
01 55 26 00-0043 WK Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	5.34	
01 55 26 00-0044 MO Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	16.03	
01 55 26 00-0045 DAY Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side.....	3.95	
01 55 26 00-0046 WK Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side.....	11.84	
01 55 26 00-0047 MO Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side.....	35.53	
01 55 26 00-0048 DAY Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	4.50	
01 55 26 00-0049 WK Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	13.50	
01 55 26 00-0050 MO Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	40.49	
01 55 26 00-0051 DAY Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	8.23	
01 55 26 00-0052 WK Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	24.69	
01 55 26 00-0053 MO Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	74.06	
01 55 26 00-0054 DAY Up To 10' Wide A Frame Barricade.....	4.51	
01 55 26 00-0055 WK Up To 10' Wide A Frame Barricade.....	13.54	
01 55 26 00-0056 MO Up To 10' Wide A Frame Barricade.....	40.62	
01 55 26 00-0057 DAY Type A Or C Flasher.....	0.92	
01 55 26 00-0058 WK Type A Or C Flasher.....	2.76	
01 55 26 00-0059 MO Type A Or C Flasher.....	8.28	
01 55 26 00-0060 DAY Type B Flasher (High Intensity).....	4.99	
01 55 26 00-0061 WK Type B Flasher (High Intensity).....	14.97	
01 55 26 00-0062 MO Type B Flasher (High Intensity).....	44.91	
01 55 26 00-0063 Temporary Traffic Barriers Usage (01 55 26 00-0028)		
Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0105 for delivery, placing and removal.		
01 55 26 00-0064 DAY 6' Long Portable Parking Curbs.....	2.15	
01 55 26 00-0065 WK 6' Long Portable Parking Curbs.....	6.45	
01 55 26 00-0066 MO 6' Long Portable Parking Curbs.....	19.34	
01 55 26 00-0067 DAY 6' Long Portable Speed Bumps.....	6.36	
01 55 26 00-0068 WK 6' Long Portable Speed Bumps.....	19.08	
01 55 26 00-0069 MO 6' Long Portable Speed Bumps.....	57.24	
01 55 26 00-0070 DAY Up To 12.5' Concrete Traffic Barrier.....	15.28	
01 55 26 00-0071 WK Up To 12.5' Concrete Traffic Barrier.....	45.84	
01 55 26 00-0072 MO Up To 12.5' Concrete Traffic Barrier.....	137.51	
01 55 26 00-0073 DAY >12.5' To 20' Concrete Traffic Barrier.....	30.56	
01 55 26 00-0074 WK >12.5' To 20' Concrete Traffic Barrier.....	91.68	
01 55 26 00-0075 MO >12.5' To 20' Concrete Traffic Barrier.....	275.03	
01 55 26 00-0076 DAY 6' x 32" Tall Plastic Water Barrier.....	18.25	
01 55 26 00-0077 WK 6' x 32" Tall Plastic Water Barrier.....	54.74	
01 55 26 00-0078 MO 6' x 32" Tall Plastic Water Barrier.....	164.23	
01 55 26 00-0079 DAY 6' x 46" Tall Plastic Water Barrier.....	26.06	
01 55 26 00-0080 WK 6' x 46" Tall Plastic Water Barrier.....	78.17	
01 55 26 00-0081 MO 6' x 46" Tall Plastic Water Barrier.....	234.50	
01 55 26 00-0082 DAY Sand Filled Crash Attenuator Barrels.....	10.20	
01 55 26 00-0083 WK Sand Filled Crash Attenuator Barrels.....	30.60	
01 55 26 00-0084 MO Sand Filled Crash Attenuator Barrels.....	91.79	
01 55 26 00-0085 MO 24" Wide x 32" High x 32' Long, Anchorless Water Filler, Non Redirective, Bi-Directional Impact Attenuator (ABSORB 350® BARRIER).....	1,440.40	
Note: Consists of 8 bays with nose piece at the front of the system.		

01	General Requirements
01 50	Temporary Facilities and Controls
01 55	Vehicular Access and Parking



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0086 Temporary Portable Signs And Message Displays Usage (01 55 26 00-0028)		
Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0105 for delivery, placing and removal.		
01 55 26 00-0087 DAY Mesh Or Vinyl Roll-up Sign With Stand	8.01	
01 55 26 00-0088 WK Mesh Or Vinyl Roll-up Sign With Stand	24.02	
01 55 26 00-0089 MO Mesh Or Vinyl Roll-up Sign With Stand	72.06	
01 55 26 00-0090 DAY Aluminum Sign And Post	3.98	
01 55 26 00-0091 WK Aluminum Sign And Post	11.93	
01 55 26 00-0092 MO Aluminum Sign And Post	35.80	
01 55 26 00-0093 DAY Aluminum Sign And A Frame Stand	6.05	
01 55 26 00-0094 WK Aluminum Sign And A Frame Stand	18.16	
01 55 26 00-0095 MO Aluminum Sign And A Frame Stand	54.49	
01 55 26 00-0096 DAY Trailer Mounted Flashing Arrow Board	135.00	
01 55 26 00-0097 WK Trailer Mounted Flashing Arrow Board	373.66	
01 55 26 00-0098 MO Trailer Mounted Flashing Arrow Board	988.39	
01 55 26 00-0099 DAY Trailer Mounted Portable Variable Message Sign (PVMS)	363.99	
01 55 26 00-0100 WK Trailer Mounted Portable Variable Message Sign (PVMS)	970.64	
01 55 26 00-0101 MO Trailer Mounted Portable Variable Message Sign (PVMS)	1,941.28	
01 55 26 00-0102 DAY Two Head, Trailer Mounted Traffic Signal System (Set Of Two)	1,361.99	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.		
01 55 26 00-0103 WK Two Head, Trailer Mounted Traffic Signal System (Set Of Two)	4,085.97	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.		
01 55 26 00-0104 MO Two Head, Trailer Mounted Traffic Signal System (Set Of Two)	12,257.91	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.		
01 55 26 00-0105 Place And Remove Temporary Traffic Protection Using Truck (01 55 26 00-0028)		
Note: Includes delivery and return up to 15 miles. See CSI section 01 74 19 00-0029 for delivery >15 miles.		
01 55 26 00-0106 EA Placement And Removal Of Up To 250 Cones Using Truck	3.63	
01 55 26 00-0107 EA Placement And Removal Of >250 Cones Using Truck	3.17	
01 55 26 00-0108 EA Placement And Removal Of Up To 250 Panels/Channelizers Using Truck	5.99	
01 55 26 00-0109 EA Placement And Removal Of >250 Panels/Channelizers Using Truck	4.99	
01 55 26 00-0110 EA Placement And Removal Of Up To 250 Barricades Using Truck	9.07	
01 55 26 00-0111 EA Placement And Removal Of >250 Barricades Using Truck	7.26	
01 55 26 00-0112 EA Placement And Removal Of Curbs/Speed Bumps Using Truck	9.07	
01 55 26 00-0113 EA Placement And Removal Of Portable Sign And Stand Using Truck	5.44	
01 55 26 00-0114 EA Placement And Removal Of Aluminum Sign And Post Using Truck	22.69	
01 55 26 00-0115 EA Placement And Removal Of Trailer Mounted Boards And Signals Using Truck	68.07	
01 55 26 00-0116 EA Placement And Removal Of Up To 12.5' Concrete Traffic Barrier	92.29	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	230.73	
For 2 Barriers, Add	83.06	
For 3 Barriers, Add	27.69	
01 55 26 00-0117 EA Placement And Removal Of >12.5' Concrete Traffic Barrier	138.43	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	346.08	
For 2 Barriers, Add	124.59	
For 3 Barriers, Add	41.53	
01 55 26 00-0118 EA Placement And Removal Of Plastic Water Barrier	53.09	
Note: Includes water. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rental tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	115.35	
For 2 Barriers, Add	41.53	
For 3 Barriers, Add	13.84	
01 55 26 00-0119 EA Placement And Removal Of Crash Attenuator Barrels	69.22	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	173.05	
For 2 Barriers, Add	62.30	
For 3 Barriers, Add	20.77	
01 55 26 00-0120 EA Placement And Removal Of 24" Wide x 32" High x 32' Long, Anchorless Water Filler, Non Redirective, Bi-Directional Impact Attenuator (ABSORB 350® BARRIER)	507.59	
Note: Consists of 6 bays with nose piece at the front of the system attached and anchored in accordance with the manufactures instructions. Includes water. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rental tasks, 01 71 13 00-0000 for mobilization.		
01 55 26 00-0121 Place And Remove Temporary Traffic Protection From Roadside (Daily) (01 55 26 00-0028)		
01 55 26 00-0122 EA Placement And Removal Of Up To 250 Cones By Hand From Roadside	2.27	
01 55 26 00-0123 EA Placement And Removal Of >250 Cones By Hand From Roadside	1.81	
01 55 26 00-0124 EA Placement And Removal Of Up To 250 Panels/Channelizers By Hand From Roadside	3.02	
01 55 26 00-0125 EA Placement And Removal Of >250 Panels/Channelizers By Hand From Roadside	2.41	
01 55 26 00-0126 EA Placement And Removal Of Up To 250 Barricades By Hand From Roadside	4.54	
01 55 26 00-0127 EA Placement And Removal Of >250 Barricades By Hand From Roadside	3.63	
01 55 26 00-0128 EA Placement And Removal Of Portable Sign And Stand From Roadside	2.76	
01 55 26 00-0129 EA Placement And Removal Of Trailer Mounted Boards And Signals From Roadside	34.03	



General Requirements			01	Σ
Temporary Facilities and Controls			01 50	
Vehicular Access and Parking			01 55	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0130	EA	Relocate Concrete Traffic Barrier Note: Excludes flatbed truck (if required). If lifting equipment is not available on site. See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.	46.14	
01 55 26 00-0131		Temporary Rumble Strips (01 55 26) Note: Includes removal after use.		
01 55 26 00-0132	LF	1/4" High, 4" Wide, Polymer Tape Temporary Rumble Strip.....	13.03	
01 55 26 00-0133	LF	1/2" High, 3-1/2" Wide, Polycarbonate Temporary Rumble Strip.....	9.37	
01 56		Temporary Barriers and Enclosures (01 50) Note: Includes removal after use.		
01 56 16		Temporary Dust Barriers (01 56)		
01 56 16 00-0001		Temporary Stud Wall (01 56 16) Note: Includes removal after use.		
01 56 16 00-0002		Temporary Stud Wall With Drywall (01 56 16 00-0001) Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, drywall taped and finished and removal after use. Excludes paint.		
01 56 16 00-0003		Temporary Stud Wall With Drywall (01 56 16 00-0002)		
01 56 16 00-0004	SF	3/8" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center For Metal Studs 24" On Center, Add/Deduct	6.64 0.47	
01 56 16 00-0005	SF	1/2" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center For Metal Studs 24" On Center, Add/Deduct	6.64 0.47	
01 56 16 00-0006	SF	5/8" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center For Metal Studs 24" On Center, Add/Deduct	6.73 0.47	
01 56 16 00-0007	SF	3/8" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center For Metal Studs 24" On Center, Add/Deduct	9.08 0.57	
01 56 16 00-0008	SF	1/2" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center For Metal Studs 24" On Center, Add/Deduct	9.08 0.57	
01 56 16 00-0009	SF	5/8" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center For Metal Studs 24" On Center, Add/Deduct	9.26 0.57	
01 56 16 00-0010		Temporary Stud Wall With Fire Rated Drywall (01 56 16 00-0002)		
01 56 16 00-0011	SF	1/2" Type C Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center For Metal Studs 24" On Center, Add/Deduct	6.74 0.47	
01 56 16 00-0012	SF	5/8" Type C Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center For Metal Studs 24" On Center, Add/Deduct	6.77 0.47	
01 56 16 00-0013	SF	5/8" Type X Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center For Metal Studs 24" On Center, Add/Deduct	6.72 0.47	
01 56 16 00-0014	SF	3/4" Fire Rated (Sheetrock® Ultracode®) Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center For Metal Studs 24" On Center, Add/Deduct	7.42 0.47	
01 56 16 00-0015	SF	1/2" Type C Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center For Metal Studs 24" On Center, Add/Deduct	9.28 0.57	
01 56 16 00-0016	SF	5/8" Type C Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center For Metal Studs 24" On Center, Add/Deduct	9.35 0.57	
01 56 16 00-0017	SF	5/8" Type X Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center For Metal Studs 24" On Center, Add/Deduct	9.24 0.57	
01 56 16 00-0018	SF	3/4" Fire Rated (Sheetrock® Ultracode®) Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center For Metal Studs 24" On Center, Add/Deduct	10.65 0.57	
01 56 16 00-0019		Temporary Stud Wall With Oriented Strand Board (OSB) (01 56 16 00-0001) Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, oriented strand board (OSB) wall sheathing, and removal after use. Excludes paint.		
01 56 16 00-0020	SF	7/16" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center For Metal Studs 24" On Center, Add/Deduct	6.74 0.47	
01 56 16 00-0021	SF	1/2" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center For Metal Studs 24" On Center, Add/Deduct	6.81 0.47	
01 56 16 00-0022	SF	5/8" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center For Metal Studs 24" On Center, Add/Deduct	7.01 0.47	
01 56 16 00-0023	SF	3/4" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center For Metal Studs 24" On Center, Add/Deduct	7.12 0.47	
01 56 16 00-0024	SF	7/16" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center For Metal Studs 24" On Center, Add/Deduct	9.29 0.57	
01 56 16 00-0025	SF	1/2" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center For Metal Studs 24" On Center, Add/Deduct	9.43 0.57	
01 56 16 00-0026	SF	5/8" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center For Metal Studs 24" On Center, Add/Deduct	9.83 0.57	
01 56 16 00-0027	SF	3/4" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center For Metal Studs 24" On Center, Add/Deduct	10.04 0.57	
01 56 16 00-0028		Temporary Stud Wall With BC Plywood (01 56 16 00-0001) Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, interior/exterior BC plywood wall sheathing, and removal after use. Excludes paint.		
01 56 16 00-0029	SF	3/8" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center For Metal Studs 24" On Center, Add/Deduct	7.22 0.47	

01	General Requirements
01 50	Temporary Facilities and Controls
01 56	Temporary Barriers and Enclosures



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 16 00-0030 SF 1/2" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	7.47	
For Metal Studs 24" On Center, Add/Deduct	0.47	
01 56 16 00-0031 SF 5/8" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	7.59	
For Metal Studs 24" On Center, Add/Deduct	0.47	
01 56 16 00-0032 SF 3/4" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	7.78	
For Metal Studs 24" On Center, Add/Deduct	0.47	
01 56 16 00-0033 SF 3/8" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	10.24	
For Metal Studs 24" On Center, Add/Deduct	0.57	
01 56 16 00-0034 SF 1/2" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	10.75	
For Metal Studs 24" On Center, Add/Deduct	0.57	
01 56 16 00-0035 SF 5/8" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	10.98	
For Metal Studs 24" On Center, Add/Deduct	0.57	
01 56 16 00-0036 SF 3/4" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center	11.37	
For Metal Studs 24" On Center, Add/Deduct	0.57	
01 56 16 00-0037 Temporary Stud Wall With Plastic Sheeting (01 56 16 00-0001)		
Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, 6 Mil plastic sheeting, and removal after use.		
01 56 16 00-0038 SF 6 Mil, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center	3.91	
For Metal Studs 24" On Center, Add/Deduct	0.35	
01 56 16 00-0039 SF 6 Mil, Fire Retardant, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center.....	3.99	
For Metal Studs 24" On Center, Add/Deduct	0.35	
01 56 16 00-0040 SF 6 Mil, Fire Retardant, Anti-Static, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center	4.02	
For Metal Studs 24" On Center, Add/Deduct	0.35	
01 56 16 00-0041 SF 6 Mil, Reinforced, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center	4.01	
For Metal Studs 24" On Center, Add/Deduct	0.35	
01 56 16 00-0042 SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center	4.08	
For Metal Studs 24" On Center, Add/Deduct	0.35	
01 56 16 00-0043 Temporary Doors (01 56 16 00-0001)		
Note: For temporary stud walls. Includes removal after use.		
01 56 16 00-0044 EA Temporary Metal Door And Frame	654.41	
Note: Painted with panic hardware, lockset, threshold and smoke seals. Remove after use.		
01 56 26 Temporary Fencing (01 56)		
01 56 26 00-0001 Temporary Fencing (01 56 26)		
Note: Per ASTM A392-06 Standards		
01 56 26 00-0002 Temporary Chain Link Fence (01 56 26 00-0001)		
Note: Includes delivery, set-up (driving posts) and removal. Excludes auguring/drilling for posts. See CSI section 02 41 19 13-0026 for core drilling in asphalt or concrete, 32 31 13 13-0001 for augering and backfill of posts.		
01 56 26 00-0003 Temporary Chain Link Fence, Up To 6 Months (01 56 26 00-0002)		
01 56 26 00-0004 LF Temporary 4' High Chain Link Fence And Posts, Up To 6 Months.....	6.49	
For >100 To 250, Deduct	-0.15	
For >250 To 500, Deduct	-0.31	
For >500, Deduct	-0.46	
For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0005 LF Temporary 6' High Chain Link Fence And Posts, Up To 6 Months.....	7.22	
For >100 To 250, Deduct	-0.17	
For >250 To 500, Deduct	-0.35	
For >500, Deduct	-0.52	
For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0006 LF Temporary 8' High Chain Link Fence And Posts, Up To 6 Months.....	9.95	
For >100 To 250, Deduct	-0.29	
For >250 To 500, Deduct	-0.58	
For >500, Deduct	-0.87	
For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0007 LF Temporary 10' High Chain Link Fence And Posts, Up To 6 Months.....	21.88	
For >100 To 250, Deduct	-0.87	
For >250 To 500, Deduct	-1.73	
For >500, Deduct	-2.60	
For Each LF Shade Cloth, Add	4.75	
01 56 26 00-0008 Temporary Chain Link Fence, >6 To 12 Months (01 56 26 00-0002)		
01 56 26 00-0009 LF Temporary 4' High Chain Link Fence And Posts, >6 To 12 Months	6.80	
For >100 To 250, Deduct	-0.17	
For >250 To 500, Deduct	-0.34	
For >500, Deduct	-0.51	
For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0010 LF Temporary 6' High Chain Link Fence And Posts, >6 To 12 Months	7.56	
For >100 To 250, Deduct	-0.19	
For >250 To 500, Deduct	-0.38	
For >500, Deduct	-0.57	
For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0011 LF Temporary 8' High Chain Link Fence And Posts, >6 To 12 Months	10.52	
For >100 To 250, Deduct	-0.32	
For >250 To 500, Deduct	-0.64	
For >500, Deduct	-0.96	
For Each LF Shade Cloth, Add	3.60	



General Requirements			01
Temporary Facilities and Controls			01 50
Temporary Barriers and Enclosures			01 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0012	LF		Temporary 10' High Chain Link Fence And Posts, >6 To 12 Months	23.61	
			For >100 To 250, Deduct	-0.95	
			For >250 To 500, Deduct	-1.91	
			For >500, Deduct	-2.86	
			For Each LF Shade Cloth, Add	4.75	
01 56 26 00-0013 Temporary Chain Link Fence, >12 To 18 Months (01 56 26 00-0002)					
01 56 26 00-0014	LF		Temporary 4' High Chain Link Fence And Posts, >12 To 18 Months	7.14	
			For >100 To 250, Deduct	-0.19	
			For >250 To 500, Deduct	-0.37	
			For >500, Deduct	-0.56	
			For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0015	LF		Temporary 6' High Chain Link Fence And Posts, >12 To 18 Months	7.95	
			For >100 To 250, Deduct	-0.21	
			For >250 To 500, Deduct	-0.42	
			For >500, Deduct	-0.63	
			For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0016	LF		Temporary 8' High Chain Link Fence And Posts, >12 To 18 Months	11.18	
			For >100 To 250, Deduct	-0.35	
			For >250 To 500, Deduct	-0.71	
			For >500, Deduct	-1.06	
			For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0017	LF		Temporary 10' High Chain Link Fence And Posts, >12 To 18 Months	25.51	
			For >100 To 250, Deduct	-1.05	
			For >250 To 500, Deduct	-2.10	
			For >500, Deduct	-3.14	
			For Each LF Shade Cloth, Add	4.75	
01 56 26 00-0018 Temporary Chain Link Fence, >18 Months (01 56 26 00-0002)					
01 56 26 00-0019	LF		Temporary 4' High Chain Link Fence And Posts, >18 Months	7.51	
			For >100 To 250, Deduct	-0.20	
			For >250 To 500, Deduct	-0.41	
			For >500, Deduct	-0.61	
			For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0020	LF		Temporary 6' High Chain Link Fence And Posts, >18 Months	8.34	
			For >100 To 250, Deduct	-0.23	
			For >250 To 500, Deduct	-0.46	
			For >500, Deduct	-0.69	
			For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0021	LF		Temporary 8' High Chain Link Fence And Posts, >18 Months	11.87	
			For >100 To 250, Deduct	-0.39	
			For >250 To 500, Deduct	-0.78	
			For >500, Deduct	-1.16	
			For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0022	LF		Temporary 10' High Chain Link Fence And Posts, >18 Months.....	27.61	
			For >100 To 250, Deduct	-1.15	
			For >250 To 500, Deduct	-2.31	
			For >500, Deduct	-3.46	
			For Each LF Shade Cloth, Add	4.75	
01 56 26 00-0023 Temporary Chain Link Fence Gates (01 56 26 00-0001)					
Note: Includes delivery, set-up (driving posts) and removal. Excludes auguring/drilling for posts. See CSI section 02 41 19 13-0026 for core drilling in asphalt or concrete, 32 31 13 13-0001 for augering and backfill of posts.					
01 56 26 00-0024 Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0023)					
01 56 26 00-0025 4' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)					
01 56 26 00-0026	EA		4' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	259.18	
			For Each LF Shade Cloth, Add	14.55	
01 56 26 00-0027	EA		10' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	440.34	
			For Each LF Shade Cloth, Add	36.37	
01 56 26 00-0028	EA		12' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	493.08	
			For Each LF Shade Cloth, Add	43.64	
01 56 26 00-0029	EA		15' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	561.25	
			For Each LF Shade Cloth, Add	54.55	
01 56 26 00-0030	EA		20' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	672.28	
			For Each LF Shade Cloth, Add	72.74	
01 56 26 00-0031	EA		24' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	748.29	
			For Each LF Shade Cloth, Add	87.29	
01 56 26 00-0032 6' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)					
01 56 26 00-0033	EA		4' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	277.48	
			For Each LF Shade Cloth, Add	23.19	
01 56 26 00-0034	EA		10' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	475.55	
			For Each LF Shade Cloth, Add	57.96	
01 56 26 00-0035	EA		12' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	533.69	
			For Each LF Shade Cloth, Add	69.56	
01 56 26 00-0036	EA		15' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	618.43	
			For Each LF Shade Cloth, Add	86.95	
01 56 26 00-0037	EA		20' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	747.57	
			For Each LF Shade Cloth, Add	115.93	

01	General Requirements
01 50	Temporary Facilities and Controls
01 56	Temporary Barriers and Enclosures



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0038	EA	24' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months..... <i>For Each LF Shade Cloth, Add</i>	848.24 139.11	
01 56 26 00-0039		8' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0040	EA	4' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months..... <i>For Each LF Shade Cloth, Add</i>	309.84 32.73	
01 56 26 00-0041	EA	10' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months..... <i>For Shade Cloth, Add</i>	544.99 81.83	
01 56 26 00-0042	EA	12' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months..... <i>For Shade Cloth, Add</i>	609.53 98.20	
01 56 26 00-0043	EA	15' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months..... <i>For Shade Cloth, Add</i>	697.78 122.75	
01 56 26 00-0044	EA	20' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months..... <i>For Shade Cloth, Add</i>	852.77 163.66	
01 56 26 00-0045	EA	24' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months..... <i>For Shade Cloth, Add</i>	989.64 196.40	
01 56 26 00-0046		10' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)		
01 56 26 00-0047	EA	4' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months..... <i>For Each LF Shade Cloth, Add</i>	375.39 43.19	
01 56 26 00-0048	EA	10' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months..... <i>For Each LF Shade Cloth, Add</i>	653.58 107.97	
01 56 26 00-0049	EA	12' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months..... <i>For Each LF Shade Cloth, Add</i>	732.46 129.57	
01 56 26 00-0050	EA	15' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months..... <i>For Each LF Shade Cloth, Add</i>	837.26 161.96	
01 56 26 00-0051	EA	20' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months..... <i>For Each LF Shade Cloth, Add</i>	1,023.50 215.94	
01 56 26 00-0052	EA	24' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months..... <i>For Each LF Shade Cloth, Add</i>	1,182.34 259.13	
01 56 26 00-0053		Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0023)		
01 56 26 00-0054		4' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0055	EA	4' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	268.92 14.55	
01 56 26 00-0056	EA	10' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	455.50 36.37	
01 56 26 00-0057	EA	12' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	510.39 43.64	
01 56 26 00-0058	EA	15' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	580.73 54.55	
01 56 26 00-0059	EA	20' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	696.09 72.74	
01 56 26 00-0060	EA	24' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	774.27 87.29	
01 56 26 00-0061		6' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0062	EA	4' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	287.66 23.19	
01 56 26 00-0063	EA	10' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	491.39 57.96	
01 56 26 00-0064	EA	12' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	551.80 69.56	
01 56 26 00-0065	EA	15' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	638.80 86.95	
01 56 26 00-0066	EA	20' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	772.46 115.93	
01 56 26 00-0067	EA	24' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	875.40 139.11	
01 56 26 00-0068		8' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		
01 56 26 00-0069	EA	4' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	321.05 32.73	
01 56 26 00-0070	EA	10' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Shade Cloth, Add</i>	562.42 81.83	
01 56 26 00-0071	EA	12' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Shade Cloth, Add</i>	629.45 98.20	
01 56 26 00-0072	EA	15' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Shade Cloth, Add</i>	720.18 122.75	
01 56 26 00-0073	EA	20' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Shade Cloth, Add</i>	880.15 163.66	
01 56 26 00-0074	EA	24' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Shade Cloth, Add</i>	1,019.52 196.40	
01 56 26 00-0075		10' High, Temporary Chain Link Fence Gates, >6 To 12 Months (01 56 26 00-0053)		



General Requirements			01	Σ
Temporary Facilities and Controls			01 50	
Temporary Barriers and Enclosures			01 56	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0076	EA	4' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	389.39	
		For Each LF Shade Cloth, Add	43.19	
01 56 26 00-0077	EA	10' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	675.36	
		For Each LF Shade Cloth, Add	107.97	
01 56 26 00-0078	EA	12' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	757.35	
		For Each LF Shade Cloth, Add	129.57	
01 56 26 00-0079	EA	15' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	865.26	
		For Each LF Shade Cloth, Add	161.96	
01 56 26 00-0080	EA	20' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	1,057.73	
		For Each LF Shade Cloth, Add	215.94	
01 56 26 00-0081	EA	24' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months	1,219.68	
		For Each LF Shade Cloth, Add	259.13	
01 56 26 00-0082		Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0023)		
01 56 26 00-0083		4' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0084	EA	4' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	279.15	
		For Each LF Shade Cloth, Add	14.55	
01 56 26 00-0085	EA	10' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	471.41	
		For Each LF Shade Cloth, Add	36.37	
01 56 26 00-0086	EA	12' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	528.58	
		For Each LF Shade Cloth, Add	43.64	
01 56 26 00-0087	EA	15' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	601.19	
		For Each LF Shade Cloth, Add	54.55	
01 56 26 00-0088	EA	20' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	721.09	
		For Each LF Shade Cloth, Add	72.74	
01 56 26 00-0089	EA	24' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months	801.54	
		For Each LF Shade Cloth, Add	87.29	
01 56 26 00-0090		6' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0091	EA	4' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	298.36	
		For Each LF Shade Cloth, Add	23.19	
01 56 26 00-0092	EA	10' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	508.03	
		For Each LF Shade Cloth, Add	57.96	
01 56 26 00-0093	EA	12' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	570.81	
		For Each LF Shade Cloth, Add	69.56	
01 56 26 00-0094	EA	15' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	660.18	
		For Each LF Shade Cloth, Add	86.95	
01 56 26 00-0095	EA	20' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	798.60	
		For Each LF Shade Cloth, Add	115.93	
01 56 26 00-0096	EA	24' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months	903.91	
		For Each LF Shade Cloth, Add	139.11	
01 56 26 00-0097		8' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0098	EA	4' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	332.81	
		For Each LF Shade Cloth, Add	32.73	
01 56 26 00-0099	EA	10' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	580.72	
		For Shade Cloth, Add	81.83	
01 56 26 00-0100	EA	12' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	650.36	
		For Shade Cloth, Add	98.20	
01 56 26 00-0101	EA	15' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	743.71	
		For Shade Cloth, Add	122.75	
01 56 26 00-0102	EA	20' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	908.91	
		For Shade Cloth, Add	163.66	
01 56 26 00-0103	EA	24' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months	1,050.88	
		For Shade Cloth, Add	196.40	
01 56 26 00-0104		10' High, Temporary Chain Link Fence Gates, >12 To 18 Months (01 56 26 00-0082)		
01 56 26 00-0105	EA	4' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	404.10	
		For Each LF Shade Cloth, Add	43.19	
01 56 26 00-0106	EA	10' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	698.23	
		For Each LF Shade Cloth, Add	107.97	
01 56 26 00-0107	EA	12' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	783.49	
		For Each LF Shade Cloth, Add	129.57	
01 56 26 00-0108	EA	15' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	894.67	
		For Each LF Shade Cloth, Add	161.96	
01 56 26 00-0109	EA	20' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	1,093.67	
		For Each LF Shade Cloth, Add	215.94	
01 56 26 00-0110	EA	24' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months	1,258.89	
		For Each LF Shade Cloth, Add	259.13	
01 56 26 00-0111		Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0023)		
01 56 26 00-0112		4' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)		
01 56 26 00-0113	EA	4' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	289.37	
		For Each LF Shade Cloth, Add	14.55	
01 56 26 00-0114	EA	10' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	487.32	
		For Each LF Shade Cloth, Add	36.37	

01	General Requirements
01 50	Temporary Facilities and Controls
01 56	Temporary Barriers and Enclosures



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0115	EA	12' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	546.76	
		<i>For Each LF Shade Cloth, Add</i>	43.64	
01 56 26 00-0116	EA	15' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	621.65	
		<i>For Each LF Shade Cloth, Add</i>	54.55	
01 56 26 00-0117	EA	20' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	746.10	
		<i>For Each LF Shade Cloth, Add</i>	72.74	
01 56 26 00-0118	EA	24' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months	828.82	
		<i>For Each LF Shade Cloth, Add</i>	87.29	
01 56 26 00-0119 6' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)				
01 56 26 00-0120	EA	4' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	309.05	
		<i>For Each LF Shade Cloth, Add</i>	23.19	
01 56 26 00-0121	EA	10' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	524.66	
		<i>For Each LF Shade Cloth, Add</i>	57.96	
01 56 26 00-0122	EA	12' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	589.82	
		<i>For Each LF Shade Cloth, Add</i>	69.56	
01 56 26 00-0123	EA	15' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	681.57	
		<i>For Each LF Shade Cloth, Add</i>	86.95	
01 56 26 00-0124	EA	20' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	824.74	
		<i>For Each LF Shade Cloth, Add</i>	115.93	
01 56 26 00-0125	EA	24' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months	932.43	
		<i>For Each LF Shade Cloth, Add</i>	139.11	
01 56 26 00-0126 8' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)				
01 56 26 00-0127	EA	4' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	344.57	
		<i>For Each LF Shade Cloth, Add</i>	32.73	
01 56 26 00-0128	EA	10' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	599.02	
		<i>For Shade Cloth, Add</i>	81.83	
01 56 26 00-0129	EA	12' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	671.28	
		<i>For Shade Cloth, Add</i>	98.20	
01 56 26 00-0130	EA	15' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	767.23	
		<i>For Shade Cloth, Add</i>	122.75	
01 56 26 00-0131	EA	20' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	937.66	
		<i>For Shade Cloth, Add</i>	163.66	
01 56 26 00-0132	EA	24' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months	1,082.25	
		<i>For Shade Cloth, Add</i>	196.40	
01 56 26 00-0133 10' High, Temporary Chain Link Fence Gates, >18 Months (01 56 26 00-0111)				
01 56 26 00-0134	EA	4' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	418.80	
		<i>For Each LF Shade Cloth, Add</i>	43.19	
01 56 26 00-0135	EA	10' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	721.11	
		<i>For Each LF Shade Cloth, Add</i>	107.97	
01 56 26 00-0136	EA	12' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	809.63	
		<i>For Each LF Shade Cloth, Add</i>	129.57	
01 56 26 00-0137	EA	15' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	924.08	
		<i>For Each LF Shade Cloth, Add</i>	161.96	
01 56 26 00-0138	EA	20' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	1,129.61	
		<i>For Each LF Shade Cloth, Add</i>	215.94	
01 56 26 00-0139	EA	24' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months	1,298.10	
		<i>For Each LF Shade Cloth, Add</i>	259.13	
01 56 26 00-0140 Temporary Chain Link Fence Panels (Portable) (01 56 26 00-0001)				
Note: Includes delivery, set-up and removal. Excludes sandbags.				
01 56 26 00-0141 Temporary Chain Link Fence Panels (Portable), Up To 6 Months (01 56 26 00-0140)				
01 56 26 00-0142	LF	Temporary 4' High Chain Link Fence Panels (Portable), Up To 6 Months	7.09	
		<i>For >100 To 250, Deduct</i>	-0.18	
		<i>For >250 To 500, Deduct</i>	-0.37	
		<i>For >500, Deduct</i>	-0.55	
		<i>For Each LF Shade Cloth, Add</i>	1.60	
01 56 26 00-0143	LF	Temporary 6' High Chain Link Fence Panels (Portable), Up To 6 Months	7.87	
		<i>For >100 To 250, Deduct</i>	-0.21	
		<i>For >250 To 500, Deduct</i>	-0.41	
		<i>For >500, Deduct</i>	-0.62	
		<i>For Each LF Shade Cloth, Add</i>	2.55	
01 56 26 00-0144	LF	Temporary 8' High Chain Link Fence Panels (Portable), Up To 6 Months	10.73	
		<i>For >100 To 250, Deduct</i>	-0.33	
		<i>For >250 To 500, Deduct</i>	-0.66	
		<i>For >500, Deduct</i>	-0.99	
		<i>For Each LF Shade Cloth, Add</i>	3.60	
01 56 26 00-0145 Temporary Chain Link Fence Panels (Portable), >6 To 12 Months (01 56 26 00-0140)				
01 56 26 00-0146	LF	Temporary 4' High Chain Link Fence Panels (Portable), >6 To 12 Months	7.40	
		<i>For >100 To 250, Deduct</i>	-0.20	
		<i>For >250 To 500, Deduct</i>	-0.40	
		<i>For >500, Deduct</i>	-0.60	
		<i>For Each LF Shade Cloth, Add</i>	1.60	



General Requirements			01
Temporary Facilities and Controls			01 50
Temporary Barriers and Enclosures			01 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0147	LF		Temporary 6' High Chain Link Fence Panels (Portable), >6 To 12 Months.....	8.21	
			For >100 To 250, Deduct	-0.22	
			For >250 To 500, Deduct	-0.44	
			For >500, Deduct	-0.67	
			For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0148	LF		Temporary 8' High Chain Link Fence Panels (Portable), >6 To 12 Months.....	11.31	
			For >100 To 250, Deduct	-0.36	
			For >250 To 500, Deduct	-0.72	
			For >500, Deduct	-1.08	
			For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0149			Temporary Chain Link Fence Panels (Portable), >12 To 18 Months (01 56 26 00-0140)		
01 56 26 00-0150	LF		Temporary 4' High Chain Link Fence Panels (Portable), >12 To 18 Months.....	7.72	
			For >100 To 250, Deduct	-0.21	
			For >250 To 500, Deduct	-0.43	
			For >500, Deduct	-0.64	
			For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0151	LF		Temporary 6' High Chain Link Fence Panels (Portable), >12 To 18 Months.....	8.61	
			For >100 To 250, Deduct	-0.24	
			For >250 To 500, Deduct	-0.48	
			For >500, Deduct	-0.73	
			For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0152	LF		Temporary 8' High Chain Link Fence Panels (Portable), >12 To 18 Months.....	11.96	
			For >100 To 250, Deduct	-0.39	
			For >250 To 500, Deduct	-0.78	
			For >500, Deduct	-1.18	
			For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0153			Temporary Chain Link Fence Panels (Portable), >18 Months (01 56 26 00-0140)		
01 56 26 00-0154	LF		Temporary 4' High Chain Link Fence Panels (Portable), >18 Months.....	8.11	
			For >100 To 250, Deduct	-0.23	
			For >250 To 500, Deduct	-0.47	
			For >500, Deduct	-0.70	
			For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0155	LF		Temporary 6' High Chain Link Fence Panels (Portable), >18 Months.....	9.00	
			For >100 To 250, Deduct	-0.26	
			For >250 To 500, Deduct	-0.52	
			For >500, Deduct	-0.78	
			For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0156	LF		Temporary 8' High Chain Link Fence Panels (Portable), >18 Months.....	12.64	
			For >100 To 250, Deduct	-0.43	
			For >250 To 500, Deduct	-0.85	
			For >500, Deduct	-1.28	
			For Each LF Shade Cloth, Add	3.60	
01 56 26 00-0157			Temporary Chain Link Fence Panels (Portable) Sandbags (01 56 26 00-0140)		
01 56 26 00-0158	BAG		Temporary Chain Link Fence Panels (Portable) Sandbag.....	6.57	
			Note: Includes placement and removal.		
01 56 26 00-0159			Relocate Chain Link Fence, Gates And Panels (01 56 26 00-0001)		
			Note: Excludes auguring/drilling for posts.		
01 56 26 00-0160			Relocate Temporary Chain Link Fence On Site (01 56 26 00-0159)		
01 56 26 00-0161	LF		Relocate Temporary 4' High Chain Link Fence And Posts.....	3.64	
01 56 26 00-0162	LF		Relocate Temporary 6' High Chain Link Fence And Posts.....	5.46	
01 56 26 00-0163	LF		Relocate Temporary 8' High Chain Link Fence And Posts.....	7.89	
01 56 26 00-0164	LF		Relocate Temporary 10' High Chain Link Fence And Posts.....	9.71	
01 56 26 00-0165			Relocate Temporary Chain Link Fence Panels On Site (01 56 26 00-0159)		
01 56 26 00-0166	LF		Relocate Temporary 4' High Chain Link Fence Panel, Self Standing.....	0.85	
01 56 26 00-0167	LF		Relocate Temporary 6' High Chain Link Fence Panel, Self Standing.....	1.03	
01 56 26 00-0168	LF		Relocate Temporary 8' High Chain Link Fence Panel, Self Standing.....	1.15	
01 56 26 00-0169			Relocate Temporary Chain Link Gates On Site (01 56 26 00-0159)		
01 56 26 00-0170	EA		Relocate Temporary 4' High Chain Link Vehicle Gate And Posts.....	111.50	
01 56 26 00-0171	EA		Relocate Temporary 6' High Chain Link Vehicle Gate And Posts.....	128.66	
01 56 26 00-0172	EA		Relocate Temporary 8' High Chain Link Vehicle Gate And Posts.....	158.68	
01 56 26 00-0173	EA		Relocate Temporary 10' High Chain Link Vehicle Gate And Posts.....	171.56	
01 56 26 00-0174			Temporary Fence, Environmentally Sensitive Area (Type ESA) (01 56 26)		
			Note: Includes removal after use.		
01 56 26 00-0175	LF		3' High Temporary Fence (Type ESA), High Visibility Fabric.....	3.06	
01 56 26 00-0176			Temporary Safety Fence (01 56 26)		
			Note: Includes removal after use.		

01	General Requirements
01 50	Temporary Facilities and Controls
01 56	Temporary Barriers and Enclosures



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0177	LF	48" High With Posts At 8' On Center, Plastic Mesh Temporary Safety Fence	3.33	
01 56 29		Temporary Protective Walkways (01 56)		
01 56 29 00-0001		Temporary Safety Nets (01 56 29)		
		Note: Includes removal after use.		
01 56 29 00-0002	SF	Small Mesh Debris Netting	2.14	
		Note: Includes 3" molded plastic base plates, plastic cable ties, and 1/4", 7x9 aircraft cable tied off to structure, not including anchors.		
01 56 33		Temporary Security Barriers (01 56)		
01 56 33 00-0001		Temporary Pedestrian Barricade (01 56 33)		
		Note: Portable, interlocking galvanized steel fence with pivoting legs.		
01 56 33 00-0002	DAY	3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental.....	13.52	
01 56 33 00-0003	WK	3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental.....	32.83	
01 56 33 00-0004	MO	3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental.....	98.50	
01 56 39		Temporary Tree and Plant Protection (01 56)		
01 56 39 00-0001		Temporary Tree Guards (01 56 39)		
		Note: Includes digging holes and removal after use.		
01 56 39 00-0002	EA	Up To 4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail.....	189.46	
01 56 39 00-0003	EA	4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail.....	225.34	
01 56 39 00-0004	EA	6' x 6' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail.....	245.05	
01 57		Temporary Controls (01 50)		
01 57 13		Temporary Erosion and Sediment Control (01 57)		
		See CSI section 31 25 00 00-0000 for temporary erosion and sediment control.		
01 57 23		Temporary Storm Water Pollution Control (01 57)		
		See CSI section 31 25 00 00-0000 for temporary storm water pollution control.		
01 57 23 00-0001		Temporary Drain Guard (01 57 23)		
		Note: Includes removal after use.		
01 57 23 00-0002	EA	36" x 48" x 18" Non-Woven Polypropylene Trash and Debris Drain Guard (Ultra-Drain Guard® 9227).....	102.78	
01 57 23 00-0003	EA	36" x 48" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9217).....	100.79	
		Note: Up to 0.87 gallons oil, up to 40 lbs sediment.		
01 57 23 00-0004	EA	36" x 48" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9219).....	128.78	
		Note: Up to 1.38 gallons oil, up to 40 lbs sediment.		
01 57 23 00-0005	EA	60" x 60" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9356).....	126.77	
		Note: Up to 1.55 gallons oil, up to 40 lbs sediment.		
01 57 23 00-0006	EA	60" x 60" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9358).....	156.76	
		Note: Up to 2.06 gallons oil, up to 40 lbs sediment.		
01 58		Project Identification (01 50)		
		Note: Includes removal after use.		
01 58 13		Temporary Project Signage (01 58)		
01 58 13 00-0001		Project Sign (01 58 13)		
01 58 13 00-0002		MDO Plywood Signs (01 58 13 00-0001)		
		Note: Excludes posts.		
01 58 13 00-0003		Reflectorized, MDO Plywood Signs (01 58 13 00-0002)		
01 58 13 00-0004		Engineer Grade, Reflectorized, MDO Plywood Signs (01 58 13 00-0003)		
01 58 13 00-0005	EA	Up To 8 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign	166.89	23.59
		For High-Intensity Grade, Add	41.90	
		For Diamond Grade, Add	80.80	
01 58 13 00-0006	EA	>8 To 16 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign.....	288.75	24.66
		For High-Intensity Grade, Add	83.80	
		For Diamond Grade, Add	161.61	
01 58 13 00-0007	EA	>16 To 24 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign	410.60	25.73
		For High-Intensity Grade, Add	125.70	
		For Diamond Grade, Add	242.41	
01 58 13 00-0008	EA	>24 To 32 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign	532.46	26.81
		For High-Intensity Grade, Add	167.59	
		For Diamond Grade, Add	323.22	
01 58 13 00-0009	SF	>32 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign	16.68	0.85
		For High-Intensity Grade, Add	5.24	
		For Diamond Grade, Add	10.10	
01 58 13 00-0010		Non-Reflectorized, MDO Plywood Signs (01 58 13 00-0002)		



General Requirements			01
Temporary Facilities and Controls			01 50
Project Identification			01 58

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
01 58 13 00-0011	One Or Two Color Design, Non-Reflectorized, MDO Plywood Signs (01 58 13 00-0010)				
01 58 13 00-0012	EA Up To 8 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign	209.59		23.59	
01 58 13 00-0013	EA >8 To 16 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign	250.51		24.66	
01 58 13 00-0014	EA >16 To 24 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign	314.47		25.73	
01 58 13 00-0015	EA >24 To 32 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign	374.87		26.81	
01 58 13 00-0016	SF >32 SF, One Or Two Color Design, Non Reflectorized, MDO Plywood Sign.....	11.76		0.85	
01 58 13 00-0017	Full Color Design, Non-Reflectorized, MDO Plywood Signs (01 58 13 00-0010)				
01 58 13 00-0018	EA Up To 8 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign.....	214.17		23.59	
01 58 13 00-0019	EA >8 To 16 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	275.16		24.66	
01 58 13 00-0020	EA >16 To 24 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	339.52		25.73	
01 58 13 00-0021	EA >24 To 32 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	396.34		26.81	
01 58 13 00-0022	SF >32 SF, Full Color Design, Non Reflectorized, MDO Plywood Sign	12.43		0.85	
01 58 13 00-0023	Fabricate And Install New Posts (01 58 13 00-0001)				
	Note: Includes excavation, backfill and compaction. Excludes core drilling.				
01 58 13 00-0024	LF Galvanized Metal Channel Sign Posts.....	17.34			
01 58 13 00-0025	LF 4" x 4" Pressure Treated Wood Sign Posts	13.33			
01 58 13 00-0026	LF 4" x 6" Pressure Treated Wood Sign Posts	16.13			
01 58 13 00-0027	Owner Supplied Signs (01 58 13 00-0001)				
01 58 13 00-0028	EA Installation And Removal Of Owner Supplied Project Sign.....	85.78			

01 60 Product Requirements (01)

01 66 Product Storage and Handling Requirements (01 60)

01 66 19 Product Handling Requirements (01 66)

Note: Not for use in conjunction with other tasks when the distance is less than 2 stories or less than 125'.

01 66 19 00-0001	Transfer Delivered Materials Distances Greater Than 125' (01 66 19)				
	Note: For moving delivered, owner supplied or existing materials in a building.				
01 66 19 00-0002	CY Transfer Delivered Materials Distances Greater Than 125', Per CY Of Material Per 125'	6.70			

01 70 Execution and Closeout Requirements (01)

01 71 Examination and Preparation (01 70)

01 71 13 Mobilization (01 71)

01 71 13 00-0001	Equipment Delivery, Pickup, Mobilization And Demobilization (01 71 13)				
	Note: Excludes flagman for traffic control where necessary.				
01 71 13 00-0002	EA Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed Truck	453.17			
	Note: Includes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as trenchers, skid-steer loaders (bobcats), industrial warehouse forklifts, sweepers, scissor platform lifts, telescoping and articulating boom man lifts with up to 40' boom lengths, etc.				
01 71 13 00-0003	EA Equipment Delivery, Pickup, Mobilization And Demobilization Using A Tractor Trailer With Up To 53' Bed.....	1,493.84			
	Note: Includes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom man lifts with >40' boom lengths, etc.				
01 71 13 00-0004	Crane Delivery, Pickup, Mobilization And Demobilization (01 71 13)				
	Note: Includes delivery of equipment, off loading on site and rigging. Pick-up (return) includes dismantling, loading and transporting away. Excludes flagman for traffic control where necessary.				
01 71 13 00-0005	EA Up To 20 Ton Lift Move On/Off Cost, Hydraulic Crane.....	483.38			
	Note: Includes delivery and pickup.				
	For >30 To 60 Miles Radius, Add	120.85			
	For >60 To 100 Miles Radius, Add	193.35			
01 71 13 00-0006	EA >20 To 40 Ton Lift Move On/Off Cost, Hydraulic Crane	785.49			
	Note: Includes delivery and pickup.				
	For >30 To 60 Miles Radius, Add	196.37			
	For >60 To 100 Miles Radius, Add	314.20			
01 71 13 00-0007	EA >40 To 70 Ton Lift Move On/Off Cost, Hydraulic Crane	1,087.61			
	Note: Includes delivery and pickup.				
	For >30 To 60 Miles Radius, Add	271.90			
	For >60 To 100 Miles Radius, Add	435.04			
01 71 13 00-0008	EA >70 To 110 Ton Lift Move On/Off Cost, Hydraulic Crane	1,752.25			
	Note: Includes delivery and pickup.				
	For >30 To 60 Miles Radius, Add	438.06			
	For >60 To 100 Miles Radius, Add	700.90			

01	General Requirements
01 70	Execution and Closeout Requirements
01 71	Examination and Preparation



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 13 00-0009	EA	>110 To 125 Ton Lift Move On/Off Cost, Hydraulic Crane Note: Includes delivery and pickup. For >30 To 60 Miles Radius, Add For >60 To 100 Miles Radius, Add	2,199.38 549.85 879.75	
01 71 13 00-0010	EA	>125 To 150 Ton Lift Move On/Off Cost, Hydraulic Crane Note: Includes delivery and pickup. For >30 To 60 Miles Radius, Add For >60 To 100 Miles Radius, Add	2,737.14 684.29 1,094.86	
01 71 13 00-0011	EA	>150 To 185 Ton Lift Move On/Off Cost, Hydraulic Crane Note: Includes delivery and pickup. For >30 To 60 Miles Radius, Add For >60 To 100 Miles Radius, Add	3,154.05 788.51 1,261.62	
01 71 13 00-0012	EA	>185 To 210 Ton Lift Move On/Off Cost, Hydraulic Crane Note: Includes delivery and pickup. For >30 To 60 Miles Radius, Add For >60 To 100 Miles Radius, Add	3,528.68 882.17 1,411.47	
01 71 13 00-0013	EA	75 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. For >30 To 60 Miles Radius, Add For >60 To 100 Miles Radius, Add	1,873.10 468.28 749.24	
01 71 13 00-0014	EA	100 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. For >30 To 60 Miles Radius, Add For >60 To 100 Miles Radius, Add	2,960.71 740.18 1,184.28	
01 71 13 00-0015	EA	125 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. For >30 To 60 Miles Radius, Add For >60 To 100 Miles Radius, Add	3,746.20 936.55 1,498.48	
01 71 13 00-0016	EA	150 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. For >30 To 60 Miles Radius, Add For >60 To 100 Miles Radius, Add	4,652.54 1,163.14 1,861.02	
01 71 13 00-0017	EA	200 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. For >30 To 60 Miles Radius, Add For >60 To 100 Miles Radius, Add	5,800.57 1,450.14 2,320.23	
01 71 13 00-0018	EA	250 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. For >30 To 60 Miles Radius, Add For >60 To 100 Miles Radius, Add	6,767.33 1,691.83 2,706.93	
01 71 13 00-0019	EA	300 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. For >30 To 60 Miles Radius, Add For >60 To 100 Miles Radius, Add	9,667.61 2,416.90 3,867.04	
01 71 13 00-0020	EA	500 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane Note: Includes delivery, rigging and pickup. For >30 To 60 Miles Radius, Add For >60 To 100 Miles Radius, Add	13,256.70 3,314.18 5,302.68	

01 71 23 Field Engineering (01 71)

01 71 23 16 Construction Surveying (01 71 23)

01 71 23 16-0001		Conventional Topographic Survey (01 71 23 16) Note: The professional services include AutoCAD drafting and certification. The survey includes location of structures, walks, drives, parking, significant vegetation, utilities, etc. The area within building footprint is not to be considered as part of the acreage.		
01 71 23 16-0002	ACR	Conventional Topographic Survey Of Clear Area With Few To No Obstacles.....	1,187.51	
01 71 23 16-0003	ACR	Conventional Topographic Survey Of Clear Area With Medium Height Vegetation, Few Trees (<5% Buildings).....	3,290.18	
01 71 23 16-0004	ACR	Conventional Topographic Survey Of Clear Area With Few Structures, And/Or Wooded (5-25% Buildings).....	4,728.42	
01 71 23 16-0005	ACR	Conventional Topographic Survey Of Developed Areas With Several Structures (25-65% Buildings).....	7,081.97	
01 71 23 16-0006	ACR	Conventional Topographic Survey Of Highly Developed Areas, Sidewalks, Etcetera (>65% Buildings).....	8,855.70	
01 71 23 16-0007		Property Lines Survey (01 71 23 16) Note: Not to be added to tasks in the "Conventional Topographic Survey" section.		
01 71 23 16-0008	LF	Survey Property Lines On Cleared Land	2.58	
01 71 23 16-0009	LF	Survey Property Lines On Slightly Wooded Land	3.00	
01 71 23 16-0010	LF	Survey Property Lines On Wooded Land.....	3.51	
01 71 23 16-0011		Survey Monument (01 71 23 16)		
01 71 23 16-0012	EA	3' Precast Survey Monument..... For Owner Furnished Monument, Deduct	190.33 -73.06	
01 71 23 16-0013	EA	Precast Survey Monument Box With Cast Iron Frame And Cover.....	285.91	
01 71 23 16-0014	EA	Riser Ring For Survey Monument.....	148.25	
01 71 23 16-0015	EA	Adjust Survey Monument Cover To Grade.....	219.19	
01 71 23 16-0016	EA	Adjust Existing Monument Box Cover To Grade.....	58.45	
01 71 23 16-0017		Facade Surveying (01 71 23 16)		
01 71 23 16-0018	LF	Facade Survey And Reports (LF Of Facade x Number Of Floors)	7.11	



General Requirements		01	Σ
Execution and Closeout Requirements		01 70	
Examination and Preparation		01 71	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 23 16-0019		Utility Survey (01 71 23 16) Note: This survey is only for the location of underground utilities.		
01 71 23 16-0020	ACR	Survey Clear Area For Underground Utilities.....	6,008.28	
01 71 23 16-0021		GPR Bridge Deck And Pavement Inspection (01 71 23 16)		
01 71 23 16-0022		GPR Bridge Deck And Pavement Inspection Mobilization Fee (01 71 23 16-0021) Note: One mobilization per project.		
01 71 23 16-0023	EA	GPR Bridge Deck And Pavement Inspection Mobilization Fee.....	3,753.20	
01 71 23 16-0024		Bridge Deck Delamination Survey, GPR Bridge Deck Inspection (01 71 23 16-0021) Note: Each project will use the Survey Fee task with a quantity of 1 and one other task for the area of the bridge deck surveyed.		
01 71 23 16-0025	EA	Survey Fee, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	2,814.90	
01 71 23 16-0026	SF	Up To 5,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection.....	1.18	
01 71 23 16-0027	SF	>5,000 To 10,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.94	
01 71 23 16-0028	SF	>10,000 To 25,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.75	
01 71 23 16-0029	SF	>25,000 To 50,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.56	
01 71 23 16-0030	SF	>50,000 To 100,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.45	
01 71 23 16-0031	SF	>100,000 To 250,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.36	
01 71 23 16-0032	SF	>250,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection	0.26	
01 71 23 16-0033		Depth Of Reinforcement/Overlay Thickness Survey, GPR Bridge Deck Inspection (01 71 23 16-0021) Note: Each project will use the Survey Fee task with a quantity of 1 and one other task for the area of the bridge deck surveyed.		
01 71 23 16-0034	EA	Survey Fee, Depth Of Reinforcement/Overlay Thickness Survey, GPR Bridge Deck Inspection	938.30	
01 71 23 16-0035	SF	Depth Of Reinforcement/Overlay Thickness Survey, GPR Bridge Deck Inspection	0.06	
01 71 23 16-0036		Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection (01 71 23 16-0021) Note: Each project will use the Survey Fee task with a quantity of 1 and one other task for the area of the bridge deck surveyed.		
01 71 23 16-0037	EA	Survey Fee, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	938.30	
01 71 23 16-0038	SF	Up To 5,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection.....	0.43	
01 71 23 16-0039	SF	>5,000 To 10,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.34	
01 71 23 16-0040	SF	>10,000 To 25,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.26	
01 71 23 16-0041	SF	>25,000 To 50,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.21	
01 71 23 16-0042	SF	>50,000 To 100,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.17	
01 71 23 16-0043	SF	>100,000 To 250,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.13	
01 71 23 16-0044	SF	>250,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection	0.09	
01 71 23 16-0045		Pavement Structure And Thickness Measurement, GPR Pavement Inspection (01 71 23 16-0021) Note: Each project will use one task for the length of the pavement surveyed.		
01 71 23 16-0046	LM	Up To 4 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	6,977.20	
01 71 23 16-0047	LM	>4 To 9 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	3,041.97	
01 71 23 16-0048	LM	>9 To 49 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	2,265.06	
01 71 23 16-0049	LM	>49 To 99 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	1,236.68	
01 71 23 16-0050	LM	>99 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection	972.08	
01 71 23 16-0051		Pavement Thickness Contour (Mapping), GPR Pavement Inspection (01 71 23 16-0021) Note: Each project will use one task for the length of the pavement surveyed.		
01 71 23 16-0052	LM	Up To 4 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection	8,878.19	
01 71 23 16-0053	LM	>4 To 9 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection	4,175.44	
01 71 23 16-0054	LM	>9 To 49 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection	3,171.45	
01 71 23 16-0055	LM	>49 To 99 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection	1,777.14	
01 71 23 16-0056	LM	>99 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection	1,405.57	
01 71 23 16-0057		Pavement Void Detection (Mapping), GPR Pavement Inspection (01 71 23 16-0021) Note: Each project will use one task for the length of the pavement surveyed.		
01 71 23 16-0058	LM	Up To 4 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection	10,542.74	
01 71 23 16-0059	LM	>4 To 9 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection	5,166.28	
01 71 23 16-0060	LM	>9 To 49 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection	3,963.38	
01 71 23 16-0061	LM	>49 To 99 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection	2,250.04	
01 71 23 16-0062	LM	>99 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection	1,782.77	
01 71 23 16-0063		Drone Survey (Extreme Aerial Productions) (01 71 23 16) Note: Thermographic services to electrical line grid inspections.		
01 71 23 16-0064		Mobilization For Drone Surveying (01 71 23 16-0063)		

01	General Requirements
01 70	Execution and Closeout Requirements
01 71	Examination and Preparation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 23 16-0065 EA Mobilization For Up To 1000 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing.....	251.07	
01 71 23 16-0066 EA Mobilization For > 1000 Acres Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing.....	627.68	
01 71 23 16-0067 EA Mobilization For Up To 400 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Hexacopter.....	167.38	
01 71 23 16-0068 EA Mobilization For Drone Road Survey For Topography/Progression/Inspection.....	334.76	
01 71 23 16-0069 EA Mobilization For Drone Survey Stockpile.....	167.38	
01 71 23 16-0070 EA Mobilization For Drone Inspection.....	167.38	
01 71 23 16-0071 EA Mobilization For Qualitative Drone Thermal Inspection.....	334.76	
01 71 23 16-0072 EA Mobilization For Quantitative Drone Thermal Inspection.....	418.45	
01 71 23 16-0073 EA Mobilization For Drone Agricultural Multispectral Survey.....	669.52	
01 71 23 16-0074 EA Mobilization For Drone Building Inspection/Scan/Thermal.....	502.14	
01 71 23 16-0075 EA Mobilization For Drone 3D Modelling.....	418.45	
01 71 23 16-0076 EA Mobilization For Drone Spraying Crops Or Sanitation.....	753.21	
01 71 23 16-0077 EA Mobilization For Drone Video Progression/Marketing.....	167.38	
01 71 23 16-0078 EA Mobilization For Drone Pictures Progression/Marketing.....	167.38	
01 71 23 16-0079 EA Mobilization For Drone Training, Flying, Test Prep, Equipment Checks.....	167.38	
01 71 23 16-0080 EA Mobilization For Drone Accident Reconstruction.....	167.38	
01 71 23 16-0081 EA Mobilization For Drone Landfill Survey.....	251.07	
01 71 23 16-0082 EA Mobilization For Drone Event Security Using Tethered Drones.....	334.76	
01 71 23 16-0083 EA Mobilization For Drone Emergency Response.....	836.90	
01 71 23 16-0084 EA Mobilization For Drone Cell Tower Inspection.....	251.07	
01 71 23 16-0085 Drone Surveying (01 71 23 16-0063)		
01 71 23 16-0086 HR Up To 1000 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing.....	610.94	
Note: 3 hour minimum		
For Visual Observation, Add	167.38	
For Additional Manpower, Add	167.38	
01 71 23 16-0087 HR > 1000 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing.....	778.32	
For Visual Observation, Add	251.07	
For Additional Manpower, Add	200.86	
01 71 23 16-0088 HR Up To 400 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Hexacopter.....	502.14	
Note: 3 hour minimum		
For Visual Observation, Add	167.38	
For Additional Manpower, Add	167.38	
01 71 23 16-0089 HR Drone Road Survey For Topography/Progression/Inspection.....	585.83	
Note: 3 hour minimum		
For Visual Observation, Add	251.07	
For Additional Manpower, Add	167.38	
01 71 23 16-0090 HR Drone Survey Stockpile.....	418.45	
Note: 3 hour minimum		
For Visual Observation, Add	167.38	
For Additional Manpower, Add	167.38	
01 71 23 16-0091 HR Drone Inspection.....	585.83	
Note: 3 hour minimum		
For Visual Observation, Add	167.38	
For Additional Manpower, Add	167.38	
01 71 23 16-0092 HR Qualitative Drone Thermal Inspection.....	669.52	
Note: 5 hour minimum		
For Visual Observation, Add	251.07	
For Additional Manpower, Add	167.38	
01 71 23 16-0093 HR Quantitative Drone Thermal Inspection.....	1,004.28	
Note: 5 hour minimum		
For Visual Observation, Add	251.07	
For Additional Manpower, Add	167.38	
01 71 23 16-0094 HR Drone Agricultural Multispectral Survey.....	753.21	
Note: 6 hour minimum		
For Visual Observation, Add	167.38	
For Additional Manpower, Add	167.38	
01 71 23 16-0095 HR Drone Building Inspection/Scan/Thermal.....	669.52	
Note: 3 hour minimum		
For Visual Observation, Add	251.07	
For Additional Manpower, Add	167.38	
01 71 23 16-0096 HR Drone 3D Modelling.....	502.14	
Note: 3 hour minimum		
For Visual Observation, Add	251.07	
For Additional Manpower, Add	167.38	
01 71 23 16-0097 HR Drone Spraying Crops Or Sanitation.....	669.52	
Note: 3 hour minimum		
For Visual Observation, Add	209.22	
For Additional Manpower, Add	167.38	
01 71 23 16-0098 HR Drone Video Progression/Marketing.....	334.76	
Note: 2 hour minimum		
For Visual Observation, Add	167.38	
For Additional Manpower, Add	167.38	
01 71 23 16-0099 HR Drone Pictures Progression/Marketing.....	251.07	
Note: 2 hour minimum		
For Visual Observation, Add	167.38	
For Additional Manpower, Add	167.38	
01 71 23 16-0100 HR Drone Training, Flying, Test Prep, Equipment Checks.....	502.14	
Note: 3 hour minimum		



General Requirements			01
Execution and Closeout Requirements			01 70
Examination and Preparation			01 71

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 23 16-0101	HR		Drone Accident Reconstruction Note: 2 hour minimum For Visual Observation, Add For Additional Manpower, Add	753.21 167.38 167.38	
01 71 23 16-0102	HR		Drone Landfill Survey Note: 3 hour minimum For Visual Observation, Add For Additional Manpower, Add	610.94 167.38 167.38	
01 71 23 16-0103	HR		Drone Event Security Using Tethered Drones Note: 3 hour minimum For Visual Observation, Add For Additional Manpower, Add	418.45 167.38 167.38	
01 71 23 16-0104	HR		Drone Emergency Response Note: 3 hour minimum For Visual Observation, Add For Additional Manpower, Add	418.45 251.07 167.38	
01 71 23 16-0105	HR		Drone Cell Tower Inspection Note: 3 hour minimum For Visual Observation, Add For Additional Manpower, Add	418.45 209.22 167.38	
01 71 23 16-0106			Utilization And Deliverables For Drone Surveying (01 71 23 16-0063)		
01 71 23 16-0107	Day		Utilization Of GPS Ground Control For Drone Surveying	418.45	
01 71 23 16-0108	Day		Utilization Of GPS Base Station Per Day For Drone Surveying.....	418.45	
01 71 23 16-0109	HR		Processing And Data Deliverables And Reporting For Drone Surveying..... Note: 2 hour minimum	167.38	
01 71 23 16-0110	HR		Processing And Data Deliverables And Reporting Of Thermal For Drone Surveying..... Note: 3 hour minimum	334.76	
01 71 23 16-0111			Travel, Waivers, And Editing For Drone Surveying (01 71 23 16-0063)		
01 71 23 16-0112	MI		Travel Over 100 Miles For Drone Surveying..... Note: For additional miles over 100	0.96	
01 71 23 16-0113	EA		Overnight Stay Per Person For Drone Surveying	209.22	
01 71 23 16-0114	EA		Waiver Utilization B, C, D, And E For Drone Surveying..... Note: Restricted airspace	83.69	
01 71 23 16-0115	EA		Night Waiver For Drone Surveying	108.80	
01 71 23 16-0116	EA		Flying Over People Waiver For Drone Surveying	167.38	
01 71 23 16-0117	EA		Beyond Visual Line Of Sight (BVLOS) Waiver For Drone Surveying.....	836.90	
01 71 23 16-0118	HR		Editing Video For Drone Surveying..... Note: 2 hour minimum	167.38	
01 71 23 16-0119	HR		Editing Pictures For Drone Surveying..... Note: 2 hour minimum	83.69	
01 71 23 16-0120	HR		Custom Post Processing For Drone Surveying	251.07	
01 71 23 16-0120	HR		Note: 3 hour minimum		
01 74			Cleaning and Waste Management (01 70)		
01 74 16			Site Maintenance (01 74)		
01 74 16 00-0001			Parking Lot, Roads And Pathway Maintenance (01 74 16) Note: These tasks shall be used for maintenance of existing roads and walks only as requested by the owner. Tasks not to be used in conjunction with related installation/demolition tasks in the Construction Task Catalog®.		
01 74 16 00-0002			Parking Lot, Road, And Street Sweeping (01 74 16 00-0001)		
01 74 16 00-0003	MSF		Sweep Parking Lot, With Street Sweeper.....	20.96	
01 74 16 00-0004	MSF		Sweeper/Vacuum/Sprayer For Parking Lots, Streets And Roads.....	25.15	
01 74 16 00-0005			Runway Sweeping (01 74 16 00-0001)		
01 74 16 00-0006	MSF		Sweep Runway, With Street Sweep	31.43	
01 74 19			Construction Waste Management and Disposal (01 74)		
01 74 19 00-0001			Construction Dumpsters Rental (01 74 19) Note: Includes service to delivery and pick-up of dumpster, hauling of debris, rental of dumpster and all applicable non-hazardous disposal fees. Cost of "each" is based on each pick-up. Use modifier for excess tons up to legal state limit. Unacceptable materials include: aerosol cans, all liquids, animals, antifreeze, appliances, asbestos, barrels, batteries, chemical products, computers, contaminated oils (mixed with solvents, gasoline, etc.), dirt, fluorescent tubes, hazardous waste, herbicides and pesticides, industrial waste, lubricating/hydraulic oil, mattresses, medical waste, microwaves, monitors, motor oil, oil filters, other flammable liquids, paint (except completely dried latex paint cans, no liquids), petroleum-contaminated soil/lead paint chips, propane tanks, radioactive material, railroad ties, solvents, televisions, tires, and transmission oil.		
01 74 19 00-0002	EA		10 CY Dumpster (1.5 Ton) "Construction Debris" Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material. For Each Ton Over Indicated Amount, Add	587.50 95.00	
01 74 19 00-0003	EA		15 CY Dumpster (2 Ton) "Construction Debris" Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material. For Each Ton Over Indicated Amount, Add	634.98 95.00	

01	General Requirements
01 70	Execution and Closeout Requirements
01 74	Cleaning and Waste Management



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 74 19 00-0004 EA 20 CY Dumpster (3 Ton) "Construction Debris".....	685.00	
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
For Each Ton Over Indicated Amount, Add	95.00	
01 74 19 00-0005 EA 30 CY Dumpster (4 Ton) "Construction Debris".....	734.96	
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
For Each Ton Over Indicated Amount, Add	95.00	
01 74 19 00-0006 EA 40 CY Dumpster (4.5 Ton) "Construction Debris".....	814.98	
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
For Each Ton Over Indicated Amount, Add	95.00	
01 74 19 00-0007 EA 10 CY Low-Boy Dumpster "Concrete Or Asphalt Only"	714.85	
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Concrete or asphalt only.		
01 74 19 00-0008 EA 15 CY Low-Boy Dumpster Clean Recyclable.....	780.05	
Note: For clean dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.		
01 74 19 00-0009 EA 15 CY Low-Boy Dumpster Mixed Recyclable	838.26	
Note: For mixed dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.		
01 74 19 00-0010 Concrete Washout Service (01 74 19)		
01 74 19 00-0011 MO Rampless Concrete Washout Bin.....	589.50	
Note: Includes delivery.		
01 74 19 00-0012 MO Ramped Concrete Washout Bin	707.40	
Note: Includes delivery.		
01 74 19 00-0013 EA Interim Vacuum Service, Concrete Washout Bin	598.02	
Note: Includes vacuum and recycle excess clear liquid from the unfilled bin to allow additional space for washout material.		
01 74 19 00-0014 EA Vacuum, Pickup, Swap And Dump, Concrete Washout Bin	1,295.71	
Note: Includes vacuum the liquid from the full bin and pick up the bin, and recycle all material. An empty bin will be left at the site if the project is not completed.		
01 74 19 00-0015 Debris Processing Fee (01 74 19)		
01 74 19 00-0016 Material Recycling Fees (01 74 19 00-0015)		
Note: Not to be used with Dumpster Tasks which includes the Landfill Dump Fee. Excludes hauling.		
01 74 19 00-0017 CY Drop-Off Asphalt At Recycling Center	45.04	
01 74 19 00-0018 CY Drop-Off Non Reinforced Concrete At Recycling Center.....	60.34	
01 74 19 00-0019 CY Drop-Off Reinforced Concrete At Recycling Center.....	90.52	
01 74 19 00-0020 CY Drop-Off Brick Or Block At Recycling Center.....	78.45	
01 74 19 00-0021 CY Drop-Off Dirt At Recycling Center.....	87.50	
01 74 19 00-0022 CY Drop-Off Dimensional Lumber At Recycling Center.....	84.48	
01 74 19 00-0023 Landfill Dump Fees (01 74 19 00-0015)		
Note: Does not apply when material is transferred to owner's site or facility, or with use of dumpsters. Excludes hauling.		
01 74 19 00-0024 CY Traditional Building Construction Materials Landfill Dump Fee.....	40.16	
01 74 19 00-0025 TON Traditional Building Construction Materials, Landfill Dump Fee.....	175.00	
01 74 19 00-0026 CY Trees, Stumps And Brush, Landfill Dump Fee	48.34	
01 74 19 00-0027 CY Hazardous Materials And Rubbish Landfill Dump Fee.....	115.26	
Note: Includes regulated waste such as paint cans, refrigerators/freezers, air conditioners, smoke detectors, batteries, etc.		
01 74 19 00-0028 CY Asphalt, Concrete, Gravel And Subgrade Material, Landfill Dump Fee	81.90	
01 74 19 00-0029 Hauling (01 74 19)		
Note: Includes driver and equipment, ten (10) to fifteen (15) minutes load time, time for travel, dump time and return (roundtrip). The task quantity is the number of miles to the disposal site/transfer station (one way mileage) times the number of cubic yards being transported. For example, to haul 8 CY to a site 14 miles away, the quantity is calculated as follows: 14 miles x 8 CY = 112 CYM. Use both hauling tasks for distances greater than 15 miles. To haul 28 CY to a site 32 miles away, the quantity for the task to haul the first 15 miles is calculated: 15 miles x 28 CY = 420 CYM. The quantity for the additional hauling task over the first 15 miles is calculated: 32 total miles less 15 initial miles equals 17 miles x 28 CY = 476 CYM.		
01 74 19 00-0030 CYM Hauling On Paved Roads, First 15 Miles	0.96	
01 74 19 00-0031 CYM Hauling On Paved Roads, Miles Over Initial 15 Miles.....	0.64	
01 74 19 00-0032 CYM Hauling On Unimproved Roads, First 15 Miles	1.47	
01 74 19 00-0033 CYM Hauling On Unimproved Roads, Miles Over Initial 15 Miles.....	1.15	

END OF SECTION 01



Existing Conditions		02
Subsurface Investigation		02 30
Geotechnical Investigations		02 32

02

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

02 Existing Conditions

02 30 Subsurface Investigation⁽⁰²⁾

02 32 Geotechnical Investigations^(02 30)

02 32 13 Subsurface Drilling and Sampling^(02 32)

See CSI section 01 45 23 00-0000 for testing and lab reports.

02 32 13 00-0001 Mobilization Of Drilling Crew^(02 32 13)

02 32 13 00-0002 EA Mobilization Of Drilling Crew 1,180.71

02 32 13 00-0003 Auger Borings^(02 32 13)

02 32 13 00-0004 LF Standard Auger Hole With Split Spoon Sample At 5' Intervals 35.56

02 32 13 00-0005 Cased Borings In Earth, With Samples^(02 32 13)

Note: All types of soils.

02 32 13 00-0006 LF 2-1/2" Diameter Cased Borings In Earth, With Samples 91.66

02 32 13 00-0007 LF 4" Diameter Cased Borings In Earth, With Samples 156.76

02 32 13 00-0008 Drilling In Rock, BW Core (2.125")^(02 32 13)

02 32 13 00-0009 LF Drill In Rock, BW Core, With Casing 96.87

Note: Includes sampling.

02 32 13 00-0010 EA Drill In Rock, With BW Core Boxes 9.18

02 32 13 00-0011 Drilling In Rock, NW Core (2.98")^(02 32 13)

02 32 13 00-0012 LF Drill In Rock, NW Core, With Casing 125.29

Note: Includes sampling.

02 32 13 00-0013 EA Drill In Rock, With NW Core Boxes 10.54

02 32 13 00-0014 Test Pits For Boring Activities^(02 32 13)

Note: Excludes backfill. See CSI section 31 23 16 36-0016 for backfill.

02 32 13 00-0015 Backhoe Dug Test Pits^(02 32 13 00-0014)

02 32 13 00-0016 CY Excavation For Test Pit, Light Material, Backhoe Excavation 65.65

02 32 13 00-0017 CY Excavation For Test Pits, Medium Material, Backhoe Excavation 76.59

02 32 13 00-0018 CY Excavation For Test Pit, Heavy Material, Backhoe Excavation 102.12

02 32 13 00-0019 Hand-Dug Test Pits^(02 32 13 00-0014)

02 32 13 00-0020 CY Excavation For Test Pit, Light Soil, Hand Excavation 190.61

02 32 13 00-0021 CY Excavation For Test Pit, Heavy Soil, Hand Excavation 343.10

02 32 13 00-0022 Shelby Tube Sampling^(02 32 13)

02 32 13 00-0023 EA Shelby Tube Sampling 52.27

02 32 13 00-0024 EA Penetration Test 42.59

02 32 13 00-0025 Grouting^(02 32 13)

02 32 13 00-0026 VLF Boreholes 9.91

02 32 19 Exploratory Excavations^(02 32)

02 32 19 00-0001 Hydro Excavation^(02 32 19)

Note: Assumes on-site disposal.

02 32 19 00-0002 EA Hydro Excavation, Mobilization/Demobilization 166.12

02 32 19 00-0003 EA Hydro Excavation, Minimum Charge 664.49

Note: For projects where the total charge is less than the "Hydro Excavation Minimum" cost, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.

02 32 19 00-0004 CY Hydro Excavation, Normal Soil Conditions (Hydro-Vac Truck) 36.91

Note: Normal soil conditions consist of silt, sand and gravel.

02 32 19 00-0005 CY Hydro Excavation, Adverse Soil Conditions (Hydro-Vac Truck) 59.06

Note: Adverse soil conditions consist of clay, glacial till and rocks.

02 40 Demolition and Structure Moving⁽⁰²⁾

02 41 Demolition^(02 40)

02 41 13 Selective Site Demolition^(02 41)

02	Existing Conditions
02 40	Demolition and Structure Moving
02 41	Demolition



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

02 41 13 13 Paving Removal^(02 41 13)

Note: Includes break-up of material, loading into truck or dumpster and clean-up. Salvage tasks include placement on pallets and storage on site.

02 41 13 13-0001 By Machine, Break-up And Leave In Place Bituminous And Concrete

Paving^(02 41 13 13)

Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles. These tasks are not to be used in conjunction with any other loading activities or other break-up tasks. Excludes saw cutting (where required) and disposal. See CSI section 02 41 13 13-0018 for breaking-up, removal and loading as a combined operation, 02 41 19 13-0001 for saw cutting.

02 41 13 13-0002	SY Up To 3" By Machine, Break-up And Leave In Place Bituminous Paving	6.94
	For >500 To 1,000, Deduct	-0.69
	For >1,000 To 2,500, Deduct	-1.25
	For >2,500 To 5,000, Deduct	-1.80
	For >5,000 To 10,000, Deduct	-2.36
	For >10,000, Deduct	-2.91
02 41 13 13-0003	SY >3" To 6" By Machine, Break-up And Leave In Place Bituminous Paving	10.41
	For >500 To 1,000, Deduct	-1.04
	For >1,000 To 2,500, Deduct	-1.87
	For >2,500 To 5,000, Deduct	-2.71
	For >5,000 To 10,000, Deduct	-3.54
	For >10,000, Deduct	-4.37
02 41 13 13-0004	SY >6" To 8" By Machine, Break-up And Leave In Place Bituminous Paving	13.88
	For >500 To 1,000, Deduct	-1.39
	For >1,000 To 2,500, Deduct	-2.50
	For >2,500 To 5,000, Deduct	-3.61
	For >5,000 To 10,000, Deduct	-4.72
	For >10,000, Deduct	-5.83
02 41 13 13-0005	SY Up To 3" By Machine, Break-up And Leave In Place Concrete Paving	13.69
	For >500 To 1,000, Deduct	-1.37
	For >1,000 To 2,500, Deduct	-2.46
	For >2,500 To 5,000, Deduct	-3.56
	For >5,000 To 10,000, Deduct	-4.65
	For >10,000, Deduct	-5.75
02 41 13 13-0006	SY >3" To 6" By Machine, Break-up And Leave In Place Concrete Paving	19.33
	For >500 To 1,000, Deduct	-1.93
	For >1,000 To 2,500, Deduct	-3.48
	For >2,500 To 5,000, Deduct	-5.03
	For >5,000 To 10,000, Deduct	-6.57
	For >10,000, Deduct	-8.12
02 41 13 13-0007	SY >6" To 9" By Machine, Break-up And Leave In Place Concrete Paving	27.39
	For >500 To 1,000, Deduct	-2.74
	For >1,000 To 2,500, Deduct	-4.93
	For >2,500 To 5,000, Deduct	-7.12
	For >5,000 To 10,000, Deduct	-9.31
	For >10,000, Deduct	-11.50
02 41 13 13-0008	SY >9" To 14" By Machine, Break-up And Leave In Place Concrete Paving	38.66
	For >500 To 1,000, Deduct	-3.87
	For >1,000 To 2,500, Deduct	-6.96
	For >2,500 To 5,000, Deduct	-10.05
	For >5,000 To 10,000, Deduct	-13.14
	For >10,000, Deduct	-16.24
02 41 13 13-0009	SY >14" To 19" By Machine, Break-up And Leave In Place Concrete Paving	50.56
	For >500 To 1,000, Deduct	-5.06
	For >1,000 To 2,500, Deduct	-9.10
	For >2,500 To 5,000, Deduct	-13.15
	For >5,000 To 10,000, Deduct	-17.19
	For >10,000, Deduct	-21.24
02 41 13 13-0010	SY >19" To 24" By Machine, Break-up And Leave In Place Concrete Paving	65.73
	For >500 To 1,000, Deduct	-6.57
	For >1,000 To 2,500, Deduct	-11.83
	For >2,500 To 5,000, Deduct	-17.09
	For >5,000 To 10,000, Deduct	-22.35
	For >10,000, Deduct	-27.61

02 41 13 13-0011 By Hand, Break-up And Leave In Place Bituminous And Concrete Paving^(02 41 13 13)

Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles with jackhammer and hand tools. For individual work areas where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. These tasks are not to be used in conjunction with any other loading activities or other break-up tasks. Excludes saw cutting (where required) and disposal. See CSI section 02 41 13 13-0032 for breaking-up, removal and loading as a combined operation, 02 41 19 13-0001 for saw cutting.

02 41 13 13-0012	SF Up To 3" By Hand, Break-up And Leave In Place Bituminous Paving	1.71
02 41 13 13-0013	SF >3" To 6" By Hand, Break-up And Leave In Place Bituminous Paving	2.18
02 41 13 13-0014	SF >6" To 8" By Hand, Break-up And Leave In Place Bituminous Paving	2.87
02 41 13 13-0015	SF Up To 3" By Hand, Break-up And Leave In Place Concrete Paving	2.14
02 41 13 13-0016	SF >3" To 6" By Hand, Break-up And Leave In Place Concrete Paving	2.73
02 41 13 13-0017	SF >6" To 8" By Hand, Break-up And Leave In Place Concrete Paving	3.59

02 41 13 13-0018 By Machine, Break-up And Remove Bituminous And Concrete Paving^(02 41 13 13)

Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles, breaking into manageable sizes by machine and loading into truck, dumpster or moving material to stockpile. Excludes saw cutting (where required) and disposal. See CSI section 02 41 19 13-0001 for saw cutting.



Existing Conditions		02
Demolition and Structure Moving		02 40
Demolition		02 41

02

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 13 13-0019	SY	Up To 3" By Machine, Break-up And Remove Bituminous Paving	15.29		
		For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	4.59		
		Note: (Around Existing Structures And Obstructions), Add			
		For Elevated Slab, Add	7.65		
		For >500 To 1,000, Deduct	-1.53		
		For >1,000 To 2,500, Deduct	-2.75		
		For >2,500 To 5,000, Deduct	-3.98		
		For >5,000 To 10,000, Deduct	-5.20		
		For >10,000, Deduct	-6.42		
02 41 13 13-0020	SY	>3" To 6" By Machine, Break-up And Remove Bituminous Paving	20.87		
		For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	6.26		
		Note: (Around Existing Structures And Obstructions), Add			
		For Elevated Slab, Add	10.44		
		For >500 To 1,000, Deduct	-2.09		
		For >1,000 To 2,500, Deduct	-3.76		
		For >2,500 To 5,000, Deduct	-5.43		
		For >5,000 To 10,000, Deduct	-7.10		
		For >10,000, Deduct	-8.77		
02 41 13 13-0021	SY	Up To 3" By Machine, Break-up And Remove Non Reinforced Concrete Paving.....	17.59		
		For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	5.28		
		Note: (Around Existing Structures And Obstructions), Add			
		For Elevated Slab, Add	8.80		
		For >500 To 1,000, Deduct	-1.76		
		For >1,000 To 2,500, Deduct	-3.17		
		For >2,500 To 5,000, Deduct	-4.57		
		For >5,000 To 10,000, Deduct	-5.98		
		For >10,000, Deduct	-7.39		
02 41 13 13-0022	SY	>3" To 6" By Machine, Break-up And Remove Non Reinforced Concrete Paving.....	23.01		
		For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	6.90		
		Note: (Around Existing Structures And Obstructions), Add			
		For Elevated Slab, Add	11.51		
		For >500 To 1,000, Deduct	-2.30		
		For >1,000 To 2,500, Deduct	-4.14		
		For >2,500 To 5,000, Deduct	-5.98		
		For >5,000 To 10,000, Deduct	-7.82		
		For >10,000, Deduct	-9.66		
02 41 13 13-0023	SY	Up To 3" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	23.33		
		For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	7.00		
		Note: (Around Existing Structures And Obstructions), Add			
		For Elevated Slab, Add	11.67		
		For >500 To 1,000, Deduct	-2.33		
		For >1,000 To 2,500, Deduct	-4.20		
		For >2,500 To 5,000, Deduct	-6.07		
		For >5,000 To 10,000, Deduct	-7.93		
		For >10,000, Deduct	-9.80		
02 41 13 13-0024	SY	>3" To 6" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	30.24		
		For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	9.07		
		Note: (Around Existing Structures And Obstructions), Add			
		For Elevated Slab, Add	15.12		
		For >500 To 1,000, Deduct	-3.02		
		For >1,000 To 2,500, Deduct	-5.44		
		For >2,500 To 5,000, Deduct	-7.86		
		For >5,000 To 10,000, Deduct	-10.28		
		For >10,000, Deduct	-12.70		
02 41 13 13-0025	SY	>6" To 9" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	50.12		
		For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	15.04		
		Note: (Around Existing Structures And Obstructions), Add			
		For Elevated Slab, Add	25.06		
		For >500 To 1,000, Deduct	-5.01		
		For >1,000 To 2,500, Deduct	-9.02		
		For >2,500 To 5,000, Deduct	-13.03		
		For >5,000 To 10,000, Deduct	-17.04		
		For >10,000, Deduct	-21.05		
02 41 13 13-0026	SY	Up To 3" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	25.30		
		For Elevated Slab, Add	12.65		
		For >500 To 1,000, Deduct	-2.53		
		For >1,000 To 2,500, Deduct	-4.55		
		For >2,500 To 5,000, Deduct	-6.58		
		For >5,000 To 10,000, Deduct	-8.60		
		For >10,000, Deduct	-10.63		
02 41 13 13-0027	SY	>3" To 6" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	32.54		
		For Elevated Slab, Add	16.27		
		For >500 To 1,000, Deduct	-3.25		
		For >1,000 To 2,500, Deduct	-5.86		
		For >2,500 To 5,000, Deduct	-8.46		
		For >5,000 To 10,000, Deduct	-11.06		
		For >10,000, Deduct	-13.67		
02 41 13 13-0028	SY	>6" To 9" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	58.17		
		For Elevated Slab, Add	29.09		
		For >500 To 1,000, Deduct	-5.82		
		For >1,000 To 2,500, Deduct	-10.47		
		For >2,500 To 5,000, Deduct	-15.12		
		For >5,000 To 10,000, Deduct	-19.78		
		For >10,000, Deduct	-24.43		

02 Existing Conditions**02 40 Demolition and Structure Moving****02 41 Demolition**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 13 13-0029 SY >9" To 14" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	75.91	
For Elevated Slab, Add	37.96	
For >500 To 1,000, Deduct	-7.59	
For >1,000 To 2,500, Deduct	-13.66	
For >2,500 To 5,000, Deduct	-19.74	
For >5,000 To 10,000, Deduct	-25.81	
For >10,000, Deduct	-31.88	
02 41 13 13-0030 SY >14" To 19" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	99.25	
For Elevated Slab, Add	49.63	
For >500 To 1,000, Deduct	-9.93	
For >1,000 To 2,500, Deduct	-17.87	
For >2,500 To 5,000, Deduct	-25.81	
For >5,000 To 10,000, Deduct	-33.75	
For >10,000, Deduct	-41.69	
02 41 13 13-0031 SY >19" To 24" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	120.45	
For Elevated Slab, Add	60.23	
For >500 To 1,000, Deduct	-12.05	
For >1,000 To 2,500, Deduct	-21.68	
For >2,500 To 5,000, Deduct	-31.32	
For >5,000 To 10,000, Deduct	-40.95	
For >10,000, Deduct	-50.59	
02 41 13 13-0032 By Hand, Break-up And Remove Bituminous And Concrete Paving (02 41 13 13)		
Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles. Work includes breaking into manageable size with jackhammer and hand tools, removal and loading onto a truck or dumpster. For individual work areas where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. Excludes saw cutting (where required) and disposal. See CSI section 02 41 19 13-0001 for saw cutting.		
02 41 13 13-0033 SF Up To 3" By Hand, Break-up And Remove Bituminous Paving.....	3.82	
02 41 13 13-0034 SF >3" To 6" By Hand, Break-up And Remove Bituminous Paving.....	5.03	
02 41 13 13-0035 SF >6" To 8" By Hand, Break-up And Remove Bituminous Paving.....	6.53	
02 41 13 13-0036 SF Up To 3" By Hand, Break-up And Remove Concrete Paving.....	4.78	
02 41 13 13-0037 SF >3" To 6" By Hand, Break-up And Remove Concrete Paving.....	6.60	
02 41 13 13-0038 SF >6" To 8" By Hand, Break-up And Remove Concrete Paving.....	8.45	
02 41 13 13-0039 SF Up To 3" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	6.69	
02 41 13 13-0040 SF >3" To 6" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	9.23	
02 41 13 13-0041 SF >6" To 8" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	11.83	
02 41 13 13-0042 Grind Concrete (02 41 13 13)		
02 41 13 13-0043 EA Grind Existing Sidewalks, Up To 1/2" Depth, To Remove Ridges (Tripping Hazard).....	237.56	
Note: For each location up to 5' wide, feather up to 12" each direction.		
For >1/2" To 1" Depth Of Grinding, Add	35.63	
For >1" To 1-1/2" Depth Of Grinding, Add	59.39	
For Up To 5, Add	47.51	
For >5 To 10, Add	23.76	
For >25 To 50, Deduct	-23.76	
For >50 To 250, Deduct	-35.63	
For >250, Deduct	-47.51	
For Sidewalks >5', Add	23.76	
For Up To 12" Additional Feathering Per Side, Add	23.76	
02 41 13 15 Hydro Demolition (02 41 13)		
02 41 13 15-0001 Hydro Demolition Of Concrete Pavement (02 41 13 15)		
Note: Includes removal but excludes disposal of concrete.		
02 41 13 15-0002 SF Up To 2" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....	7.21	
02 41 13 15-0003 SF >2" To 4" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....	9.01	
02 41 13 15-0004 SF >4" To 6" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....	12.05	
02 41 13 15-0005 SF >6" To 8" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....	23.99	
02 41 16 Structure Demolition (02 41)		
02 41 16 13 Building Demolition (02 41 16)		
02 41 16 13-0001 Foundation Demolition (02 41 16 13)		
Note: Excludes earthwork.		
02 41 16 13-0002 Concrete Foundation Demolition (02 41 16 13-0001)		
02 41 16 13-0003 CF Non Reinforced Concrete Foundation Demolition.....	14.38	
For >135 To 405, Deduct	-1.26	
For >405 To 810, Deduct	-2.52	
For >810 To 2025, Deduct	-3.60	
For >2025, Deduct	-5.75	
02 41 16 13-0004 CF Reinforced Concrete Foundation Demolition.....	17.27	
For >135 To 405, Deduct	-1.51	
For >405 To 810, Deduct	-3.02	
For >810 To 2025, Deduct	-4.32	
For >2025, Deduct	-6.91	
02 41 16 13-0005 Concrete Foundation Wall Demolition (02 41 16 13-0001)		



Existing Conditions		02
Demolition and Structure Moving		02 40
Demolition		02 41

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 16 13-0006 SF 4" Thick Non Reinforced Concrete Foundation Wall Demolition	6.17	
For >500 To 2,000, Deduct	-0.46	
For >2,000 To 6,000, Deduct	-1.23	
For >6,000 To 8,000, Deduct	-2.16	
For >8,000, Deduct	-3.39	
02 41 16 13-0007 SF 6" Thick Non Reinforced Concrete Foundation Wall Demolition	8.22	
For >500 To 2,000, Deduct	-0.62	
For >2,000 To 6,000, Deduct	-1.64	
For >6,000 To 8,000, Deduct	-2.88	
For >8,000, Deduct	-4.52	
02 41 16 13-0008 SF 8" Thick Non Reinforced Concrete Foundation Wall Demolition	10.28	
For >500 To 2,000, Deduct	-0.77	
For >2,000 To 6,000, Deduct	-2.06	
For >6,000 To 8,000, Deduct	-3.60	
For >8,000, Deduct	-5.65	
02 41 16 13-0009 SF 10" Thick Non Reinforced Concrete Foundation Wall Demolition	12.34	
For >500 To 2,000, Deduct	-0.93	
For >2,000 To 6,000, Deduct	-2.47	
For >6,000 To 8,000, Deduct	-4.32	
For >8,000, Deduct	-6.79	
02 41 16 13-0010 SF 12" Thick Non Reinforced Concrete Foundation Wall Demolition	14.38	
For >500 To 2,000, Deduct	-1.08	
For >2,000 To 6,000, Deduct	-2.88	
For >6,000 To 8,000, Deduct	-5.03	
For >8,000, Deduct	-7.91	
02 41 16 13-0011 SF 16" Thick Non Reinforced Concrete Foundation Wall Demolition	16.44	
For >500 To 2,000, Deduct	-1.23	
For >2,000 To 6,000, Deduct	-3.29	
For >6,000 To 8,000, Deduct	-5.75	
For >8,000, Deduct	-9.04	
02 41 16 13-0012 SF 4" Thick Reinforced Concrete Foundation Wall Demolition	7.40	
For >500 To 2,000, Deduct	-0.56	
For >2,000 To 6,000, Deduct	-1.48	
For >6,000 To 8,000, Deduct	-2.59	
For >8,000, Deduct	-4.07	
02 41 16 13-0013 SF 6" Thick Reinforced Concrete Foundation Wall Demolition	9.86	
For >500 To 2,000, Deduct	-0.74	
For >2,000 To 6,000, Deduct	-1.97	
For >6,000 To 8,000, Deduct	-3.45	
For >8,000, Deduct	-5.42	
02 41 16 13-0014 SF 8" Thick Reinforced Concrete Foundation Wall Demolition	12.34	
For >500 To 2,000, Deduct	-0.93	
For >2,000 To 6,000, Deduct	-2.47	
For >6,000 To 8,000, Deduct	-4.32	
For >8,000, Deduct	-6.79	
02 41 16 13-0015 SF 10" Thick Reinforced Concrete Foundation Wall Demolition	14.59	
For >500 To 2,000, Deduct	-1.09	
For >2,000 To 6,000, Deduct	-2.92	
For >6,000 To 8,000, Deduct	-5.11	
For >8,000, Deduct	-8.02	
02 41 16 13-0016 SF 12" Thick Reinforced Concrete Foundation Wall Demolition	17.27	
For >500 To 2,000, Deduct	-1.30	
For >2,000 To 6,000, Deduct	-3.45	
For >6,000 To 8,000, Deduct	-6.04	
For >8,000, Deduct	-9.50	
02 41 16 13-0017 SF 16" Thick Reinforced Concrete Foundation Wall Demolition	19.73	
For >500 To 2,000, Deduct	-1.48	
For >2,000 To 6,000, Deduct	-3.95	
For >6,000 To 8,000, Deduct	-6.91	
For >8,000, Deduct	-10.85	
02 41 16 13-0018 Concrete Block Foundation Wall Demolition (02 41 16 13-0001)		
02 41 16 13-0019 SF 4" Thick Non Reinforced Concrete Block Foundation Wall Demolition	4.52	
For >500 To 2,000, Deduct	-0.34	
For >2,000 To 6,000, Deduct	-0.90	
For >6,000 To 8,000, Deduct	-1.58	
For >8,000, Deduct	-2.49	
02 41 16 13-0020 SF 6" Thick Non Reinforced Concrete Block Foundation Wall Demolition	4.83	
For >500 To 2,000, Deduct	-0.36	
For >2,000 To 6,000, Deduct	-0.97	
For >6,000 To 8,000, Deduct	-1.69	
For >8,000, Deduct	-2.66	
02 41 16 13-0021 SF 8" Thick Non Reinforced Concrete Block Foundation Wall Demolition	5.45	
For >500 To 2,000, Deduct	-0.41	
For >2,000 To 6,000, Deduct	-1.09	
For >6,000 To 8,000, Deduct	-1.91	
For >8,000, Deduct	-3.00	
02 41 16 13-0022 SF 10" Thick Non Reinforced Concrete Block Foundation Wall Demolition	6.27	
For >500 To 2,000, Deduct	-0.47	
For >2,000 To 6,000, Deduct	-1.25	
For >6,000 To 8,000, Deduct	-2.19	
For >8,000, Deduct	-3.45	

02 Existing Conditions**02 40 Demolition and Structure Moving****02 41 Demolition**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 16 13-0023 SF 12" Thick Non Reinforced Concrete Block Foundation Wall Demolition	6.99	
For >500 To 2,000, Deduct	-0.52	
For >2,000 To 6,000, Deduct	-1.40	
For >6,000 To 8,000, Deduct	-2.45	
For >8,000, Deduct	-3.84	
02 41 16 13-0024 SF 16" Thick Non Reinforced Concrete Block Foundation Wall Demolition	8.73	
For >500 To 2,000, Deduct	-0.65	
For >2,000 To 6,000, Deduct	-1.75	
For >6,000 To 8,000, Deduct	-3.06	
For >8,000, Deduct	-4.80	
02 41 16 13-0025 SF 4" Thick Reinforced Concrete Block Foundation Wall Demolition	5.43	
For >500 To 2,000, Deduct	-0.41	
For >2,000 To 6,000, Deduct	-1.09	
For >6,000 To 8,000, Deduct	-1.90	
For >8,000, Deduct	-2.99	
02 41 16 13-0026 SF 6" Thick Reinforced Concrete Block Foundation Wall Demolition	5.80	
For >500 To 2,000, Deduct	-0.44	
For >2,000 To 6,000, Deduct	-1.16	
For >6,000 To 8,000, Deduct	-2.03	
For >8,000, Deduct	-3.19	
02 41 16 13-0027 SF 8" Thick Reinforced Concrete Block Foundation Wall Demolition	6.54	
For >500 To 2,000, Deduct	-0.49	
For >2,000 To 6,000, Deduct	-1.31	
For >6,000 To 8,000, Deduct	-2.29	
For >8,000, Deduct	-3.60	
02 41 16 13-0028 SF 10" Thick Reinforced Concrete Block Foundation Wall Demolition	7.53	
For >500 To 2,000, Deduct	-0.56	
For >2,000 To 6,000, Deduct	-1.51	
For >6,000 To 8,000, Deduct	-2.64	
For >8,000, Deduct	-4.14	
02 41 16 13-0029 SF 12" Thick Reinforced Concrete Block Foundation Wall Demolition	8.38	
For >500 To 2,000, Deduct	-0.63	
For >2,000 To 6,000, Deduct	-1.68	
For >6,000 To 8,000, Deduct	-2.93	
For >8,000, Deduct	-4.61	
02 41 16 13-0030 SF 16" Thick Reinforced Concrete Block Foundation Wall Demolition	10.48	
For >500 To 2,000, Deduct	-0.79	
For >2,000 To 6,000, Deduct	-2.10	
For >6,000 To 8,000, Deduct	-3.67	
For >8,000, Deduct	-5.76	
02 41 16 13-0031 Brick Foundation Wall Demolition (02 41 16 13-0001)		
02 41 16 13-0032 SF 4" Thick Brick Foundation Wall Demolition	4.52	
For >500 To 2,000, Deduct	-0.34	
For >2,000 To 6,000, Deduct	-0.90	
For >6,000 To 8,000, Deduct	-1.58	
For >8,000, Deduct	-2.49	
02 41 16 13-0033 SF 6" Thick Brick Foundation Wall Demolition	4.83	
For >500 To 2,000, Deduct	-0.36	
For >2,000 To 6,000, Deduct	-0.97	
For >6,000 To 8,000, Deduct	-1.69	
For >8,000, Deduct	-2.66	
02 41 16 13-0034 SF 8" Thick Brick Foundation Wall Demolition	5.45	
For >500 To 2,000, Deduct	-0.41	
For >2,000 To 6,000, Deduct	-1.09	
For >6,000 To 8,000, Deduct	-1.91	
For >8,000, Deduct	-3.00	
02 41 16 13-0035 SF 10" Thick Brick Foundation Wall Demolition	6.27	
For >500 To 2,000, Deduct	-0.47	
For >2,000 To 6,000, Deduct	-1.25	
For >6,000 To 8,000, Deduct	-2.19	
For >8,000, Deduct	-3.45	
02 41 16 13-0036 SF 12" Thick Brick Foundation Wall Demolition	6.99	
For >500 To 2,000, Deduct	-0.52	
For >2,000 To 6,000, Deduct	-1.40	
For >6,000 To 8,000, Deduct	-2.45	
For >8,000, Deduct	-3.84	
02 41 16 13-0037 SF 16" Thick Brick Foundation Wall Demolition	8.73	
For >500 To 2,000, Deduct	-0.65	
For >2,000 To 6,000, Deduct	-1.75	
For >6,000 To 8,000, Deduct	-3.06	
For >8,000, Deduct	-4.80	
02 41 16 13-0038 Stone Foundation Demolition (02 41 16 13-0001)		
02 41 16 13-0039 CF Stone Footing Or Foundation Wall Demolition	14.38	
For >135 To 405, Deduct	-1.26	
For >405 To 810, Deduct	-2.52	
For >810 To 2025, Deduct	-3.60	
For >2025, Deduct	-5.75	
02 41 16 13-0040 Other Foundation Demolition (02 41 16 13-0001)		



Existing Conditions		02
Demolition and Structure Moving		02 40
Demolition		02 41

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 16 13-0041	CF		Concrete Footing For Fence, Gate Or Playground Equipment Post, Etc. Demolition	14.95	
			Note: Includes excavation.		
			For >135 To 405, Deduct	-1.31	
			For >405 To 810, Deduct	-2.62	
			For >810 To 2025, Deduct	-3.74	
			For >2025, Deduct	-5.98	
02 41 19 Selective Demolition (02 41)					
02 41 19 13 Selective Building Demolition (02 41 19)					
02 41 19 13-0001 Saw Cutting (02 41 19 13)					
			Note: Includes blade wear, water, taping off area, layout, clean-up and mist spray with wet vacuuming for dust control where necessary. For projects where the total saw cutting charge is less than the minimum charge, use task "Saw Cut Minimum Charge" exclusively. Task "Saw Cut Minimum Charge" should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0002	LF		Bituminous Paving Up To 4" Depth, Saw Cut	2.14	
			For Each Additional Pass (Depth To 3"), Add	0.83	
			For >250, Deduct	-0.21	
02 41 19 13-0003	LF		Saw Cut Bituminous Paving Up To 6" Depth	2.98	
			For >250, Deduct	-0.29	
02 41 19 13-0004	LF		Brick Masonry Up To 4" Depth, Saw Cut	8.14	
			For Each Additional Pass (Depth To 3"), Add	3.23	
			For >250, Deduct	-0.81	
02 41 19 13-0005	LF		Concrete Block Up To 4" Depth, Saw Cut	7.35	
			For Each Additional Pass (Depth To 3"), Add	2.91	
			For >250, Deduct	-0.73	
02 41 19 13-0006	LF		Non Reinforced Concrete Slab Or Paving Up To 4" Depth, Saw Cut	2.45	
			For Each Additional Pass (Depth To 3"), Add	0.95	
			For >250, Deduct	-0.23	
02 41 19 13-0007	LF		Saw Cut Concrete Slab Or Paving Up To 6" Depth	3.40	
			For >250, Deduct	-0.33	
02 41 19 13-0008	LF		Welded Wire Reinforced Concrete Slab Up To 4" Depth, Saw Cut	3.24	
			For Each Additional Pass (Depth To 3"), Add	1.26	
			For >250, Deduct	-0.31	
02 41 19 13-0009	LF		Rod Reinforced Concrete Slab Up To 4" Depth, Saw Cut	5.38	
			For Each Additional Pass (Depth To 3"), Add	2.11	
			For >250, Deduct	-0.52	
02 41 19 13-0010	LF		Plain Concrete Walls Up To 4" Depth, Saw Cut	10.41	
			For Each Additional Pass (Depth To 3"), Add	4.13	
			For >250, Deduct	-1.03	
02 41 19 13-0011	LF		Saw Cut Rod Reinforced Concrete Walls Up To 4" Depth	14.00	
			For Each Additional Pass (Depth To 3"), Add	5.56	
			For >250, Deduct	-1.39	
02 41 19 13-0012	LF		Concrete And Asphalt Up To 4" Depth, Saw Cut In Streets	2.89	
			For Each Additional Pass (Depth To 3"), Add	1.04	
			For >250, Deduct	-0.25	
02 41 19 13-0013	LF		Igneous Stone Pavements Up To 4" Depth, Saw Cut	7.37	
			For Each Additional Pass (Depth To 3"), Add	2.92	
			For >250, Deduct	-0.73	
02 41 19 13-0014	LF		Sedimentary Stone Pavements Up To 4" Depth, Saw Cut	7.37	
			For Each Additional Pass (Depth To 3"), Add	2.92	
			For >250, Deduct	-0.73	
02 41 19 13-0015	LF		Metamorphic Stone Pavements Up To 4" Depth, Saw Cut	7.37	
			For Each Additional Pass (Depth To 3"), Add	2.92	
			For >250, Deduct	-0.73	
02 41 19 13-0016	LF		Terrazzo Stone Pavements Up To 4" Depth, Saw Cut	7.37	
			For Each Additional Pass (Depth To 3"), Add	2.92	
			For >250, Deduct	-0.73	
02 41 19 13-0017	EA		Saw Cut Minimum Charge	1,034.79	
			Note: For projects where the total saw cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0018 Torch Cutting (02 41 19 13)					
			Note: Includes grinding edge		
02 41 19 13-0019	LF		Up To 1/2", Torch Cut Steel Plate	3.02	
02 41 19 13-0020	LF		>1/2" To 1" Thick, Torch Cut Steel Plate	6.04	
02 41 19 13-0021	LF		>1" To 1-1/2" Thick, Torch Cut Steel Plate	9.06	
02 41 19 13-0022	LF		>1-1/2" To 2" Thick, Torch Cut Steel Plate	12.08	
02 41 19 13-0023	LF		>2" To 2-1/2" Thick, Torch Cut Steel Plate	15.11	
02 41 19 13-0024	LF		>2-1/2" To 3" Thick, Torch Cut Steel Plate	18.13	
02 41 19 13-0025	EA		Torch Cutting Minimum Charge	987.36	
			Note: For projects where the total torch cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0026 Drilling In Existing Materials (02 41 19 13)					
			Note: Includes drill bit wear, water, layout, set-up and clean-up.		
02 41 19 13-0027 Concrete Core Drilling (02 41 19 13-0026)					
02 41 19 13-0028 Up To 4" Thick Concrete Core Drilling (02 41 19 13-0027)					

02 Existing Conditions**02 40 Demolition and Structure Moving****02 41 Demolition**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0029 EA Drill 1" Diameter Core In Up To 4" Concrete.....	39.98	
For Horizontal Cores, Add	7.91	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	15.82	
02 41 19 13-0030 EA Drill 1-1/2" Diameter Core In Up To 4" Concrete	44.36	
For Horizontal Cores, Add	8.79	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	17.57	
02 41 19 13-0031 EA Drill 2" Diameter Core In Up To 4" Concrete.....	49.25	
For Horizontal Cores, Add	9.76	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	19.53	
02 41 19 13-0032 EA Drill 3" Diameter Core In Up To 4" Concrete.....	70.33	
For Horizontal Cores, Add	13.95	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	27.90	
02 41 19 13-0033 EA Drill 4" Diameter Core In Up To 4" Concrete.....	94.24	
For Horizontal Cores, Add	18.69	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	37.38	
02 41 19 13-0034 EA Drill 6" Diameter Core In Up To 4" Concrete.....	105.60	
For Horizontal Cores, Add	20.92	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	41.85	
02 41 19 13-0035 EA Drill 8" Diameter Core In Up To 4" Concrete.....	168.75	
For Horizontal Cores, Add	33.48	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	66.96	
02 41 19 13-0036 EA Drill 10" Diameter Core In Up To 4" Concrete.....	211.08	
For Horizontal Cores, Add	41.85	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	83.70	
02 41 19 13-0037 EA Drill 12" Diameter Core In Up To 4" Concrete.....	246.32	
For Horizontal Cores, Add	48.82	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	97.65	
02 41 19 13-0038 EA Drill 14" Diameter Core In Up To 4" Concrete.....	281.59	
For Horizontal Cores, Add	55.79	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	111.59	
02 41 19 13-0039 EA Drill 18" Diameter Core In Up To 4" Concrete.....	317.19	
For Horizontal Cores, Add	62.76	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	125.53	
02 41 19 13-0040 >4" To 6" Thick Concrete Core Drilling (02 41 19 13-0027)		
02 41 19 13-0041 EA Drill 1" Diameter Core In >4" To 6" Concrete.....	57.15	
For Horizontal Cores, Add	11.30	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	22.60	
02 41 19 13-0042 EA Drill 1-1/2" Diameter Core In >4" To 6" Concrete.....	63.42	
For Horizontal Cores, Add	12.55	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	25.10	
02 41 19 13-0043 EA Drill 2" Diameter Core In >4" To 6" Concrete.....	70.39	
For Horizontal Cores, Add	13.95	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	27.89	
02 41 19 13-0044 EA Drill 3" Diameter Core In >4" To 6" Concrete.....	84.60	
For Horizontal Cores, Add	16.74	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	33.48	
02 41 19 13-0045 EA Drill 4" Diameter Core In >4" To 6" Concrete.....	105.82	
For Horizontal Cores, Add	20.92	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	41.85	
02 41 19 13-0046 EA Drill 6" Diameter Core In >4" To 6" Concrete.....	140.98	
For Horizontal Cores, Add	27.90	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	55.80	
02 41 19 13-0047 EA Drill 8" Diameter Core In >4" To 6" Concrete.....	211.28	
For Horizontal Cores, Add	41.85	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	83.70	
02 41 19 13-0048 EA Drill 10" Diameter Core In >4" To 6" Concrete.....	246.87	
For Horizontal Cores, Add	48.82	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	97.65	
02 41 19 13-0049 EA Drill 12" Diameter Core In >4" To 6" Concrete.....	282.27	
For Horizontal Cores, Add	55.79	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	111.59	
02 41 19 13-0050 EA Drill 14" Diameter Core In >4" To 6" Concrete.....	317.83	
For Horizontal Cores, Add	62.76	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	125.53	
02 41 19 13-0051 EA Drill 18" Diameter Core In >4" To 6" Concrete.....	353.91	
For Horizontal Cores, Add	69.74	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	139.49	
02 41 19 13-0052 >6" To 8" Thick Concrete Core Drilling (02 41 19 13-0027)		
02 41 19 13-0053 EA Drill 1" Diameter Core In >6" To 8" Concrete.....	63.05	
For Horizontal Cores, Add	12.43	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	24.86	
02 41 19 13-0054 EA Drill 1-1/2" Diameter Core In >6" To 8" Concrete.....	69.95	
For Horizontal Cores, Add	13.81	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	27.62	
02 41 19 13-0055 EA Drill 2" Diameter Core In >6" To 8" Concrete.....	77.62	
For Horizontal Cores, Add	15.34	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	30.69	
02 41 19 13-0056 EA Drill 3" Diameter Core In >6" To 8" Concrete.....	91.90	
For Horizontal Cores, Add	18.13	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	36.27	



Existing Conditions		02
Demolition and Structure Moving		02 40
Demolition		02 41

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0057 EA Drill 4" Diameter Core In >6" To 8" Concrete.....	120.18	
For Horizontal Cores, Add	23.71	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	47.42	
02 41 19 13-0058 EA Drill 6" Diameter Core In >6" To 8" Concrete.....	169.40	
For Horizontal Cores, Add	33.48	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	66.96	
02 41 19 13-0059 EA Drill 8" Diameter Core In >6" To 8" Concrete.....	281.70	
For Horizontal Cores, Add	55.79	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	111.59	
02 41 19 13-0060 EA Drill 10" Diameter Core In >6" To 8" Concrete.....	317.48	
For Horizontal Cores, Add	62.76	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	125.53	
02 41 19 13-0061 EA Drill 12" Diameter Core In >6" To 8" Concrete.....	353.11	
For Horizontal Cores, Add	69.74	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	139.49	
02 41 19 13-0062 EA Drill 14" Diameter Core In >6" To 8" Concrete.....	388.91	
For Horizontal Cores, Add	76.70	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	153.41	
02 41 19 13-0063 EA Drill 18" Diameter Core In >6" To 8" Concrete.....	425.48	
For Horizontal Cores, Add	83.69	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	167.39	
02 41 19 13-0064 >8" To 10" Thick Concrete Core Drilling (02 41 19 13-0027)		
02 41 19 13-0065 EA Drill 1" Diameter Core In >8" To 10" Concrete.....	74.57	
For Horizontal Cores, Add	14.69	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	29.38	
02 41 19 13-0066 EA Drill 1-1/2" Diameter Core In >8" To 10" Concrete.....	82.73	
For Horizontal Cores, Add	16.32	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	32.64	
02 41 19 13-0067 EA Drill 2" Diameter Core In >8" To 10" Concrete.....	91.80	
For Horizontal Cores, Add	18.13	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	36.27	
02 41 19 13-0068 EA Drill 3" Diameter Core In >8" To 10" Concrete.....	106.18	
For Horizontal Cores, Add	20.92	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	41.85	
02 41 19 13-0069 EA Drill 4" Diameter Core In >8" To 10" Concrete.....	120.60	
For Horizontal Cores, Add	23.71	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	47.42	
02 41 19 13-0070 EA Drill 6" Diameter Core In >8" To 10" Concrete.....	169.91	
For Horizontal Cores, Add	33.48	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	66.96	
02 41 19 13-0071 EA Drill 8" Diameter Core In >8" To 10" Concrete.....	282.39	
For Horizontal Cores, Add	55.79	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	111.59	
02 41 19 13-0072 EA Drill 10" Diameter Core In >8" To 10" Concrete.....	318.39	
For Horizontal Cores, Add	62.76	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	125.53	
02 41 19 13-0073 EA Drill 12" Diameter Core In >8" To 10" Concrete.....	354.12	
For Horizontal Cores, Add	69.73	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	139.46	
02 41 19 13-0074 EA Drill 14" Diameter Core In >8" To 10" Concrete.....	390.29	
For Horizontal Cores, Add	76.70	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	153.41	
02 41 19 13-0075 EA Drill 18" Diameter Core In >8" To 10" Concrete.....	427.21	
For Horizontal Cores, Add	83.68	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	167.35	
02 41 19 13-0076 >10" To 12" Thick Concrete Core Drilling (02 41 19 13-0027)		
02 41 19 13-0077 EA Drill 1" Diameter Core In >10" To 12" Concrete.....	80.46	
For Horizontal Cores, Add	15.82	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	31.64	
02 41 19 13-0078 EA Drill 1-1/2" Diameter Core In >10" To 12" Concrete.....	89.25	
For Horizontal Cores, Add	17.58	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	35.15	
02 41 19 13-0079 EA Drill 2" Diameter Core In >10" To 12" Concrete.....	99.01	
For Horizontal Cores, Add	19.53	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	39.06	
02 41 19 13-0080 EA Drill 3" Diameter Core In >10" To 12" Concrete.....	106.51	
For Horizontal Cores, Add	20.92	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	41.85	
02 41 19 13-0081 EA Drill 4" Diameter Core In >10" To 12" Concrete.....	141.95	
For Horizontal Cores, Add	27.90	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	55.80	
02 41 19 13-0082 EA Drill 6" Diameter Core In >10" To 12" Concrete.....	184.37	
For Horizontal Cores, Add	36.27	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	72.54	
02 41 19 13-0083 EA Drill 8" Diameter Core In >10" To 12" Concrete.....	297.04	
For Horizontal Cores, Add	58.58	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	117.17	
02 41 19 13-0084 EA Drill 10" Diameter Core In >10" To 12" Concrete.....	319.30	
For Horizontal Cores, Add	62.76	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	125.53	

02 Existing Conditions**02 40 Demolition and Structure Moving****02 41 Demolition**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0085 EA Drill 12" Diameter Core In >10" To 12" Concrete.....	369.27	
For Horizontal Cores, Add	72.54	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	145.08	
02 41 19 13-0086 >12" Thick Concrete Core Drilling (02 41 19 13-0027)		
02 41 19 13-0087 IN Drill 1" Diameter Core In >12" Concrete.....	9.78	
For Horizontal Cores, Add	1.93	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	3.87	
02 41 19 13-0088 IN Drill 1-1/2" Diameter Core In >12" Concrete.....	10.85	
For Horizontal Cores, Add	2.15	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	4.30	
02 41 19 13-0089 IN Drill 2" Diameter Core In >12" Concrete.....	12.05	
For Horizontal Cores, Add	2.39	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	4.78	
02 41 19 13-0090 IN Drill 3" Diameter Core In >12" Concrete.....	13.24	
For Horizontal Cores, Add	2.62	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	5.23	
02 41 19 13-0091 IN Drill 4" Diameter Core In >12" Concrete.....	17.63	
For Horizontal Cores, Add	3.49	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	6.97	
02 41 19 13-0092 IN Drill 6" Diameter Core In >12" Concrete.....	22.93	
For Horizontal Cores, Add	4.54	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	9.07	
02 41 19 13-0093 IN Drill 8" Diameter Core In >12" Concrete.....	36.99	
For Horizontal Cores, Add	7.33	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	14.66	
02 41 19 13-0094 IN Drill 10" Diameter Core In >12" Concrete.....	39.86	
For Horizontal Cores, Add	7.88	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	15.76	
02 41 19 13-0095 IN Drill 12" Diameter Core In >12" Concrete.....	45.91	
For Horizontal Cores, Add	9.07	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	18.14	
02 41 19 13-0096 Brick/Concrete Block Core Drilling (02 41 19 13-0026)		
02 41 19 13-0097 Up To 4" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0096)		
02 41 19 13-0098 EA Drill 1" Diameter Core In Up To 4" Brick/Concrete Block.....	32.07	
For Horizontal Cores, Add	6.33	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	12.66	
02 41 19 13-0099 EA Drill 1-1/2" Diameter Core In Up To 4" Brick/Concrete Block.....	35.57	
For Horizontal Cores, Add	7.03	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	14.06	
02 41 19 13-0100 EA Drill 2" Diameter Core In Up To 4" Brick/Concrete Block.....	39.49	
For Horizontal Cores, Add	7.81	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	15.62	
02 41 19 13-0101 EA Drill 3" Diameter Core In Up To 4" Brick/Concrete Block.....	56.38	
For Horizontal Cores, Add	11.16	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	22.32	
02 41 19 13-0102 EA Drill 4" Diameter Core In Up To 4" Brick/Concrete Block.....	75.55	
For Horizontal Cores, Add	14.95	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	29.91	
02 41 19 13-0103 EA Drill 6" Diameter Core In Up To 4" Brick/Concrete Block.....	84.67	
For Horizontal Cores, Add	16.74	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	33.48	
02 41 19 13-0104 EA Drill 8" Diameter Core In Up To 4" Brick/Concrete Block.....	135.26	
For Horizontal Cores, Add	26.78	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	53.56	
02 41 19 13-0105 EA Drill 10" Diameter Core In Up To 4" Brick/Concrete Block.....	169.23	
For Horizontal Cores, Add	33.48	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	66.96	
02 41 19 13-0106 EA Drill 12" Diameter Core In Up To 4" Brick/Concrete Block.....	197.50	
For Horizontal Cores, Add	39.06	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	78.12	
02 41 19 13-0107 EA Drill 14" Diameter Core In Up To 4" Brick/Concrete Block.....	225.79	
For Horizontal Cores, Add	44.63	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	89.27	
02 41 19 13-0108 EA Drill 18" Diameter Core In Up To 4" Brick/Concrete Block.....	254.42	
For Horizontal Cores, Add	50.21	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	100.42	
02 41 19 13-0109 >4" To 6" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0096)		
02 41 19 13-0110 EA Drill 1" Diameter Core In >4" To 6" Brick/Concrete Block.....	45.84	
For Horizontal Cores, Add	9.04	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	18.07	
02 41 19 13-0111 EA Drill 1-1/2" Diameter Core In >4" To 6" Brick/Concrete Block.....	50.87	
For Horizontal Cores, Add	10.04	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	20.08	
02 41 19 13-0112 EA Drill 2" Diameter Core In >4" To 6" Brick/Concrete Block.....	56.45	
For Horizontal Cores, Add	11.16	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	22.32	



		Existing Conditions	02
		Demolition and Structure Moving	02 40
		Demolition	02 41

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0113 EA Drill 3" Diameter Core In >4" To 6" Brick/Concrete Block 67.86 For Horizontal Cores, Add 13.39 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 26.78		
02 41 19 13-0114 EA Drill 4" Diameter Core In >4" To 6" Brick/Concrete Block 84.89 For Horizontal Cores, Add 16.74 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 33.48		
02 41 19 13-0115 EA Drill 6" Diameter Core In >4" To 6" Brick/Concrete Block 113.09 For Horizontal Cores, Add 22.32 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 44.64		
02 41 19 13-0116 EA Drill 8" Diameter Core In >4" To 6" Brick/Concrete Block 169.43 For Horizontal Cores, Add 33.48 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 66.96		
02 41 19 13-0117 EA Drill 10" Diameter Core In >4" To 6" Brick/Concrete Block 198.05 For Horizontal Cores, Add 39.06 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 78.12		
02 41 19 13-0118 EA Drill 12" Diameter Core In >4" To 6" Brick/Concrete Block 226.47 For Horizontal Cores, Add 44.63 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 89.27		
02 41 19 13-0119 EA Drill 14" Diameter Core In >4" To 6" Brick/Concrete Block 255.06 For Horizontal Cores, Add 50.21 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 100.42		
02 41 19 13-0120 EA Drill 18" Diameter Core In >4" To 6" Brick/Concrete Block 284.16 For Horizontal Cores, Add 55.79 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 111.59		
02 41 19 13-0121 >6" To 8" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0096)		
02 41 19 13-0122 EA Drill 1" Diameter Core In >6" To 8" Brick/Concrete Block 50.61 For Horizontal Cores, Add 9.94 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 19.88		
02 41 19 13-0123 EA Drill 1-1/2" Diameter Core In >6" To 8" Brick/Concrete Block 56.14 For Horizontal Cores, Add 11.05 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 22.10		
02 41 19 13-0124 EA Drill 2" Diameter Core In >6" To 8" Brick/Concrete Block 62.27 For Horizontal Cores, Add 12.27 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 24.55		
02 41 19 13-0125 EA Drill 3" Diameter Core In >6" To 8" Brick/Concrete Block 73.77 For Horizontal Cores, Add 14.51 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 29.02		
02 41 19 13-0126 EA Drill 4" Diameter Core In >6" To 8" Brick/Concrete Block 96.48 For Horizontal Cores, Add 18.97 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 37.94		
02 41 19 13-0127 EA Drill 6" Diameter Core In >6" To 8" Brick/Concrete Block 135.91 For Horizontal Cores, Add 26.78 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 53.56		
02 41 19 13-0128 EA Drill 8" Diameter Core In >6" To 8" Brick/Concrete Block 225.90 For Horizontal Cores, Add 44.63 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 89.27		
02 41 19 13-0129 EA Drill 10" Diameter Core In >6" To 8" Brick/Concrete Block 254.71 For Horizontal Cores, Add 50.21 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 100.42		
02 41 19 13-0130 EA Drill 12" Diameter Core In >6" To 8" Brick/Concrete Block 283.36 For Horizontal Cores, Add 55.79 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 111.59		
02 41 19 13-0131 EA Drill 14" Diameter Core In >6" To 8" Brick/Concrete Block 312.20 For Horizontal Cores, Add 61.36 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 122.72		
02 41 19 13-0132 EA Drill 18" Diameter Core In >6" To 8" Brick/Concrete Block 341.79 For Horizontal Cores, Add 66.96 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 133.91		
02 41 19 13-0133 >8" To 10" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0096)		
02 41 19 13-0134 EA Drill 1" Diameter Core In >8" To 10" Brick/Concrete Block 59.88 For Horizontal Cores, Add 11.75 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 23.50		
02 41 19 13-0135 EA Drill 1-1/2" Diameter Core In >8" To 10" Brick/Concrete Block 66.41 For Horizontal Cores, Add 13.06 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 26.11		
02 41 19 13-0136 EA Drill 2" Diameter Core In >8" To 10" Brick/Concrete Block 73.66 For Horizontal Cores, Add 14.51 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 29.01		
02 41 19 13-0137 EA Drill 3" Diameter Core In >8" To 10" Brick/Concrete Block 85.25 For Horizontal Cores, Add 16.74 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 33.48		
02 41 19 13-0138 EA Drill 4" Diameter Core In >8" To 10" Brick/Concrete Block 96.90 For Horizontal Cores, Add 18.97 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 37.94		
02 41 19 13-0139 EA Drill 6" Diameter Core In >8" To 10" Brick/Concrete Block 136.42 For Horizontal Cores, Add 26.78 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 53.56		
02 41 19 13-0140 EA Drill 8" Diameter Core In >8" To 10" Brick/Concrete Block 226.59 For Horizontal Cores, Add 44.63 For Overhead Ceiling Cores (Where Not Accessible From Above), Add 89.27		

02 Existing Conditions**02 40 Demolition and Structure Moving****02 41 Demolition**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0141 EA Drill 10" Diameter Core In >8" To 10" Brick/Concrete Block	255.62	
For Horizontal Cores, Add	50.21	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	100.42	
02 41 19 13-0142 EA Drill 12" Diameter Core In >8" To 10" Brick/Concrete Block	284.40	
For Horizontal Cores, Add	55.78	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	111.57	
02 41 19 13-0143 EA Drill 14" Diameter Core In >8" To 10" Brick/Concrete Block	313.58	
For Horizontal Cores, Add	61.36	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	122.72	
02 41 19 13-0144 EA Drill 18" Diameter Core In >8" To 10" Brick/Concrete Block	343.53	
For Horizontal Cores, Add	66.94	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	133.88	
02 41 19 13-0145 >10" To 12" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0096)		
02 41 19 13-0146 EA Drill 1" Diameter Core In >10" To 12" Brick/Concrete Block	64.65	
For Horizontal Cores, Add	12.66	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	25.31	
02 41 19 13-0147 EA Drill 1-1/2" Diameter Core In >10" To 12" Brick/Concrete Block	71.67	
For Horizontal Cores, Add	14.06	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	28.12	
02 41 19 13-0148 EA Drill 2" Diameter Core In >10" To 12" Brick/Concrete Block	79.49	
For Horizontal Cores, Add	15.62	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	31.25	
02 41 19 13-0149 EA Drill 3" Diameter Core In >10" To 12" Brick/Concrete Block	85.58	
For Horizontal Cores, Add	16.74	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	33.48	
02 41 19 13-0150 EA Drill 4" Diameter Core In >10" To 12" Brick/Concrete Block	114.06	
For Horizontal Cores, Add	22.32	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	44.64	
02 41 19 13-0151 EA Drill 6" Diameter Core In >10" To 12" Brick/Concrete Block	148.10	
For Horizontal Cores, Add	29.02	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	58.03	
02 41 19 13-0152 EA Drill 8" Diameter Core In >10" To 12" Brick/Concrete Block	238.47	
For Horizontal Cores, Add	46.87	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	93.74	
02 41 19 13-0153 EA Drill 10" Diameter Core In >10" To 12" Brick/Concrete Block	256.53	
For Horizontal Cores, Add	50.21	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	100.42	
02 41 19 13-0154 EA Drill 12" Diameter Core In >10" To 12" Brick/Concrete Block	296.73	
For Horizontal Cores, Add	58.03	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	116.06	
02 41 19 13-0155 >12" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0096)		
02 41 19 13-0156 IN Drill 1" Diameter Core In >12" Brick/Concrete Block	7.85	
For Horizontal Cores, Add	1.55	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	3.10	
02 41 19 13-0157 IN Drill 1-1/2" Diameter Core In >12" Brick/Concrete Block	8.70	
For Horizontal Cores, Add	1.72	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	3.44	
02 41 19 13-0158 IN Drill 2" Diameter Core In >12" Brick/Concrete Block	9.66	
For Horizontal Cores, Add	1.91	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	3.82	
02 41 19 13-0159 IN Drill 3" Diameter Core In >12" Brick/Concrete Block	10.61	
For Horizontal Cores, Add	2.09	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	4.18	
02 41 19 13-0160 IN Drill 4" Diameter Core In >12" Brick/Concrete Block	14.14	
For Horizontal Cores, Add	2.79	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	5.58	
02 41 19 13-0161 IN Drill 6" Diameter Core In >12" Brick/Concrete Block	18.39	
For Horizontal Cores, Add	3.63	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	7.26	
02 41 19 13-0162 IN Drill 8" Diameter Core In >12" Brick/Concrete Block	29.66	
For Horizontal Cores, Add	5.86	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	11.73	
02 41 19 13-0163 IN Drill 10" Diameter Core In >12" Brick/Concrete Block	31.98	
For Horizontal Cores, Add	6.30	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	12.61	
02 41 19 13-0164 IN Drill 12" Diameter Core In >12" Brick/Concrete Block	36.84	
For Horizontal Cores, Add	7.26	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	14.52	
02 41 19 13-0165 Asphalt Core Drilling (02 41 19 13-0026)		
02 41 19 13-0166 Up To 2" Thick Asphalt Core Drilling (02 41 19 13-0165)		
02 41 19 13-0167 EA Drill 2" Diameter Core In Up To 2" Asphalt	29.98	
02 41 19 13-0168 EA Drill 3" Diameter Core In Up To 2" Asphalt	37.19	
02 41 19 13-0169 EA Drill 4" Diameter Core In Up To 2" Asphalt	46.80	
02 41 19 13-0170 EA Drill 6" Diameter Core In Up To 2" Asphalt	58.80	
02 41 19 13-0171 EA Drill 8" Diameter Core In Up To 2" Asphalt	73.23	
02 41 19 13-0172 EA Drill 10" Diameter Core In Up To 2" Asphalt	91.20	
02 41 19 13-0173 EA Drill 12" Diameter Core In Up To 2" Asphalt	113.98	



Existing Conditions		02
Demolition and Structure Moving		02 40
Demolition		02 41

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0174 >2" To 3" Thick Asphalt Core Drilling (02 41 19 13-0165)		
02 41 19 13-0175 EA Drill 2" Diameter Core In >2" To 3" Asphalt	38.35	
02 41 19 13-0176 EA Drill 3" Diameter Core In >2" To 3" Asphalt	47.96	
02 41 19 13-0177 EA Drill 4" Diameter Core In >2" To 3" Asphalt	59.96	
02 41 19 13-0178 EA Drill 6" Diameter Core In >2" To 3" Asphalt	75.55	
02 41 19 13-0179 EA Drill 8" Diameter Core In >2" To 3" Asphalt	93.59	
02 41 19 13-0180 EA Drill 10" Diameter Core In >2" To 3" Asphalt	117.54	
02 41 19 13-0181 EA Drill 12" Diameter Core In >2" To 3" Asphalt	146.30	
02 41 19 13-0182 >3" To 4" Thick Asphalt Core Drilling (02 41 19 13-0165)		
02 41 19 13-0183 EA Drill 2" Diameter Core In >3" To 4" Asphalt	49.17	
02 41 19 13-0184 EA Drill 3" Diameter Core In >3" To 4" Asphalt	61.18	
02 41 19 13-0185 EA Drill 4" Diameter Core In >3" To 4" Asphalt	76.79	
02 41 19 13-0186 EA Drill 6" Diameter Core In >3" To 4" Asphalt	96.00	
02 41 19 13-0187 EA Drill 8" Diameter Core In >3" To 4" Asphalt	120.04	
02 41 19 13-0188 EA Drill 10" Diameter Core In >3" To 4" Asphalt	150.00	
02 41 19 13-0189 EA Drill 12" Diameter Core In >3" To 4" Asphalt	187.16	
02 41 19 13-0190 >4" To 6" Thick Asphalt Core Drilling (02 41 19 13-0165)		
02 41 19 13-0191 EA Drill 2" Diameter Core In >4" To 6" Asphalt	62.41	
02 41 19 13-0192 EA Drill 3" Diameter Core In >4" To 6" Asphalt	79.25	
02 41 19 13-0193 EA Drill 4" Diameter Core In >4" To 6" Asphalt	98.49	
02 41 19 13-0194 EA Drill 6" Diameter Core In >4" To 6" Asphalt	122.51	
02 41 19 13-0195 EA Drill 8" Diameter Core In >4" To 6" Asphalt	153.82	
02 41 19 13-0196 EA Drill 10" Diameter Core In >4" To 6" Asphalt	192.17	
02 41 19 13-0197 EA Drill 12" Diameter Core In >4" To 6" Asphalt	240.17	
02 41 19 13-0198 Manhole Core Drilling (02 41 19 13-0026)		
02 41 19 13-0199 EA Drill 4" Diameter Core In 6" Brick Manhole	210.05	
02 41 19 13-0200 EA Drill 5" Diameter Core In 6" Brick Manhole	240.05	
02 41 19 13-0201 EA Drill 6" Diameter Core In 6" Brick Manhole	279.97	
02 41 19 13-0202 EA Drill 8" Diameter Core In 6" Brick Manhole	419.84	
02 41 19 13-0203 EA Drill 2" Diameter Core In 8" Concrete Manhole	281.43	
02 41 19 13-0204 EA Drill 3" Diameter Core In 8" Concrete Manhole	299.68	
02 41 19 13-0205 EA Drill 4" Diameter Core In 8" Concrete Manhole	329.91	
02 41 19 13-0206 EA Drill 5" Diameter Core In 8" Concrete Manhole	353.97	
02 41 19 13-0207 EA Drill 6" Diameter Core In 8" Concrete Manhole	419.82	
02 41 19 13-0208 EA Drill 8" Diameter Core In 8" Concrete Manhole	599.61	
02 41 19 13-0209 EA Drill 2" Diameter Core In Fiberglass Manhole	27.91	
02 41 19 13-0210 EA Drill 3" Diameter Core In Fiberglass Manhole	32.22	
02 41 19 13-0211 EA Drill 4" Diameter Core In Fiberglass Manhole	34.91	
02 41 19 13-0212 EA Drill 5" Diameter Core In Fiberglass Manhole	38.09	
02 41 19 13-0213 EA Drill 6" Diameter Core In Fiberglass Manhole	41.90	
02 41 19 13-0214 EA Drill 8" Diameter Core In Fiberglass Manhole	46.56	
02 41 19 13-0215 Drilling In Concrete Per Inch Of Depth (02 41 19 13-0026)		
Note: Includes layout.		
02 41 19 13-0216 IN 1/4" Diameter Drilling In Concrete Per Inch Of Depth	2.21	
02 41 19 13-0217 IN 3/8" Diameter Drilling In Concrete Per Inch Of Depth	2.32	
02 41 19 13-0218 IN 1/2" Diameter Drilling In Concrete Per Inch Of Depth	2.48	
02 41 19 13-0219 IN 5/8" Diameter Drilling In Concrete Per Inch Of Depth	2.64	
02 41 19 13-0220 IN 3/4" Diameter Drilling In Concrete Per Inch Of Depth	2.91	
02 41 19 13-0221 IN 7/8" Diameter Drilling In Concrete Per Inch Of Depth	3.14	
02 41 19 13-0222 IN 1" Diameter Drilling In Concrete Per Inch Of Depth	3.31	
02 41 19 13-0223 IN 1-1/4" Diameter Drilling In Concrete Per Inch Of Depth	3.65	
02 41 19 13-0224 IN 1-1/2" Diameter Drilling In Concrete Per Inch Of Depth	4.14	
02 41 19 13-0225 Drilling In Brick/Concrete Block Per Inch Of Depth (02 41 19 13-0026)		
Note: Includes layout.		
02 41 19 13-0226 IN 1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	1.84	
02 41 19 13-0227 IN 3/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	1.93	
02 41 19 13-0228 IN 1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.07	
02 41 19 13-0229 IN 5/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.21	
02 41 19 13-0230 IN 3/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.42	
02 41 19 13-0231 IN 7/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.62	
02 41 19 13-0232 IN 1" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.75	
02 41 19 13-0233 IN 1-1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	3.04	
02 41 19 13-0234 IN 1-1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	3.96	
02 41 19 13-0235 Drilling In Wood Or Plastic Per Inch Of Depth (02 41 19 13-0026)		
Note: Includes layout.		
02 41 19 13-0236 IN 1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	0.91	

02	Existing Conditions
02 40	Demolition and Structure Moving
02 41	Demolition



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0237 IN 3/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	0.97	
02 41 19 13-0238 IN 1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.03	
02 41 19 13-0239 IN 5/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.10	
02 41 19 13-0240 IN 3/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.21	
02 41 19 13-0241 IN 7/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.30	
02 41 19 13-0242 IN 1" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.38	
02 41 19 13-0243 IN 1-1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.51	
02 41 19 13-0244 IN 1-1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....	1.82	
02 41 19 13-0245 Drilling In Drywall Or Plaster Per Inch Of Depth (02 41 19 13-0026)		
Note: Includes layout, high efficiency particulate air (HEPA) vacuum and protection.		
02 41 19 13-0246 IN 1/4" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth.....	0.91	
02 41 19 13-0247 IN 3/8" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth.....	0.97	
02 41 19 13-0248 IN 1/2" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth.....	1.03	
02 41 19 13-0249 IN 5/8" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth.....	1.10	
02 41 19 13-0250 IN 3/4" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth.....	1.21	
02 41 19 13-0251 IN 7/8" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth.....	1.30	
02 41 19 13-0252 IN 1" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth.....	1.38	
02 41 19 13-0253 IN 1-1/4" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth.....	1.51	
02 41 19 13-0254 IN 1-1/2" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth.....	1.82	
02 41 19 13-0255 IN Drill 2" Diameter Core In Wood Or Plastic Per Inch Of Depth.....	2.34	
02 41 19 13-0256 IN Drill 3" Diameter Core In Wood Or Plastic Per Inch Of Depth.....	2.90	
02 41 19 13-0257 IN Drill 4" Diameter Core In Wood Or Plastic Per Inch Of Depth.....	3.66	
02 41 19 13-0258 IN Drill 5" Diameter Core In Wood Or Plastic Per Inch Of Depth.....	4.12	
02 41 19 13-0259 IN Drill 6" Diameter Core In Wood Or Plastic Per Inch Of Depth.....	4.60	
02 41 19 13-0260 Minimum Charge For Core Drilling (02 41 19 13-0026)		
02 41 19 13-0261 EA Core Drill Minimum Charge.....	831.48	
Note: For projects where the total core drilling charge is less than the minimum charge, use task "Minimum Charge For Core Drilling" exclusively. Task "Minimum Charge For Core Drilling" should not be used in conjunction with any other tasks in this section. Does not apply to sections "Drilling In Concrete Per Inch Of Depth" or "Drilling In Brick Or Block Per Inch Of Depth" or "Drilling In Wood Or Plastic Per Inch Of Depth".		
02 41 19 13-0262 Cutouts (02 41 19 13)		
Note: Includes saw cutting and removal of material. Not to be used for openings greater than 24 SF.		
02 41 19 13-0263 Reinforced Concrete Slab On Grade Cutouts (02 41 19 13-0262)		
02 41 19 13-0264 SF 4" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF	49.15	
02 41 19 13-0265 SF 6" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF	52.12	
02 41 19 13-0266 SF 8" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF	55.11	
02 41 19 13-0267 SF 10" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF	58.08	
02 41 19 13-0268 SF 12" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF	59.57	
02 41 19 13-0269 Reinforced Concrete Elevated Slab Cutouts (02 41 19 13-0262)		
Note: Includes cutting and removing steel decking.		
02 41 19 13-0270 SF 4" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF	59.90	
02 41 19 13-0271 SF 6" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF	63.54	
02 41 19 13-0272 SF 8" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF	67.16	
02 41 19 13-0273 SF 10" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF	70.79	
02 41 19 13-0274 SF 12" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF	72.61	
02 41 19 13-0275 Reinforced Concrete Wall Cutouts (02 41 19 13-0262)		
02 41 19 13-0276 SF 4" Thick Reinforced Concrete Wall Cutouts, <24 SF	61.43	
02 41 19 13-0277 SF 6" Thick Reinforced Concrete Wall Cutouts, <24 SF	65.16	
02 41 19 13-0278 SF 8" Thick Reinforced Concrete Wall Cutouts, <24 SF	68.88	
02 41 19 13-0279 SF 10" Thick Reinforced Concrete Wall Cutouts, <24 SF	72.61	
02 41 19 13-0280 SF 12" Thick Reinforced Concrete Wall Cutouts, <24 SF	74.47	
02 41 19 13-0281 Brick Wall Cutouts (02 41 19 13-0262)		
Note: Excludes toothing.		
02 41 19 13-0282 SF 4" Thick Brick Wall Cutouts, <24 SF	18.61	
02 41 19 13-0283 SF 6" Thick Brick Wall Cutouts, <24 SF	30.72	
02 41 19 13-0284 SF 8" Thick Brick Wall Cutouts, <24 SF	42.78	
02 41 19 13-0285 SF 10" Thick Brick Wall Cutouts, <24 SF	52.12	
02 41 19 13-0286 SF 12" Thick Brick Wall Cutouts, <24 SF	62.37	
02 41 19 13-0287 SF 16" Thick Brick Wall Cutouts, <24 SF	73.53	
02 41 19 13-0288 Concrete Block Wall Cutouts (02 41 19 13-0262)		
Note: Excludes toothing.		
02 41 19 13-0289 SF 4" Thick Concrete Block Wall Cutouts, <24 SF	30.80	
02 41 19 13-0290 SF 6" Thick Concrete Block Wall Cutouts, <24 SF	32.62	
02 41 19 13-0291 SF 8" Thick Concrete Block Wall Cutouts, <24 SF	34.44	
02 41 19 13-0292 SF 10" Thick Concrete Block Wall Cutouts, <24 SF	36.30	
02 41 19 13-0293 SF 12" Thick Concrete Block Wall Cutouts, <24 SF	37.24	



Existing Conditions		02
Demolition and Structure Moving		02 40
Demolition		02 41

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0294 SF 16" Thick Concrete Block Wall Cutouts, <24 SF	39.10	
02 41 19 13-0295 Limestone Cutouts (02 41 19 13-0262)		
02 41 19 13-0296 SF 2" Thick Limestone Cutouts, <24 SF	52.12	
02 41 19 13-0297 SF 4" Thick Limestone Cutouts, <24 SF	63.30	
02 41 19 13-0298 SF 6" Thick Limestone Cutouts, <24 SF	67.02	
02 41 19 13-0299 SF 8" Thick Limestone Cutouts, <24 SF	70.75	
02 41 19 13-0300 SF 10" Thick Limestone Cutouts, <24 SF	74.47	
02 41 19 13-0301 SF 12" Thick Limestone Cutouts, <24 SF	78.19	
02 41 19 13-0302 Toothing Masonry Cutouts (02 41 19 13-0262)		
Note: For use where existing masonry must be removed in a toothing pattern along horizontal and vertical mortar joints. VLF measurement includes all horizontal cutting.		
02 41 19 13-0303 VLF Brick, Soft Old Mortar, Toothing Masonry Cutouts.....	18.61	
02 41 19 13-0304 VLF Brick, Hard Mortar, Toothing Masonry Cutouts.....	25.14	
02 41 19 13-0305 VLF Concrete Block, Soft Old Mortar, Toothing Masonry Cutouts	11.17	
02 41 19 13-0306 VLF Concrete Block, Hard Mortar, Toothing Masonry Cutouts	14.90	
02 41 19 13-0307 Minimum Charge For Cutouts (02 41 19 13-0262)		
Note: For projects where the total cutouts charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0308 EA Cutouts Minimum Charge	372.34	
02 41 19 13-0309 Elevated Concrete Removal (02 41 19 13)		
02 41 19 13-0310 CF Elevated Concrete Beam/Slab/Steps Removal, Reinforced	12.47	
02 41 19 16 Selective Interior Demolition (02 41 19)		
Note: Includes break-up of material, loading into truck or dumpster and clean-up.		
02 41 19 16-0001 Fireproofing Removal (02 41 19 16)		
02 41 19 16-0002 SF Removal Of Fireproofing From Concrete Or Steel.....	1.22	
02 41 19 16-0003 Demolish Ceiling (02 41 19 16)		
02 41 19 16-0004 SF Demolish Drywall Ceiling	0.94	
02 41 19 16-0005 SF Demolish Furred Plastered Ceiling	2.19	
02 41 19 16-0006 SF Demolish Suspended Plastered Ceiling And Suspension System.....	1.68	
02 41 19 16-0007 Demolish Concrete Stair (02 41 19 16)		
02 41 19 16-0008 CF Demolish Interior Reinforced Concrete Stairs.....	7.90	
02 41 19 16-0009 CF Demolish Exterior Reinforced Concrete Stairs	6.67	
02 50 Site Remediation (02)		
02 58 Snow Control (02 50)		
02 58 13 Snow Fencing (02 58)		
02 58 13 00-0001 Snow/Sand Fence On Steel Posts (02 58 13)		
02 58 13 00-0002 LF Steel Fence Post, 10' On Center With 4' Wood Snow/Sand Fence.....	7.26	1.96
02 60 Contaminated Site Material Removal (02)		
02 61 Removal and Disposal of Contaminated Soils (02 60)		
02 61 26 Removal and Disposal of Asbestos Contaminated Soils (02 61)		
Note: Includes materials, equipment, mobilization, preparation, signage, removal, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of CF for a quantity of less than 10 CF, followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project.		
02 61 26 00-0001 Removal and Disposal of Asbestos Contaminated Soils (02 61 26)		
Note: Includes materials, equipment, mobilization, preparation, signage, removal, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of CF for a quantity of less than 10 CF, followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project.		

02 Existing Conditions**02 60 Contaminated Site Material Removal****02 61 Removal and Disposal of Contaminated Soils**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 61 26 00-0002 EA Up To 10 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	915.51 274.65	
02 61 26 00-0003 CF >10 To 100 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	60.68 18.20	
02 61 26 00-0004 CF >100 To 250 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	40.46 12.14	
02 61 26 00-0005 CF >250 To 500 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	30.39 9.12	
02 61 26 00-0006 CF >500 To 2,500 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	24.28 7.28	
02 61 26 00-0007 CF >2,500 To 10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	20.63 6.19	
02 61 26 00-0008 CF >10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal <i>For Work In Restricted Working Space, Add</i>	18.56 5.57	

02 80 Facility Remediation ⁽⁰²⁾**02 81 Transportation and Disposal of Hazardous Materials** ^(02 80)

02 81 00 00-0001	Equipment Oil Drain And Disposal ^(02 81)	
02 81 00 00-0002	TRIP Drain Oil Filled Equipment, Place In Approved Container And Transport To Disposal Site Note: Excludes Disposal Cost.	630.18
02 81 00 00-0003	DRM Disposal Of Non-Polychlorinated Biphenyl (PCB) Oil In Normal Landfill, Per Partial Or Full 55-Gallon Drum Note: Excludes draining, placing in approved container, and transporting to disposal site.	99.03
02 81 00 00-0004	DRM Disposal Of Non-Toxic Polychlorinated Biphenyl (PCB) Oil Into A Lined Landfill, Per Partial Or Full 55-Gallon Drum Note: Excludes draining, placing in approved container, and transporting to disposal site.	450.12
02 81 00 00-0005	DRM Disposal Of Toxic Polychlorinated Biphenyl (PCB) Oil By Incineration, Per Partial Or Full 55-Gallon Drum Note: Excludes draining, placing in approved container, and transporting to disposal site.	810.22
02 81 00 00-0006	CF Hazardous Polychlorinated Biphenyl (PCB) Oil Filled Equipment Disposal At Approved Site Note: Includes handling of equipment and disposal at approved site. Excludes draining of PCB contaminated oil prior to disposal.	108.58

02 82 Asbestos Remediation ^(02 80)

See CSI section 01 56 16 00-0001 for temporary stud walls, 01 74 19 00-0029 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0003 for plastic sheeting for containment construction, 02 89 00 00-0010 for decontamination chambers.

02 82 13 Asbestos Abatement ^(02 82)

02 82 13 00-0001	Air Monitoring And Bulk Sampling, Asbestos Testing ^(02 82 13)	
	Note: Includes packaging of sample for shipping, shipping to testing lab, chain of custody documentation, analysis of sample, lab report, and sample disposal. Polarizing Light Microscope (PLM), Phase Contrast Microscope (PCM), and Transmission Electron Microscope (TEM). Excludes sampling time.	
02 82 13 00-0002	HR Certified Asbestos Air Sampling Technician For Bulk Sampling Or Air Monitoring	73.12
02 82 13 00-0003	EA 48 Hours Or Longer Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	58.90
02 82 13 00-0004	EA Next Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	69.06
02 82 13 00-0005	EA Same Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing	109.68
02 82 13 00-0006	EA 48 Hours Or Longer Turnaround, (Bulk) TEM Test, Asbestos Testing	188.90
02 82 13 00-0007	EA Next Day Turnaround, (Bulk) TEM Test, Asbestos Testing	229.53
02 82 13 00-0008	EA 48 Hours Or Longer Turnaround, (Air) PCM Test, Asbestos Testing	46.72
02 82 13 00-0009	EA Next Day Turnaround, (Air) PCM Test, Asbestos Testing	56.87
02 82 13 00-0010	EA Same Day Turnaround, (Air) PCM Test, Asbestos Testing	77.19
02 82 13 00-0011	EA 48 Hours Or Longer Turnaround, (Air Point Counting) PLM Test	58.90
02 82 13 00-0012	EA Next Day Turnaround, (Air Point Counting) PLM Test	69.06
02 82 13 00-0013	EA Same Day Turnaround, (Air Point Counting) PLM Test	109.68
02 82 13 00-0014	EA 48 Hours Or Longer Turnaround, (Air) TEM Test, Asbestos Testing	188.90
02 82 13 00-0015	EA Next Day Turnaround, (Air) TEM Test, Asbestos Testing	217.34
02 82 13 00-0016	EA Same Day Turnaround, (Air) TEM Test, Asbestos Testing	302.65

02 82 16 Engineering Control of Asbestos Containing Materials ^(02 82)

02 82 16 00-0001	Asbestos Encapsulation (Lock-Down) ^(02 82 16)	
02 82 16 00-0002	SF Asbestos Encapsulant Spray Adhesive (Lock-Down), Per Coat	1.56
02 82 16 00-0003	SF Asbestos Binding Compound Encapsulant/Sealant, Per Coat Required (Fiberlock® ABC® Asbestos Binding Compound)	2.14
02 82 16 00-0004	SF Asbestos Fiberspray Encapsulation (Fiberlock® ABC Fiberspray®)	2.33
02 82 16 00-0005	SF Asbestos Acrylic Encasement/Encapsulation (Fiberlock® Lag-Kote®)	2.52
02 82 16 00-0006	SF Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kwik®)	7.90
02 82 16 00-0007	SF Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kloth®)	8.97

02 82 33 Removal and Disposal of Asbestos Containing Materials ^(02 82)

Note: Includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, lockdown encapsulant applied to surfaces, bagging, clean-up, vacuuming, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of SET for a quantity of less than 10 LF or SF (10 LF to 20 LF for ACM pipe insulation), followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate



Existing Conditions		02
Facility Remediation		02 80
Asbestos Remediation		02 82

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
quantity for the project. This does not apply to glove bag projects.		
02 82 33 00-0001 Pipe And Pipe Fittings Insulation, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0002 Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0001) Note: Diameter is outer size of insulation. Treat fittings as additional linear feet of insulation.		
02 82 33 00-0003 Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002) See CSI section 02 82 33 00-0031 for projects with less than 10 LF.		
02 82 33 00-0004 SET Up To 20 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal For Work In Restricted Working Space, Add	958.20 274.65	
02 82 33 00-0005 LF >20 To 250 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal For Work In Restricted Working Space, Add	33.34 9.36	
02 82 33 00-0006 LF >250 To 500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal For Work In Restricted Working Space, Add	25.54 7.02	
02 82 33 00-0007 LF >500 To 2,500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal For Work In Restricted Working Space, Add	19.69 5.27	
02 82 33 00-0008 LF >2,500 To 10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal For Work In Restricted Working Space, Add	15.29 3.95	
02 82 33 00-0009 LF >10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal For Work In Restricted Working Space, Add	13.58 3.44	
02 82 33 00-0010 >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002) See CSI section 02 82 33 00-0031 for projects with less than 10 LF.		
02 82 33 00-0011 SET Up To 20 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal For Work In Restricted Working Space, Add	1,000.89 274.65	
02 82 33 00-0012 LF >20 To 250 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal For Work In Restricted Working Space, Add	40.16 10.77	
02 82 33 00-0013 LF >250 To 500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal For Work In Restricted Working Space, Add	31.19 8.08	
02 82 33 00-0014 LF >500 To 2,500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal For Work In Restricted Working Space, Add	24.46 6.06	
02 82 33 00-0015 LF >2,500 To 10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal For Work In Restricted Working Space, Add	19.41 4.54	
02 82 33 00-0016 LF >10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal For Work In Restricted Working Space, Add	17.43 3.95	
02 82 33 00-0017 >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002) See CSI section 02 82 33 00-0031 for projects with less than 10 LF.		
02 82 33 00-0018 SET Up To 20 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal For Work In Restricted Working Space, Add	1,043.58 274.65	
02 82 33 00-0019 LF >20 To 250 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal For Work In Restricted Working Space, Add	53.55 14.36	
02 82 33 00-0020 LF >250 To 500 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal For Work In Restricted Working Space, Add	41.58 10.77	
02 82 33 00-0021 LF >500 To 2,500 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal For Work In Restricted Working Space, Add	32.61 8.08	
02 82 33 00-0022 LF >2,500 To 10,000 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal For Work In Restricted Working Space, Add	25.87 6.05	
02 82 33 00-0023 LF >10,000 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal For Work In Restricted Working Space, Add	23.25 5.27	
02 82 33 00-0024 >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002) See CSI section 02 82 33 00-0031 for projects with less than 10 LF.		
02 82 33 00-0025 SET Up To 20 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal For Work In Restricted Working Space, Add	1,086.27 274.65	
02 82 33 00-0026 LF >20 To 250 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal For Work In Restricted Working Space, Add	73.64 19.74	
02 82 33 00-0027 LF >250 To 500 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal For Work In Restricted Working Space, Add	57.17 14.80	
02 82 33 00-0028 LF >500 To 2,500 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal For Work In Restricted Working Space, Add	44.84 11.10	
02 82 33 00-0029 LF >2,500 To 10,000 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal For Work In Restricted Working Space, Add	35.58 8.33	
02 82 33 00-0030 LF >10,000 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal For Work In Restricted Working Space, Add	31.97 7.24	
02 82 33 00-0031 Glove Bag Method, Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002) Note: Solid isolation barriers and plastic sheeting for containment construction (except on floor) are not required for glove bag projects unless required by local codes.		
02 82 33 00-0032 SET Glove Bag For First 3 LF Pipe Insulation, Asbestos Abatement And Disposal For Work In Restricted Working Space, Add	597.74 175.48	
02 82 33 00-0033 LF >3 To 20 LF Additional Glove Bag Work for Pipe Insulation For Work In Restricted Working Space, Add	101.76 29.25	
02 82 33 00-0034 LF >20 To 250 LF Additional Glove Bag Work for Pipe Insulation For Work In Restricted Working Space, Add	42.11 11.35	
02 82 33 00-0035 LF >250 To 500 LF Additional Glove Bag Work for Pipe Insulation For Work In Restricted Working Space, Add	32.65 8.51	

02 Existing Conditions**02 80 Facility Remediation****02 82 Asbestos Remediation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0036 LF >500 LF Additional Glove Bag Work for Pipe Insulation <i>For Work In Restricted Working Space, Add</i>	25.55 6.38	
02 82 33 00-0037 Thermal Insulation, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0038 Calcium Block Insulation, Asbestos Abatement And Disposal (02 82 33 00-0037)		
02 82 33 00-0039 SET Up To 10 SF, Calcium Block Insulation, Asbestos Abatement And Disposal.....	936.85	
02 82 33 00-0040 SF >10 To 500 SF, Calcium Block Insulation, Asbestos Abatement And Disposal.....	39.43	
02 82 33 00-0041 SF >500 To 2,500 SF, Calcium Block Insulation, Asbestos Abatement And Disposal.....	32.81	
02 82 33 00-0042 SF >2,500 To 10,000 SF, Calcium Block Insulation, Asbestos Abatement And Disposal.....	26.65	
02 82 33 00-0043 SF >10,000 SF, Calcium Block Insulation, Asbestos Abatement And Disposal.....	22.04	
02 82 33 00-0044 Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal (02 82 33 00-0037)		
02 82 33 00-0045 SET Up To 10 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	926.18	
02 82 33 00-0046 SF >10 To 500 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	34.12	
02 82 33 00-0047 SF >500 To 2,500 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	27.49	
02 82 33 00-0048 SF >2,500 To 10,000 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	21.33	
02 82 33 00-0049 SF >10,000 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	16.72	
02 82 33 00-0050 Fibrous Glass Board Insulation, Asbestos Abatement And Disposal (02 82 33 00-0037)		
02 82 33 00-0051 SET Up To 10 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal.....	922.63	
02 82 33 00-0052 SF >10 To 500 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal.....	30.09	
02 82 33 00-0053 SF >500 To 2,500 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal.....	23.46	
02 82 33 00-0054 SF >2,500 To 10,000 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal.....	17.31	
02 82 33 00-0055 SF >10,000 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal.....	12.70	
02 82 33 00-0056 Other Thermal Insulation, Up To 3" Thickness, Asbestos Abatement And Disposal (02 82 33 00-0037)		
Note: e.g., duct, boiler, tank, etc.		
02 82 33 00-0057 SET Up To 25 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	942.19	
02 82 33 00-0058 SF >25 To 500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	32.28	
02 82 33 00-0059 SF >500 To 2,500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	25.65	
02 82 33 00-0060 SF >2,500 To 10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	19.50	
02 82 33 00-0061 SF >10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	14.90	
02 82 33 00-0062 Surfacing Material, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0063 Fireproofing For Small Areas, Asbestos Abatement And Disposal (02 82 33 00-0062)		
Note: For asbestos abatement for up to 1 SF sections to expose area for attachments. See CSI section 02 82 33 00-0065 for areas > 1 SF see CSI section.		
02 82 33 00-0064 EA Up To 1 SF, Fireproofing For Small Areas, Asbestos Abatement And Disposal.....	153.65	
Note: For asbestos abatement for up to 1 SF sections to expose steel area for welding attachments.		
02 82 33 00-0065 Fireproofing, Asbestos Abatement And Disposal (02 82 33 00-0062)		
Note: Exposed surface area, includes associated overspray.		
02 82 33 00-0066 SET Up To 25 SF, Fireproofing, Asbestos Abatement And Disposal.....	942.19	
02 82 33 00-0067 SF >25 To 500 SF, Fireproofing, Asbestos Abatement And Disposal.....	38.51	
02 82 33 00-0068 SF >500 To 2,500 SF, Fireproofing, Asbestos Abatement And Disposal.....	29.14	
02 82 33 00-0069 SF >2,500 To 10,000 SF, Fireproofing, Asbestos Abatement And Disposal.....	22.13	
02 82 33 00-0070 SF >10,000 SF, Fireproofing, Asbestos Abatement And Disposal.....	16.86	
02 82 33 00-0071 Acoustical Plaster, Asbestos Abatement And Disposal (02 82 33 00-0062)		
Note: Remove surface coat from brown coat or remove entire assembly, including lathe and finish materials.		
02 82 33 00-0072 SET Up To 25 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	933.30	
02 82 33 00-0073 SF >25 To 500 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	16.35	
02 82 33 00-0074 SF >500 To 2,500 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	12.53	
02 82 33 00-0075 SF >2,500 To 10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	9.48	
02 82 33 00-0076 SF >10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	7.20	
02 82 33 00-0077 Gypsum Wall Board, Asbestos Abatement And Disposal (02 82 33 00-0062)		
02 82 33 00-0078 SET Up To 50 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal.....	951.09	
<i>For Additional Layer, Add</i>		251.77
02 82 33 00-0079 SF >50 To 500 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal.....	12.73	
<i>For Additional Layer, Add</i>		3.31
02 82 33 00-0080 SF >500 To 2,500 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal.....	9.48	
<i>For Additional Layer, Add</i>		2.41
02 82 33 00-0081 SF >2,500 To 10,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal.....	7.58	
<i>For Additional Layer, Add</i>		1.89
02 82 33 00-0082 SF >10,000 To 50,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal.....	6.05	
<i>For Additional Layer, Add</i>		1.47
02 82 33 00-0083 SF >50,000 To 100,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal.....	4.91	
<i>For Additional Layer, Add</i>		1.16



Existing Conditions			02
Facility Remediation			02 80
Asbestos Remediation			02 82

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0084 SF >100,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal For Additional Layer, Add	4.07 0.92	
02 82 33 00-0085 Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal (02 82 33 00-0062)		
02 82 33 00-0086 SET Up To 25 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal.....	933.30	
02 82 33 00-0087 SF >25 To 500 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal.....	23.53	
02 82 33 00-0088 SF >500 To 2,500 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	17.42	
02 82 33 00-0089 SF >2,500 To 10,000 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	13.75	
02 82 33 00-0090 SF >10,000 To 50,000 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal	10.85	
02 82 33 00-0091 SF >50,000 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal.....	7.96	
02 82 33 00-0092 Stucco, Asbestos Abatement And Disposal (02 82 33 00-0062)		
02 82 33 00-0093 SET Up To 50 SF, Stucco, Asbestos Abatement And Disposal	951.09	
02 82 33 00-0094 SF >50 To 500 SF, Stucco, Asbestos Abatement And Disposal	20.61	
02 82 33 00-0095 SF >500 To 2,500 SF, Stucco, Asbestos Abatement And Disposal	15.62	
02 82 33 00-0096 SF >2,500 To 10,000 SF, Stucco, Asbestos Abatement And Disposal	11.91	
02 82 33 00-0097 SF >10,000 SF, Stucco, Asbestos Abatement And Disposal	9.10	
02 82 33 00-0098 Spray On Acoustical Ceiling, Asbestos Abatement And Disposal (02 82 33 00-0062)		
02 82 33 00-0099 SET Up To 50 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal	951.09	
02 82 33 00-0100 SF >50 To 500 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal.....	10.89	
02 82 33 00-0101 SF >500 To 2,500 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal.....	9.05	
02 82 33 00-0102 SF >2,500 To 10,000 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal.....	6.44	
02 82 33 00-0103 SF >10,000 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal.....	5.00	
02 82 33 00-0104 Plywood, Asbestos Abatement And Disposal (02 82 33 00-0062)		
02 82 33 00-0105 SET Up To 40 SF, Plywood, Asbestos Abatement And Disposal	943.98	
02 82 33 00-0106 SF >50 To 500 SF, Plywood, Asbestos Abatement And Disposal	13.68	
02 82 33 00-0107 SF >500 To 2,500 SF, Plywood, Asbestos Abatement And Disposal	6.95	
02 82 33 00-0108 SF >2,500 To 10,000 SF, Plywood, Asbestos Abatement And Disposal	4.92	
02 82 33 00-0109 SF >10,000 SF, Plywood, Asbestos Abatement And Disposal.....	4.30	
02 82 33 00-0110 Flooring Material, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0111 Floor Tile, Linoleum, Carpet Or Base, Asbestos Abatement And Disposal (02 82 33 00-0110)		
02 82 33 00-0112 Floor Tile, Asbestos Abatement And Disposal (02 82 33 00-0111) Note: Single layer or first of multiple layers. Excludes mastic.		
02 82 33 00-0113 SET Up To 100 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal	922.63	
For Each Additional Layer, Add	138.39	
02 82 33 00-0114 SF >100 To 500 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal.....	6.95	
For Each Additional Layer, Add	1.04	
02 82 33 00-0115 SF >500 To 2,500 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal.....	5.78	
For Each Additional Layer, Add	0.87	
02 82 33 00-0116 SF >2,500 To 10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal.....	4.71	
For Each Additional Layer, Add	0.71	
02 82 33 00-0117 SF >10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal.....	3.42	
For Each Additional Layer, Add	0.51	
02 82 33 00-0118 Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal (02 82 33 00-0111) Note: Single layer or first of multiple layers. Excludes mastic.		
02 82 33 00-0119 SET Up To 100 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal	922.63	
For Each Additional Layer, Add	138.39	
02 82 33 00-0120 SF >100 To 500 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal.....	6.95	
For Each Additional Layer, Add	1.04	
02 82 33 00-0121 SF >500 To 2,500 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal.....	5.80	
For Each Additional Layer, Add	0.87	
02 82 33 00-0122 SF >2,500 To 10,000 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal.....	5.31	
For Each Additional Layer, Add	0.80	
02 82 33 00-0123 SF >10,000 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal.....	4.40	
For Each Additional Layer, Add	0.66	
02 82 33 00-0124 Carpet, Asbestos Abatement And Disposal (02 82 33 00-0111)		
02 82 33 00-0125 SET Up To 100 SF, Non-Friable Carpet, Asbestos Abatement And Disposal	922.63	
02 82 33 00-0126 SF >100 To 500 SF, Non-Friable Carpet, Asbestos Abatement And Disposal.....	5.51	
02 82 33 00-0127 SF >500 To 2,500 SF, Non-Friable Carpet, Asbestos Abatement And Disposal.....	4.56	

02 Existing Conditions**02 80 Facility Remediation****02 82 Asbestos Remediation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0128	SF	>2,500 To 10,000 SF, Non-Friable Carpet, Asbestos Abatement And Disposal.....	3.46	
02 82 33 00-0129	SF	>10,000 SF, Non-Friable Carpet, Asbestos Abatement And Disposal.....	2.76	
02 82 33 00-0130		Wall Or Cove Base, Asbestos Abatement And Disposal (02 82 33 00-0111) Note: Up to 12".		
02 82 33 00-0131	SET	Up To 25 LF, Wall Base And Mastic, Asbestos Abatement And Disposal	314.06	
02 82 33 00-0132	LF	>25 To 100 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	4.43	
02 82 33 00-0133	LF	>100 To 500 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	2.80	
02 82 33 00-0134	LF	>500 To 2,500 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	1.89	
02 82 33 00-0135	LF	>2,500 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	1.43	
02 82 33 00-0136		Mastic, Asbestos Abatement And Disposal (02 82 33 00-0110) Note: Applies to single layer or bottom layer only of multiple layers. Non hydrocarbon with pine, citrus or no odor.		
02 82 33 00-0137	SET	Up To 100 SF, Mastic, Asbestos Abatement And Disposal	933.31	
02 82 33 00-0138	SF	>100 To 500 SF, Mastic, Asbestos Abatement And Disposal..... Note: Applies to bottom layer only if multiple layers.	2.46	
02 82 33 00-0139	SF	>500 To 2,500 SF, Mastic, Asbestos Abatement And Disposal..... Note: Applies to bottom layer only if multiple layers.	1.85	
02 82 33 00-0140	SF	>2,500 To 10,000 SF, Mastic, Asbestos Abatement And Disposal..... Note: Applies to bottom layer only if multiple layers.	1.47	
02 82 33 00-0141	SF	>10,000 SF, Mastic, Asbestos Abatement And Disposal..... Note: Applies to bottom layer only if multiple layers.	1.21	
02 82 33 00-0142		Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal (02 82 33 00-0110) Note: Includes finish wood, asbestos barrier paper, cleanup of sub-wood floor, fasteners, wood fillers and protection of clean crawl space from contamination.		
02 82 33 00-0143	SET	Up To 100 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	986.67	
02 82 33 00-0144	SF	>100 To 500 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	7.92	
02 82 33 00-0145	SF	>500 To 2,500 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	5.98	
02 82 33 00-0146	SF	>2,500 To 10,000 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal	4.83	
02 82 33 00-0147	SF	>10,000 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	3.92	
02 82 33 00-0148		Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal (02 82 33 00-0110)		
02 82 33 00-0149	SET	Up To 100 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal	951.07	
02 82 33 00-0150	SF	>100 To 500 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....	8.52	
02 82 33 00-0151	SF	>500 To 2,500 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal..... Note: Includes detachment of mounted objects before removal.	5.70	
02 82 33 00-0152	SF	>2,500 To 10,000 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....	4.56	
02 82 33 00-0153	SF	>10,000 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....	3.80	
02 82 33 00-0154		Roofing, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0155		Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0154) Note: Includes roofing, flashing, sheet metal, insulation, pitch pockets, board etc.		
02 82 33 00-0156		Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0155)		
02 82 33 00-0157	SET	Up To 125 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	1,004.46	
02 82 33 00-0158	SF	>125 To 1,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	6.57	
02 82 33 00-0159	SF	>1,000 To 5,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	5.40	
02 82 33 00-0160	SF	>5,000 To 10,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	4.45	
02 82 33 00-0161	SF	>10,000 To 20,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	3.51	
02 82 33 00-0162	SF	>20,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	2.82	
02 82 33 00-0163		>2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0155)		
02 82 33 00-0164	SET	Up To 110 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	1,072.04	
02 82 33 00-0165	SF	>110 To 1,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	8.08	
02 82 33 00-0166	SF	>1,000 To 5,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	6.73	
02 82 33 00-0167	SF	>5,000 To 10,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	5.70	



Existing Conditions		02
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0168	SF	>10,000 To 20,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	4.63	
02 82 33 00-0169	SF	>20,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	3.82	
02 82 33 00-0170		>5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0155)		
02 82 33 00-0171	SET	Up To 110 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	1,150.30	
02 82 33 00-0172	SF	>110 To 1,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	9.54	
02 82 33 00-0173	SF	>1,000 To 5,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	8.03	
02 82 33 00-0174	SF	>5,000 To 10,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal	6.89	
02 82 33 00-0175	SF	>10,000 To 20,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	5.70	
02 82 33 00-0176	SF	>20,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	4.79	
02 82 33 00-0177		Shingles And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0154)		
02 82 33 00-0178		Shingles And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0177)		
02 82 33 00-0179	SET	Up To 125 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal	937.74	
		Note: Single or first of multiple layers.		
02 82 33 00-0180	SF	>125 To 1,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	6.04	
		Note: Single or first of multiple layers.		
		For Each Additional Layer, Add	1.21	
02 82 33 00-0181	SF	>1,000 To 5,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	4.87	
		Note: Single or first of multiple layers.		
		For Each Additional Layer, Add	0.97	
02 82 33 00-0182	SF	>5,000 To 10,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	3.92	
		Note: Single or first of multiple layers.		
		For Each Additional Layer, Add	0.78	
02 82 33 00-0183	SF	>10,000 To 20,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	2.98	
		Note: Single or first of multiple layers.		
		For Each Additional Layer, Add	0.60	
02 82 33 00-0184	SF	>20,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	2.29	
		Note: Single or first of multiple layers.		
		For Each Additional Layer, Add	0.46	
02 82 33 00-0185		Roof Penetration Mastic, Asbestos Abatement And Disposal (02 82 33 00-0154)		
02 82 33 00-0186	SET	Up To 10 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal	306.95	
02 82 33 00-0187	SF	>10 To 50 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal	2.47	
02 82 33 00-0188	SF	>50 To 100 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	2.06	
02 82 33 00-0189	SF	>100 To 250 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	1.69	
02 82 33 00-0190	SF	>250 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	1.28	
02 82 33 00-0191		Roof Curb Mastic, Asbestos Abatement And Disposal (02 82 33 00-0154)		
02 82 33 00-0192	SET	Up To 10 LF, Roof Curb Mastic, Asbestos Abatement And Disposal	306.95	
02 82 33 00-0193	LF	>10 To 20 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	7.05	
02 82 33 00-0194	LF	>20 To 50 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	5.68	
02 82 33 00-0195	LF	>50 To 150 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	4.76	
02 82 33 00-0196	LF	>150 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	3.47	
02 82 33 00-0197		Asbestos-Cement Products, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0198		Interior Asbestos-Cement Board, Asbestos Abatement And Disposal (02 82 33 00-0197)		
		Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0199	SET	Up To 100 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal	951.07	
		Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0200	SF	>100 To 500 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	6.60	
		Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0201	SF	>500 To 2,500 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	3.48	
		Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0202	SF	>2,500 To 10,000 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal	2.86	
		Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0203	SF	>10,000 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	2.53	
		Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0204		Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal (02 82 33 00-0197)		
02 82 33 00-0205	SET	Up To 100 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal	951.07	
02 82 33 00-0206	SF	>100 To 500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	5.78	
02 82 33 00-0207	SF	>500 To 2,500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	3.13	
02 82 33 00-0208	SF	>2,500 To 10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	2.58	
02 82 33 00-0209	SF	>10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	2.29	
02 82 33 00-0210		Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal (02 82 33 00-0197)		

02 Existing Conditions**02 80 Facility Remediation****02 82 Asbestos Remediation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0211	SET		Up To 10 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	805.61	
02 82 33 00-0212	LF		>10 To 100 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	35.48	
02 82 33 00-0213	LF		>100 To 250 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	27.68	
02 82 33 00-0214	LF		>250 To 500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	21.83	
02 82 33 00-0215	LF		>500 To 2,500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	17.43	
02 82 33 00-0216	LF		>2,500 To 10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	14.14	
02 82 33 00-0217	LF		>10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal	13.91	
02 82 33 00-0218			Exterior Transite Siding, Asbestos Abatement And Disposal (02 82 33 00-0197)		
02 82 33 00-0219	SET		Up To 125 SF, Exterior Transite Siding, Asbestos Abatement And Disposal	975.81	
			Note: Single or first of multiple layers.		
02 82 33 00-0220	SF		>125 To 1,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal	5.24	
			Note: Single or first of multiple layers.		
02 82 33 00-0221	SF		>1,000 To 5,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal	4.26	
			Note: Single or first of multiple layers.		
02 82 33 00-0222	SF		>5,000 To 10,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal	3.48	
			Note: Single or first of multiple layers.		
02 82 33 00-0223	SF		>10,000 To 20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal	2.70	
			Note: Single or first of multiple layers.		
02 82 33 00-0224	SF		>20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal	2.12	
			Note: Single or first of multiple layers.		
02 82 33 00-0225			Asbestos Contaminated Debris, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0226			Asbestos Contaminated Debris, Asbestos Abatement And Disposal (02 82 33 00-0225)		
02 82 33 00-0227	SET		Up To 10 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	653.02	
			For Work In Restricted Working Space, Add	183.10	
02 82 33 00-0228	CF		>10 To 100 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	64.95	
			For Work In Restricted Working Space, Add	18.20	
02 82 33 00-0229	CF		>100 To 250 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	44.73	
			For Work In Restricted Working Space, Add	12.14	
02 82 33 00-0230	CF		>250 To 500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	34.66	
			For Work In Restricted Working Space, Add	9.12	
02 82 33 00-0231	CF		>500 To 2,500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	28.55	
			For Work In Restricted Working Space, Add	7.28	
02 82 33 00-0232	CF		>2,500 To 10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	24.90	
			For Work In Restricted Working Space, Add	6.19	
02 82 33 00-0233	CF		>10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal	22.83	
			For Work In Restricted Working Space, Add	5.57	
02 82 33 00-0234			Other Asbestos Containing Materials, Asbestos Abatement And Disposal (02 82 33)		
02 82 33 00-0235			30" To 36" Fire Door, Asbestos Abatement And Disposal (02 82 33 00-0234)		
02 82 33 00-0236	SET		Up To 1 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal	324.38	
02 82 33 00-0237	EA		>1 To 20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal	129.07	
02 82 33 00-0238	EA		>20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal	118.09	
02 82 33 00-0239			HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal (02 82 33 00-0234)		
02 82 33 00-0240	SET		Up To 10 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	306.06	
02 82 33 00-0241	LF		>10 To 50 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	6.33	
02 82 33 00-0242	LF		>50 To 100 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	4.77	
02 82 33 00-0243	LF		>100 To 250 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	4.11	
02 82 33 00-0244	LF		>250 To 1,000 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	3.56	
02 82 33 00-0245	LF		>1,000 To 2,500 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	3.06	
02 82 33 00-0246	LF		>2,500 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal	2.65	
02 82 33 00-0247			Grout, Asbestos Abatement And Disposal (02 82 33 00-0234)		
			Note: e.g. flue grout.		
02 82 33 00-0248	SET		Up To 10 LF, Grout, Asbestos Abatement And Disposal	305.76	
02 82 33 00-0249	LF		>10 To 50 LF, Grout, Asbestos Abatement And Disposal	12.08	
02 82 33 00-0250	LF		>50 To 100 LF, Grout, Asbestos Abatement And Disposal	8.33	
02 82 33 00-0251	LF		>100 To 250 LF, Grout, Asbestos Abatement And Disposal	7.15	
02 82 33 00-0252	LF		>250 To 1,000 LF, Grout, Asbestos Abatement And Disposal	6.15	
02 82 33 00-0253	LF		>1,000 To 2,500 LF, Grout, Asbestos Abatement And Disposal	5.31	
02 82 33 00-0254	LF		>2,500 LF, Grout, Asbestos Abatement And Disposal	4.55	
02 82 33 00-0255			Gaskets, Asbestos Abatement And Disposal (02 82 33 00-0234)		
			Note: e.g. rope, web cloth, flat.		
02 82 33 00-0256	SET		Up To 10 LF, Gaskets, Asbestos Abatement And Disposal	306.06	
02 82 33 00-0257	LF		>10 To 50 LF, Gaskets, Asbestos Abatement And Disposal	16.27	
02 82 33 00-0258	LF		>50 To 250 LF, Gaskets, Asbestos Abatement And Disposal	12.23	
02 82 33 00-0259	LF		>250 To 500 LF, Gaskets, Asbestos Abatement And Disposal	10.43	
02 82 33 00-0260	LF		>500 To 1,500 LF, Gaskets, Asbestos Abatement And Disposal	9.39	
02 82 33 00-0261	LF		>1,500 To 2,500 LF, Gaskets, Asbestos Abatement And Disposal	8.45	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0262 LF >2,500 LF, Gaskets, Asbestos Abatement And Disposal	8.05	
02 82 33 00-0263 Ceiling Tile Including Glue Removal, Asbestos Abatement And Disposal (02 82 33 00-0234) Note: e.g. grid, spline, or glued on.		
02 82 33 00-0264 SET Up To 50 SF, Ceiling Tile, Asbestos Abatement And Disposal..... Note: Including Glue Removal	628.11	
02 82 33 00-0265 SF >50 To 1,000 SF, Ceiling Tile, Asbestos Abatement And Disposal	13.33	
Note: Including Glue Removal		
02 82 33 00-0266 SF >1,000 To 2,500 SF, Ceiling Tile, Asbestos Abatement And Disposal	6.60	
Note: Including Glue Removal		
02 82 33 00-0267 SF >2,500 To 10,000 SF, Ceiling Tile, Asbestos Abatement And Disposal	4.57	
Note: Including Glue Removal		
02 82 33 00-0268 SF >10,000 SF, Ceiling Tile, Asbestos Abatement And Disposal	3.95	
Note: Including Glue Removal		
02 82 33 00-0269 Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal (02 82 33 00-0234) Note: Includes ceiling tile, asbestos barrier paper, and furring strips.		
02 82 33 00-0270 SET Up To 50 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	619.93	
02 82 33 00-0271 SF >50 To 1,000 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	13.33	
02 82 33 00-0272 SF >1,000 To 2,500 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal	6.60	
02 82 33 00-0273 SF >2,500 To 10,000 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal	4.57	
02 82 33 00-0274 SF >10,000 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	3.95	
02 82 33 00-0275 Caulking, Asbestos Abatement And Disposal (02 82 33 00-0234)		
02 82 33 00-0276 Non Friable Caulking, Asbestos Abatement And Disposal (02 82 33 00-0275)		
02 82 33 00-0277 SET Up To 10 LF, Non Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal	305.76	
02 82 33 00-0278 LF >10 To 50 LF, Non Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal	9.06	
02 82 33 00-0279 LF >50 To 100 LF, Non Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal	6.41	
02 82 33 00-0280 LF >100 To 250 LF, Non Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal	4.78	
02 82 33 00-0281 LF >250 To 1,000 LF, Non Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal	3.60	
02 82 33 00-0282 LF >1,000 To 2,500 LF, Non Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal	2.86	
02 82 33 00-0283 LF >2,500 LF, Non Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal	2.49	
02 82 33 00-0284 Window Putty, Asbestos Abatement And Disposal (02 82 33 00-0234)		
02 82 33 00-0285 SET Up To 10 LF, Window Putty, Asbestos Abatement And Disposal	305.76	
02 82 33 00-0286 LF >10 To 50 LF, Window Putty, Asbestos Abatement And Disposal	12.08	
02 82 33 00-0287 LF >50 To 100 LF, Window Putty, Asbestos Abatement And Disposal	8.33	
02 82 33 00-0288 LF >100 To 250 LF, Window Putty, Asbestos Abatement And Disposal	7.15	
02 82 33 00-0289 LF >250 To 1,000 LF, Window Putty, Asbestos Abatement And Disposal	6.15	
02 82 33 00-0290 LF >1,000 LF, Window Putty, Asbestos Abatement And Disposal.....	5.31	
02 82 33 00-0291 Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal (02 82 33 00-0234)		
02 82 33 00-0292 SET Up To 4 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal.....	692.29	
02 82 33 00-0293 EA >4 To 40 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	75.11	
02 82 33 00-0294 EA >40 To 60 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	56.91	
02 82 33 00-0295 EA >60 To 125 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	47.84	
02 82 33 00-0296 EA >125 To 625 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	42.34	
02 82 33 00-0297 EA >625 To 1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	39.06	
02 82 33 00-0298 EA >1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal	37.20	
02 83 Lead Remediation (02 80) See CSI section 01 56 16 00-0001 for temporary stud walls, 01 74 19 00-0029 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0003 for plastic sheeting for containment construction, 02 89 00 00-0010 for decontamination chambers.		
02 83 19 Lead-Based Paint Remediation (02 83)		
02 83 19 13 Lead-Based Paint Abatement (02 83 19) Note: Includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, bagging, clean-up, vacuuming, transportation for up to 25 miles, disposal, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete removal and disposal of lead contaminated materials in accordance with EPA and local regulations. Where types of Lead are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. See CSI section 01 56 16 00-0001 for temporary stud walls, 01 74 19 00-0029 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0003 for plastic sheeting.		
02 83 19 13-0001 Lead Sampling And Testing (02 83 19 13) Note: Includes packaging of sample for shipping, shipping to testing lab, chain of custody documentation, analysis of sample, lab report, and sample disposal. Excludes sampling time.		
02 83 19 13-0002 HR Certified Lead Sampling Technician For Bulk Sampling Or Air Monitoring	84.53	

02 Existing Conditions**02 80 Facility Remediation****02 83 Lead Remediation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0003	EA	X-Ray Fluorescence (XRF) Lead Testing Note: Including Technician, 3 Readings Per Surface And Lab Fee	70.02	
02 83 19 13-0004	EA	5 Day Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee	67.03	
02 83 19 13-0005	EA	48 Hour Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee	101.56	
02 83 19 13-0006	EA	24 Hour Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee	142.18	
02 83 19 13-0007	EA	5 Day Turnaround Total Threshold Leaching Concentration (TTLC) Lead Test And Lab Fee	26.41	
02 83 19 13-0008	EA	24 Hour Turnaround Total Threshold Leaching Concentration (TTLC) Lead Test And Lab Fee	40.62	
02 83 19 13-0009	EA	8 Hour Turnaround Total Threshold Leaching Concentration (TTLC) Lead Test And Lab Fee	50.78	
02 83 19 13-0010	EA	5 Day Turnaround Soluble Threshold Limit Concentration (STLC) Lead Test And Lab Fee	67.03	
02 83 19 13-0011	EA	3 Day Turnaround Soluble Threshold Limit Concentration (STLC) Lead Test And Lab Fee	101.56	
02 83 19 13-0012	EA	5 Day Turnaround Lead Wipe Samples And Lab Fee	11.17	
02 83 19 13-0013	EA	24 Hour Turnaround Lead Wipe Samples And Lab Fee	15.23	
02 83 19 13-0014	EA	8 Hour Turnaround Lead Wipe Samples And Lab Fee	22.34	
02 83 19 13-0015	EA	5 Day Turnaround Lead Air Samples And Lab Fee	11.17	
02 83 19 13-0016	EA	24 Hour Turnaround Lead Air Samples And Lab Fee	15.23	
02 83 19 13-0017	EA	8 Hour Turnaround Lead Air Samples And Lab Fee	22.34	
02 83 19 13-0018	EA	5 Day Turnaround Lead Water Test and Lab Fee	40.62	
02 83 19 13-0019	EA	24 Hour Turnaround Lead Water Test and Lab Fee	60.94	
02 83 19 13-0020	EA	8 Hour Turnaround Lead Water Test and Lab Fee	81.25	
02 83 19 13-0021	EA	5 Day Turnaround Lead Paint Chip Test and Lab Fee	42.01	
02 83 19 13-0022	EA	5 Day Turnaround Lead Soil Test and Lab Fee	84.02	
02 83 19 13-0023 Minimum Charge For Lead-Based Paint Remediation (02 83 19 13)				
02 83 19 13-0024	EA	Lead-Based Paint Remediation Minimum Show Up Charge	1,164.10	
Note: For projects where the total lead-based paint remediation charge is less than the minimum charge, use task "Minimum Charge For Lead-Based Paint Remediation" exclusively. Task "Minimum Charge For Lead-Based Paint Remediation" should not be used in conjunction with any other tasks in this section. Includes air sample and personal air monitoring.				
02 83 19 13-0025 Chemical Stripping Of Lead Contaminated Material (02 83 19 13)				
Note: Per 0.02" (20 mils) application. Manufacture recommended operating temperatures not to be below 50 degrees. Includes heat gun (where required) for follow up, waste handling, packing and all personnel blood work, lab test fees and monitoring. Industrial coatings often contain other hazardous ingredients in addition to or in place of lead. These might include, but are not be limited to, chromium, cadmium and mercury.				
02 83 19 13-0026	SF	Balustrades, Chemical Stripping Of Lead Contaminated Material	32.50	
		For 0.025" (25 mil) Application, Add	1.86	
		For 0.03" (30 mil) Application, Add	2.94	
02 83 19 13-0027	SF	Balustrades, Ornate, Chemical Stripping Of Lead Contaminated Material	48.15	
		For 0.025" (25 mil) Application, Add	2.65	
		For 0.03" (30 mil) Application, Add	4.12	
02 83 19 13-0028	LF	Up To 6" Wide, Wood Trim, Chemical Stripping Of Lead Contaminated Material	13.98	
		For 0.025" (25 mil) Application, Add	0.84	
		For 0.03" (30 mil) Application, Add	1.35	
		For 0.125" (125 mil) Application, Add	7.82	
02 83 19 13-0029	LF	>6" To 12" Wide, Wood Trim, Chemical Stripping Of Lead Contaminated Material	28.48	
		For 0.025" (25 mil) Application, Add	1.57	
		For 0.03" (30 mil) Application, Add	2.44	
		For 0.125" (125 mil) Application, Add	11.44	
02 83 19 13-0030	SF	Cornice, Chemical Stripping Of Lead Contaminated Material	15.22	
		For 0.025" (25 mil) Application, Add	1.00	
		For 0.03" (30 mil) Application, Add	1.65	
02 83 19 13-0031	SF	Cornice, Ornate, Chemical Stripping Of Lead Contaminated Material	42.93	
		For 0.025" (25 mil) Application, Add	2.38	
		For 0.03" (30 mil) Application, Add	3.73	
02 83 19 13-0032	SF	Brick, Concrete Block, Concrete, Chemical Stripping Of Lead Contaminated Material	9.41	
		For 0.025" (25 mil) Application, Add	0.66	
		For 0.03" (30 mil) Application, Add	1.11	
		For 0.125" (125 mil) Application, Add	8.11	
02 83 19 13-0033	SF	Cabinets, Chemical Stripping Of Lead Contaminated Material	27.18	
		For 0.025" (25 mil) Application, Add	1.55	
		For 0.03" (30 mil) Application, Add	2.45	
02 83 19 13-0034	SF	Cabinets, Ornate, Chemical Stripping Of Lead Contaminated Material	34.60	
		For 0.025" (25 mil) Application, Add	1.92	
		For 0.03" (30 mil) Application, Add	3.00	
02 83 19 13-0035	SF	Plaster, Stucco and Drywall Surfaces, Chemical Stripping Of Lead Contaminated Material	12.95	
		For 0.025" (25 mil) Application, Add	0.84	
		For 0.03" (30 mil) Application, Add	1.38	
02 83 19 13-0036	SF	Columns, Chemical Stripping Of Lead Contaminated Material	12.46	
		For 0.025" (25 mil) Application, Add	0.86	
		For 0.03" (30 mil) Application, Add	1.44	
		For 0.125" (125 mil) Application, Add	10.26	
02 83 19 13-0037	SF	Flush Doors, One Side, Chemical Stripping Of Lead Contaminated Material	10.98	
		For 0.025" (25 mil) Application, Add	0.74	
		For 0.03" (30 mil) Application, Add	1.23	
02 83 19 13-0038	SF	Raised Panel Doors and Decorative Doors, Chemical Stripping Of Lead Contaminated Material	13.47	
		For 0.025" (25 mil) Application, Add	0.87	
		For 0.03" (30 mil) Application, Add	1.42	
02 83 19 13-0039	SF	Sectional Panel Or Roll-Up Doors, Chemical Stripping Of Lead Contaminated	19.82	
		For 0.025" (25 mil) Application, Add	1.23	
		For 0.03" (30 mil) Application, Add	1.99	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0040	EA		Electrical Devices, Chemical Stripping Of Lead Contaminated Material.....	56.53	
			For 0.025" (25 mil) Application, Add	3.21	
			For 0.03" (30 mil) Application, Add	5.05	
02 83 19 13-0041	LF		Door Frames, Chemical Stripping Of Lead Contaminated Material.....	14.06	
			For 0.025" (25 mil) Application, Add	0.90	
			For 0.03" (30 mil) Application, Add	1.46	
02 83 19 13-0042	SF		Wood Floors, Chemical Stripping Of Lead Contaminated Material.....	7.77	
			For 0.025" (25 mil) Application, Add	0.58	
			For 0.03" (30 mil) Application, Add	0.99	
02 83 19 13-0043	SF		HVAC Grilles, Chemical Stripping Of Lead Contaminated Material.....	29.04	
			For 0.025" (25 mil) Application, Add	1.64	
			For 0.03" (30 mil) Application, Add	2.59	
02 83 19 13-0044	SF		HVAC Grilles, Ornate, Chemical Stripping Of Lead Contaminated Material.....	34.60	
			For 0.025" (25 mil) Application, Add	1.92	
			For 0.03" (30 mil) Application, Add	3.00	
02 83 19 13-0045	EA		Hinges, Chemical Stripping Of Lead Contaminated Material.....	18.25	
			For 0.025" (25 mil) Application, Add	1.20	
			For 0.03" (30 mil) Application, Add	1.98	
02 83 19 13-0046	EA		Up To 6" Diameter Hangers, Chemical Stripping Of Lead Contaminated Material.....	22.46	
			For 0.025" (25 mil) Application, Add	1.41	
			For 0.03" (30 mil) Application, Add	2.29	
			For 0.125" (125 mil) Application, Add	14.20	
02 83 19 13-0047	LF		Up To 2" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material.....	6.30	
			For 0.025" (25 mil) Application, Add	0.46	
			For 0.03" (30 mil) Application, Add	0.78	
			For 0.125" (125 mil) Application, Add	5.90	
02 83 19 13-0048	LF		>2" To 4" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material.....	10.07	
			For 0.025" (25 mil) Application, Add	0.65	
			For 0.03" (30 mil) Application, Add	1.06	
			For 0.125" (125 mil) Application, Add	6.84	
02 83 19 13-0049	LF		>4" To 8" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material.....	18.01	
			For 0.025" (25 mil) Application, Add	1.14	
			For 0.03" (30 mil) Application, Add	1.86	
			For 0.125" (125 mil) Application, Add	11.64	
02 83 19 13-0050	LF		>8" To 12" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material.....	24.67	
			For 0.025" (25 mil) Application, Add	1.52	
			For 0.03" (30 mil) Application, Add	2.46	
			For 0.125" (125 mil) Application, Add	14.75	
02 83 19 13-0051	LF		>12" To 16" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material.....	44.21	
			For 0.025" (25 mil) Application, Add	2.64	
			For 0.03" (30 mil) Application, Add	4.23	
			For 0.125" (125 mil) Application, Add	23.95	
02 83 19 13-0052	SF		>16" Diameter Pipes, Chemical Stripping Of Lead Contaminated Material, SF Of Surface Area.....	13.19	
			For 0.025" (25 mil) Application, Add	0.76	
			For 0.03" (30 mil) Application, Add	1.21	
			For 0.125" (125 mil) Application, Add	6.36	
02 83 19 13-0053	EA		Up To 12 SF Radiators, Chemical Stripping Of Lead Contaminated Material.....	262.11	
			For 0.025" (25 mil) Application, Add	14.49	
			For 0.03" (30 mil) Application, Add	22.60	
02 83 19 13-0054	SF		Flat And Raised Panel Wood Shutters, Chemical Stripping Of Lead Contaminated Material.....	18.54	
			For 0.025" (25 mil) Application, Add	1.47	
			For 0.03" (30 mil) Application, Add	2.53	
02 83 19 13-0055	SF		Louvered Wood Shutters, Chemical Stripping Of Lead Contaminated Material.....	20.27	
			For 0.025" (25 mil) Application, Add	1.55	
			For 0.03" (30 mil) Application, Add	2.66	
02 83 19 13-0056	SF		Siding, Chemical Stripping Of Lead Contaminated Material.....	10.54	
			For 0.025" (25 mil) Application, Add	0.77	
			For 0.03" (30 mil) Application, Add	1.30	
			For 0.125" (125 mil) Application, Add	9.78	
02 83 19 13-0057	SF		Soffit, Chemical Stripping Of Lead Contaminated Material.....	21.99	
			For 0.025" (25 mil) Application, Add	1.29	
			For 0.03" (30 mil) Application, Add	2.06	
			For 0.125" (125 mil) Application, Add	11.26	
02 83 19 13-0058	SF		Flat Steel Surfaces, Chemical Stripping Of Lead Contaminated Material.....	10.16	
			For 0.025" (25 mil) Application, Add	0.70	
			For 0.03" (30 mil) Application, Add	1.17	
			For 0.125" (125 mil) Application, Add	8.30	
02 83 19 13-0059	SF		Corrugated Steel, Chemical Stripping Of Lead Contaminated Material.....	11.53	
			For 0.025" (25 mil) Application, Add	0.77	
			For 0.03" (30 mil) Application, Add	1.27	
			For 0.125" (125 mil) Application, Add	8.64	
02 83 19 13-0060	SF		Steel Beams and Columns, Chemical Stripping Of Lead Contaminated Material.....	11.49	
			For 0.025" (25 mil) Application, Add	0.77	
			For 0.03" (30 mil) Application, Add	1.27	
			For 0.125" (125 mil) Application, Add	8.63	
02 83 19 13-0061	SF		Steel Trusses, Chemical Stripping Of Lead Contaminated Material.....	16.25	
			For 0.025" (25 mil) Application, Add	1.00	
			For 0.03" (30 mil) Application, Add	1.63	
			For 0.125" (125 mil) Application, Add	9.82	
02 83 19 13-0062	SF		Wood Surfaces, Chemical Stripping Of Lead Contaminated Material.....	11.49	
			For 0.025" (25 mil) Application, Add	0.77	
			For 0.03" (30 mil) Application, Add	1.27	
			For 0.125" (125 mil) Application, Add	8.63	

02 Existing Conditions**02 80 Facility Remediation****02 83 Lead Remediation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0063	SF	Windows (Sash, Sill, Jambs, Casing Trim), One Side, 1/1 Light, Chemical Stripping Of Lead Contaminated Material.....	26.37	
		For 0.025" (25 mil) Application, Add	1.51	
		For 0.03" (30 mil) Application, Add	2.39	
02 83 19 13-0064	SF	Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 2/2 Light, Chemical Stripping Of Lead Contaminated Material.....	28.86	
		For 0.025" (25 mil) Application, Add	1.64	
		For 0.03" (30 mil) Application, Add	2.57	
02 83 19 13-0065	SF	Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 4/4 Light, Chemical Stripping Of Lead Contaminated Material.....	30.54	
		For 0.025" (25 mil) Application, Add	1.72	
		For 0.03" (30 mil) Application, Add	2.70	
02 83 19 13-0066	SF	Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 6/6 Light, Chemical Stripping Of Lead Contaminated Material.....	32.23	
		For 0.025" (25 mil) Application, Add	1.80	
		For 0.03" (30 mil) Application, Add	2.83	
02 83 19 13-0067	SF	Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 8/8 Light Chemical Stripping Of Lead Contaminated Material.....	33.91	
		For 0.025" (25 mil) Application, Add	1.89	
		For 0.03" (30 mil) Application, Add	2.95	
02 83 19 13-0068	SF	Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 10/10 Light, Chemical Stripping Of Lead Contaminated Material.....	35.65	
		For 0.025" (25 mil) Application, Add	1.97	
		For 0.03" (30 mil) Application, Add	3.08	
02 83 19 13-0069	SF	Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 12/12 light Chemical Stripping Of Lead Contaminated Material.....	37.29	
		For 0.025" (25 mil) Application, Add	2.06	
		For 0.03" (30 mil) Application, Add	3.20	
02 83 19 13-0070	SF	Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 14/14 Light, Chemical Stripping Of Lead Contaminated Material.....	38.13	
		For 0.025" (25 mil) Application, Add	2.10	
		For 0.03" (30 mil) Application, Add	3.27	
02 83 19 13-0071	SF	Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 16/16 Light Chemical Stripping Of Lead Contaminated Material.....	38.99	
		For 0.025" (25 mil) Application, Add	2.14	
		For 0.03" (30 mil) Application, Add	3.33	
02 83 19 13-0072	SF	Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 20/20 Light, Chemical Stripping Of Lead Contaminated Material.....	39.80	
		For 0.025" (25 mil) Application, Add	2.18	
		For 0.03" (30 mil) Application, Add	3.39	
02 83 19 13-0073	SF	Metal Stairs, Chemical Stripping Of Lead Contaminated Material	52.64	
		For 0.025" (25 mil) Application, Add	3.01	
		For 0.03" (30 mil) Application, Add	4.76	
		For 0.125" (125 mil) Application, Add	24.62	
02 83 19 13-0074	LF	Metal Single Hand Rail, Chemical Stripping Of Lead Contaminated Material.....	9.17	
		For 0.025" (25 mil) Application, Add	0.60	
		For 0.03" (30 mil) Application, Add	0.99	
		For 0.125" (125 mil) Application, Add	6.61	
02 83 19 13-0075	SF	Metal Railing And Posts, Chemical Stripping Of Lead Contaminated Material	26.79	
		Note: The unit of measure "SF" is measured for 'Length x Height'. Work includes both sides of railing.		
		For 0.025" (25 mil) Application, Add	1.63	
		For 0.03" (30 mil) Application, Add	2.62	
		For 0.125" (125 mil) Application, Add	15.28	
02 83 19 13-0076	SF	Metal Picket Fence, Chemical Stripping Of Lead Contaminated Material.....	29.27	
		For 0.025" (25 mil) Application, Add	1.70	
		For 0.03" (30 mil) Application, Add	2.70	
		For 0.125" (125 mil) Application, Add	14.46	

02 83 19 13-0077 Demolish Lead Contaminated Material (02 83 19 13)

Note: Includes waste handling, packing, all personnel blood work, lab test fees and monitoring. Industrial coatings often contain other hazardous ingredients in addition to or in place of lead. These might include, but are not be limited to, chromium, cadmium and mercury.

02 83 19 13-0078	SF	Demolish Ceiling Suspension System, Lead Contaminated Material	2.30	
02 83 19 13-0079	SF	Demolish Suspended Ceiling System And Tile, Lead Contaminated Material	1.34	
02 83 19 13-0080	SF	Demolish Acoustical Ceiling Tile, Lead Contaminated Material	0.86	
02 83 19 13-0081	SF	Demolish Metal Pan Grid System, Lead Contaminated Material	1.33	
02 83 19 13-0082	EA	Demolish Ceiling And Recessed Light Fixtures, Lead Contaminated Material	64.36	
02 83 19 13-0083	EA	Demolish >2' x 4' Light Fixtures, Lead Contaminated Material	85.38	
02 83 19 13-0084	SF	Demolish Non Load Bearing Partitions Of Plaster Or Stucco, Lath And Studs, Lead Contaminated Material	9.53	
02 83 19 13-0085	SF	Demolish Non Load Bearing Partitions Of Gypsum Board And Studs, Lead Contaminated Material	5.34	
02 83 19 13-0086	SF	Demolish Brick, Lead Contaminated Material	4.02	
02 83 19 13-0087	SF	Demolish Concrete Block, Lead Contaminated Material	5.18	
02 83 19 13-0088	SF	Demolish Tile, Lead Contaminated Material	3.90	
02 83 19 13-0089	SF	Demolish Up To 6" Concrete, Lead Contaminated Material	5.86	
02 83 19 13-0090	IN	Drilling, Up To 1/2" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth	4.57	
02 83 19 13-0091	IN	Drilling, >1/2" To 1" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth.....	6.09	
02 83 19 13-0092	LF	Demolish Wood Balustrades And Railings, Lead Contaminated Material.....	6.68	
02 83 19 13-0093	LF	Demolish Up To 6" Wide Baseboard, Lead Contaminated Material.....	1.73	
02 83 19 13-0094	LF	Demolish >6" To 12" Wide Baseboard, Lead Contaminated Material	2.18	
02 83 19 13-0095	LF	Demolish Base Shoe Molding, Lead Contaminated Material	1.42	
02 83 19 13-0096	SF	Demolish Concrete, Lead Contaminated Material	13.27	
02 83 19 13-0097	LF	Demolish Cabinets, Lead Contaminated Material.....	30.93	
02 83 19 13-0098	SF	Demolish Ceilings, Gypsum Board, Lead Contaminated Material	1.75	
02 83 19 13-0099	SF	Demolish Up To 12" Diameter Columns, Lead Contaminated Material	17.14	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0100 SF Demolish Cornice, Lead Contaminated Material	2.28	
02 83 19 13-0101 EA Demolish Doors, Lead Contaminated Material	67.09	
02 83 19 13-0102 LF Demolish Door And Window Trim Or Frames, Lead Contaminated Material	2.04	
02 83 19 13-0103 EA Demolish Electrical Devices, Lead Contaminated Material	20.58	
02 83 19 13-0104 LF Demolish Up To 1" Diameter Electrical Conduit, Lead Contaminated Material	2.64	
02 83 19 13-0105 LF Demolish >1" To 2" Diameter Electrical Conduit, Lead Contaminated Material	4.40	
02 83 19 13-0106 SF Demolish Wood Floors, Lead Contaminated Material	3.17	
02 83 19 13-0107 SF Demolish Grilles, Lead Contaminated Material	3.73	
02 83 19 13-0108 EA Demolish Hinges, Lead Contaminated Material	7.48	
02 83 19 13-0109 EA Demolish Up To 6" Diameter Hangers, Lead Contaminated Material	16.08	
02 83 19 13-0110 LF Demolish Up To 2" Diameter Pipes, Lead Contaminated Material	6.59	
02 83 19 13-0111 LF Demolish >2" To 4" Diameter Pipes, Lead Contaminated Material	9.62	
02 83 19 13-0112 LF Demolish >4" To 8" Diameter Pipes, Lead Contaminated Material	14.53	
02 83 19 13-0113 LF Demolish >8" To 12" Diameter Pipes, Lead Contaminated Material	26.81	
02 83 19 13-0114 EA Demolish Radiators, Lead Contaminated Material	115.79	
02 83 19 13-0115 EA Demolish Shutters, Lead Contaminated Material	45.12	
02 83 19 13-0116 SF Demolish Siding, Lead Contaminated Material	1.80	
02 83 19 13-0117 SF Demolish Soffit, Lead Contaminated Material	1.52	
02 83 19 13-0118 SF Demolish Flat Steel Surfaces, Lead Contaminated Material	4.17	
02 83 19 13-0119 SF Demolish Steel Beams, Lead Contaminated Material	4.91	
02 83 19 13-0120 SF Demolish Trusses, Lead Contaminated Material	6.45	
02 83 19 13-0121 SF Demolish Walls, Wood, Lead Contaminated Material	4.77	
02 83 19 13-0122 SF Demolish Windows, Lead Contaminated Material	16.02	
02 83 19 13-0123 SF Demolish Metal Stair, Lead Contaminated Material	7.67	
02 83 19 13-0124 LF Demolish Single Metal Hand Rail, Lead Contaminated Material	5.63	
02 83 19 13-0125 LF Demolish Metal Railing And Posts, Lead Contaminated Material	9.20	
02 83 19 13-0126 SF Demolish Metal Picket Fence, Lead Contaminated Material	2.54	
02 83 19 13-0127 SF Demolish Plywood, Lead Contaminated Material	6.92	
02 83 19 13-0128 SF Demolish Planks (Various Sizes), Lead Contaminated Material	3.38	
02 83 19 13-0129 EA Demolish Metal Brackets Or Other Small Metal Shapes, Lead Contaminated Material	21.13	
02 83 19 13-0130 SF Demolish Ceramic Tile Block, Lead Contaminated Material	4.61	
02 83 19 13-0131 LF Demolish Metal Guard Rails, Lead Contaminated Material	12.68	
02 83 19 13-0132 SF Demolish Up To 100 SF Gypsum Wall Board, Lead Contaminated Material	6.76	
02 83 19 13-0133 SF Demolish >100 To 500 SF Gypsum Wall Board, Lead Contaminated Material	4.86	
02 83 19 13-0134 SF Demolish >500 To 2,500 SF Gypsum Wall Board, Lead Contaminated Material	3.80	
02 83 19 13-0135 SF Demolish >2,500 SF Gypsum Wall Board, Lead Contaminated Material	2.96	
02 83 19 13-0136 SF Demolish Up To 100 SF Plaster/Stucco, Lead Contaminated Material	21.13	
02 83 19 13-0137 SF Demolish >100 To 500 SF Plaster/Stucco, Lead Contaminated Material	15.03	
02 83 19 13-0138 SF Demolish >500 To 2,500 SF Plaster/Stucco, Lead Contaminated Material	11.27	
02 83 19 13-0139 SF Demolish >2,500 To 10,000 SF Plaster/Stucco, Lead Contaminated Material	8.45	
02 83 19 13-0140 Wet Sanding/Scraping Of Lead Contaminated Material (02 83 19 13)		
Note: Remove loose, flaking lead-based paint to prepare for painting		
02 83 19 13-0141 SF Wet Sand/Scrape Of Lead Contaminated Material To Prepare For Painting	3.22	
02 83 19 13-0142 Lead Abatement Encapsulation (02 83 19 13)		
Note: Can also be used for asbestos contaminated encapsulation. Spray applied application unless task described otherwise.		
02 83 19 13-0143 SF Balustrades, Lead Abatement Encapsulation	5.89	
02 83 19 13-0144 LF Up To 6" Wide, Baseboard, Lead Abatement Encapsulation	5.80	
02 83 19 13-0145 LF >6" To 12" Wide, Baseboard, Lead Abatement Encapsulation	7.89	
02 83 19 13-0146 SF Brick, Concrete Block, Concrete, Lead Abatement Encapsulation	3.80	
02 83 19 13-0147 SF Ornate Cabinets, Lead Abatement Encapsulation	8.50	
02 83 19 13-0148 SF Simple Design Cabinets, Lead Abatement Encapsulation	6.94	
02 83 19 13-0149 SF Drywall Ceilings, Lead Abatement Encapsulation	2.40	
02 83 19 13-0150 SF Wood Ceilings, Lead Abatement Encapsulation	2.91	
02 83 19 13-0151 SF Acoustical And Popcorn Ceilings, Lead Abatement Encapsulation	2.70	
02 83 19 13-0152 SF Columns, Lead Abatement Encapsulation	4.58	
02 83 19 13-0153 SF Doors, Lead Abatement Encapsulation	8.70	
02 83 19 13-0154 LF Up To 2" Electrical Conduit, Lead Abatement Encapsulation	3.85	
02 83 19 13-0155 SF Picket Fence (Brush), Lead Abatement Encapsulation	2.76	
02 83 19 13-0156 SF Wood Floors (Roller), Lead Abatement Encapsulation	2.31	
02 83 19 13-0157 SF Grilles, Vents, Lead Abatement Encapsulation	6.34	
02 83 19 13-0158 LF Gutters And Downspouts, Lead Abatement Encapsulation	5.89	
02 83 19 13-0159 EA Hangers, Lead Abatement Encapsulation	49.80	
02 83 19 13-0160 LF Up To 4" Diameter Pipe (Brush), Lead Abatement Encapsulation	3.58	
02 83 19 13-0161 LF >4" To 8" Diameter Pipe (Brush), Lead Abatement Encapsulation	5.18	
02 83 19 13-0162 LF >8" To 12" Diameter Pipe (Brush), Lead Abatement Encapsulation	8.06	
02 83 19 13-0163 LF >12" To 16" Diameter Pipe (Brush), Lead Abatement Encapsulation	11.88	
02 83 19 13-0164 EA Radiators, Lead Abatement Encapsulation	130.01	
02 83 19 13-0165 EA Up To 6" Shutters, Lead Abatement Encapsulation	185.16	
02 83 19 13-0166 SF Siding, Lead Abatement Encapsulation	3.28	
02 83 19 13-0167 SF Up To 12" Soffit, Lead Abatement Encapsulation	4.58	
02 83 19 13-0168 SF Steel, Flat Surfaces And Tanks Up To 12", Lead Abatement Encapsulation	3.80	
02 83 19 13-0169 SF Steel Beams And Metal Decks, Lead Abatement Encapsulation	4.96	
02 83 19 13-0170 SF Trusses, Lead Abatement Encapsulation	4.96	
02 83 19 13-0171 SF Drywall Walls, Lead Abatement Encapsulation	2.13	
02 83 19 13-0172 SF Wood Walls, Lead Abatement Encapsulation	2.62	
02 83 19 13-0173 EA Window Without Grille, Lead Abatement Encapsulation	110.32	

02 Existing Conditions**02 80 Facility Remediation****02 83 Lead Remediation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0174	EA	Window With Grille, Lead Abatement Encapsulation.....	141.74	
02 83 19 13-0175	LF	Wood Door Frames And Trim, Lead Abatement Encapsulation	3.35	
02 83 19 13-0176	LF	Steel Lintels, Lead Abatement Encapsulation.....	3.86	
02 83 33 Removal and Disposal of Material Containing Lead (02 83)				
02 83 33 13 Lead-Based Paint Removal and Disposal (02 83 33)				
02 83 33 13-0001		Remove Loose Dirt And Debris Containing Lead (02 83 33 13)		
02 83 33 13-0002	SF	High Efficiency Particulate Air (HEPA) Vacuum And Wet Cleaning Of Lead Contaminated Area With Mild Detergent.....	0.27	
02 83 33 13-0003	SF	High Efficiency Particulate Air (HEPA) Vacuum And Wet Cleaning Of Lead Contaminated Area With Tri-Sodium Phosphate	0.27	
02 83 33 13-0004	SF	High Efficiency Particulate Air (HEPA) Vacuum And Shampoo Cleaning Of Lead Contaminated Carpeting	1.33	
02 84 Polychlorinated Biphenyl Remediation (02 80)				
02 84 16 Handling of Lighting Ballasts and Lamps Containing PBCs and Mercury (02 84)				
02 84 16 00-0001		Removal Of TSCA-Exempt PCB And Non-PCB Ballasts From Demolished Fixtures (02 84 16)		
		Note: Includes removal of TSCA-exempt PCB and Non-PCB ballast from demolished lighting fixture and placing ballast in an approved container for recycling.		
02 84 16 00-0002	EA	Removal Of TSCA-Exempt Polychlorinated Biphenyl (PCB) And Non-PCB Ballast From A Demolished Fixture For Recycling.....	11.88	
02 84 16 00-0003		Recycle TSCA-Exempt PCB And Non-PCB Ballasts (02 84 16)		
		Note: Non leaking ballasts. Includes containers, shipping costs and recycling fees. Excludes ballast removal.		
02 84 16 00-0004	EA	Recycle Non-Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures.....	1.69	
02 84 16 00-0005	EA	Recycle Non-Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures.....	2.54	
02 84 16 00-0006	EA	Recycle TSCA-Exempt Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures	7.91	
02 84 16 00-0007	EA	Recycle TSCA-Exempt Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures.....	18.07	
02 84 16 00-0008		Disposal Of Leaking PCB And Non-PCB Ballasts (02 84 16)		
		Note: Disposal at an EPA approved facility. Includes containers, shipping costs and disposal fees. Excludes ballast removal.		
02 84 16 00-0009	EA	Dispose Of Leaking Non-Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures.....	4.24	
02 84 16 00-0010	EA	Dispose Of Leaking Non-Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures	6.35	
02 84 16 00-0011	EA	Dispose Of Leaking Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures	11.86	
02 84 16 00-0012	EA	Dispose Of Leaking Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures	27.11	
02 87 Bio-Hazard Material Remediation (02 80)				
02 87 16 Excrement Removal (02 87)				
		Note: Includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, clean-up, vacuuming, disposal, personnel health monitoring, documentation and other associated costs necessary for the complete removal and disposal of the contaminated material in accordance with EPA and local regulations. The quantity of the entire project, not a particular work area, is to be used in determining which tasks apply. There is a task with a unit of measure of EA for a quantity of less than 10 SF, followed by a series of tasks for additional quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus each additional task in sequence to arrive at the total quantity for the entire project, not a particular work area.		
02 87 16 13 Bird Excrement Removal (02 87 16)				
02 87 16 13-0001		Bird Waste Removal (02 87 16 13)		
		Note: In addition to items listed the Bio-Hazard Material Remediation note above, includes wetting agents and disinfection of contaminated surfaces.		
02 87 16 13-0002	EA	Up To 10 SF Bird Waste Removal, Up To 3" Thickness.....	610.33	
		For Work In Restricted Working Space, Add	183.10	
02 87 16 13-0003	SF	>10 To 500 SF Bird Waste Removal, Up To 3" Thickness	10.18	
		For Work In Restricted Working Space, Add	3.05	
02 87 16 13-0004	SF	>500 To 2,500 SF Bird Waste Removal, Up To 3" Thickness	9.25	
		For Work In Restricted Working Space, Add	2.78	
02 87 16 13-0005	SF	>2,500 To 10,000 SF Bird Waste Removal, Up To 3" Thickness	8.41	
		For Work In Restricted Working Space, Add	2.52	
02 87 16 13-0006	SF	>10,000 SF Bird Waste Removal, Up To 3" Thickness.....	7.65	
		For Work In Restricted Working Space, Add	2.30	
02 89 Hazmat Ancillary Tasks and Support (02 80)				
02 89 00 00-0001		Barriers And Protection (02 89)		
		Note: Includes removal and disposal after use.		
02 89 00 00-0002		Isolation Barriers (02 89 00 00-0001)		
		See CSI section 01 56 16 00-0001 for temporary stud walls.		
02 89 00 00-0003		Hazmat Containment Construction Plastic Sheeting (02 89 00 00-0001)		
02 89 00 00-0004	SF	6 Mil Plastic Sheeting, Applied To Floors, Hazmat Containment Construction.....	0.38	



Existing Conditions		02	02
Facility Remediation		02 80	
Hazmat Ancillary Tasks and Support		02 89	

MINOR			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM	DESCRIPTION		
02 89 00 00-0005	SF	6 Mil Plastic Sheeting, Applied To Walls, Hazmat Containment Construction	0.50	
02 89 00 00-0006	SF	6 Mil Plastic Sheeting, Applied To Ceilings, Hazmat Containment Construction	0.66	
02 89 00 00-0007	SF	6 Mil Plastic Fire Retardant, Anti Static Sheeting, Applied To Floors, Hazmat Containment Construction	0.70	
02 89 00 00-0008	SF	6 Mil Plastic Fire Retardant, Anti Static Retardant Sheeting, Applied To Walls, Hazmat Containment Construction	0.89	
02 89 00 00-0009	SF	6 Mil Plastic Fire Retardant, Anti Static Retardant Sheeting, Applied To Ceilings, Hazmat Containment Construction	1.16	
02 89 00 00-0010		Decontamination Chambers (02 89) Note: Includes removal after use.		
02 89 00 00-0011	EA	3 Stage Portable Personnel Decontamination Wash Facility Note: Includes connection to negative air system.	992.44	
02 89 00 00-0012	EA	5 Stage Portable Personnel Decontamination Wash Facility Note: Includes connection to negative air system.	1,170.16	
02 89 00 00-0013	EA	Portable Waste Decontamination Unit Note: Includes connection to negative air system.	609.36	
		For Dismantling And Relocation To A Different Area, Add	394.00	

END OF SECTION 02

02	02	Existing Conditions
	02 80	Facility Remediation
	02 89	Hazmat Ancillary Tasks and Support



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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Concrete		03	CS
Maintenance of Concrete		03 01	
Maintenance of Cast-In-Place Concrete		03 01 30	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

03 Concrete

03 01 Maintenance of Concrete⁽⁰³⁾

03 01 30 Maintenance of Cast-In-Place Concrete^(03 01)

03 01 30 71 Rehabilitation of Cast-In-Place Concrete^(03 01 30)

03 01 30 71-0001	Concrete Resurfacing/Repair ^(03 01 30 71)	
See CSI section 09 01 90 52-0002 for surface preparation as required.		
03 01 30 71-0002	Concrete Repair ^(03 01 30 71-0001)	
03 01 30 71-0003	Decks Or Floors ^(03 01 30 71-0002)	
Note: Includes bonding agent and sealant. Excludes saw cutting, sand blasting and forming.		
03 01 30 71-0004	SF Patch Decks Or Floors With 1/8" To 1/4" Thick Cementitious Mortar	7.05
03 01 30 71-0005	SF Patch Decks Or Floors With 1/8" To 1/4" Thick Epoxy Cementitious Mortar	25.36
03 01 30 71-0006	SF Patch Decks Or Floors With White Aluminum Oxide Grit (Non Slip Aggregate)	0.68
03 01 30 71-0007	Verticals Or Overheads ^(03 01 30 71-0002)	
Note: Includes bonding agent and sealant. Excludes saw cutting, sand blasting and forming.		
03 01 30 71-0008	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Cementitious Mortar	10.36
03 01 30 71-0009	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Epoxy Cementitious Mortar	32.71
03 01 30 71-0010	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Latex Cementitious Mortar	37.36
03 01 30 71-0011	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Elastomeric Compound	8.55
03 01 30 71-0012	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Copolymer Cementitious Compound	15.18
Note: Rapid Set - WunderFixx		
03 01 30 71-0013	Bridge Deck Treatment ^(03 01 30 71-0002)	
03 01 30 71-0014	SF Sweep Bridge Deck	0.02
03 01 30 71-0015	SF Clean Bridge Deck	0.03
03 01 30 71-0016	SF Treat Bridge Deck With Methacrylate Resin Sealant	2.14
03 01 30 71-0017	Concrete Finishes ^(03 01 30 71-0001)	
03 01 30 71-0018	Concrete Patching ^(03 01 30 71-0017)	
03 01 30 71-0019	Walls ^(03 01 30 71-0018)	
03 01 30 71-0020	BAG Sika Top 111 Plus	166.59
Note: SikaTop 111 PLUS is a two-component, polymer-modified, portland-cement, fast-setting, screed mortar.		
Yield: Approximately 0.5 cu. ft./unit. Approximately 0.75 cu. ft./unit (SikaTop 111 + 42 lbs. of 3/8" pea gravel).		
	For Up To 10, Add	61.48
	For >10 To 25, Add	36.89
	For >25 To 50, Add	24.59
	For >50 To 75, Add	12.30
03 01 30 71-0021	BAG Sika Grout 212, 50 LB Bag	114.21
Note: SikaGrout 212 is a non-shrink, cementitious grout with a unique 2-stage shrinkage compensating mechanism. It is non-metallic and contains no chloride. Coverage: Approximately 0.44 cu. ft./bag at high flow.		
	For Up To 10, Add	38.92
	For >10 To 25, Add	23.35
	For >25 To 50, Add	15.57
	For >50 To 75, Add	7.78
03 01 30 71-0022	EA Sika Flex 1A, 10.3 Ounce Tube	38.21
Note: Sikaflex-1a is a premium-grade, high-performance, moisture-cured, 1-component, polyurethane-based, non-sag elastomeric sealant. Coverage: 10.3 fl. oz. cartridge seals 12.4 lineal ft. of 1/2 x 1/4 in. joint. 20 fl. oz. uni-pac sausage seals 24 lineal ft. of 1/2 x 1/4 in. joint.		
03 01 30 71-0023	BAG Pea Gravel	29.16
03 01 30 71-0024	Crack Repair For Concrete ^(03 01 30 71-0001)	
03 01 30 71-0025	Non Structural Crack Repair For Concrete ^(03 01 30 71-0024)	
03 01 30 71-0026	Surface Applied, Non Structural Crack Repair For Concrete ^(03 01 30 71-0025)	
Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing sealer with caulk gun, cartridge gun, squeeze bottle, etc. Excludes backer rod and sanding.		
03 01 30 71-0027	LF Up To 1/4" Wide, Latex Emulsion, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Squeeze Tube (Quikrete® Concrete Crack Seal)	6.20
	For V-Grooving Crack With Grinder, Add	4.94
03 01 30 71-0028	LF >1/4" To 1/2" Wide, Latex Emulsion, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Squeeze Tube (Quikrete® Concrete Crack Seal)	8.11
	For V-Grooving Crack With Grinder, Add	4.83
03 01 30 71-0029	LF Up To 1/4" Wide, Sanded Acrylic Latex, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Quikrete® Concrete Repair)	6.33
	For V-Grooving Crack With Grinder, Add	4.94
03 01 30 71-0030	LF >1/4" To 1/2" Wide, Sanded Acrylic Latex, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Quikrete® Concrete Repair)	8.38
	For V-Grooving Crack With Grinder, Add	4.83

03 Concrete**03 01 Maintenance of Concrete****03 01 30 Maintenance of Cast-In-Place Concrete**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 01 30 71-0031 LF Up To 1/4" Wide, Self Leveling Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Self-Leveling Sealant)	6.82	
For V-Grooving Crack With Grinder, Add	4.94	
03 01 30 71-0032 LF >1/4" To 1/2" Wide, Self Leveling Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Self-Leveling Sealant)	9.36	
For V-Grooving Crack With Grinder, Add	4.83	
03 01 30 71-0033 LF Up To 1/4" Wide, Non-Sag Elastomeric Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Concrete Fix)	7.17	
For V-Grooving Crack With Grinder, Add	4.94	
03 01 30 71-0034 LF >1/4" To 1/2" Wide, Non-Sag Elastomeric Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Concrete Fix)	10.07	
For V-Grooving Crack With Grinder, Add	4.83	
03 01 30 71-0035 Pressure Injected, Non Structural Crack Repair For Concrete (03 01 30 71-0025)		
Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing injection ports, sealing the crack opening (one side only), injecting the crack with polyurethane and restoring the sealed surface to flush conditions. Excludes disposal.		
03 01 30 71-0036 LF Up To 1/4" Wide, Water Activated Polyurethane Foam Grout, Non Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (SealBoss 1570)	28.35	
For Cracks Accessible From Both Sides, Add	5.78	
03 01 30 71-0037 Structural Crack Repair For Concrete (03 01 30 71-0024)		
03 01 30 71-0038 Surface Applied, Structural Crack Repair For Concrete (03 01 30 71-0037)		
Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Excludes disposal.		
03 01 30 71-0039 LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 35)	7.26	
For V-Grooving Crack With Grinder, Add	4.94	
03 01 30 71-0040 LF >1/4" To 1/2" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 35)	10.25	
For V-Grooving Crack With Grinder, Add	4.83	
03 01 30 71-0041 LF Up To 1/4" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied Trowel (Sikadur® 52)	7.07	
For V-Grooving Crack With Grinder, Add	4.94	
03 01 30 71-0042 LF >1/4" To 1/2" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 52)	9.86	
For V-Grooving Crack With Grinder, Add	4.83	
03 01 30 71-0043 LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Sikadur® Crack Fix)	8.66	
For V-Grooving Crack With Grinder, Add	4.94	
03 01 30 71-0044 LF >1/4" To 1/2" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Sikadur® Crack Fix)	13.05	
For V-Grooving Crack With Grinder, Add	4.83	
03 01 30 71-0045 Pressure Injected, Structural Crack Repair For Concrete (03 01 30 71-0037)		
Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing injection ports, sealing the crack opening (one side only), injecting the crack with epoxy and restoring the sealed surface to flush conditions. Excludes disposal.		
03 01 30 71-0046 LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (Sikadur® 35)	24.54	
For Cracks Accessible From Both Sides, Add	5.78	
03 01 30 71-0047 LF Up To 1/4" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (Sikadur® 52)	24.34	
For Cracks Accessible From Both Sides, Add	5.78	
03 01 30 71-0048 Pool Deck Texture Repair (03 01 30 71-0001)		
03 01 30 71-0049 SF Pool Deck Texture Repair	18.69	
Note: Includes surface preparation, cleaning, repair of surface, crack repair, liquid underlayment coat, troweled top coat and finish.		
03 01 30 71-0050 Carbon Fiber Strengthening System (03 01 30 71-0001)		
Note: Includes preparing surface, dust and debris removal by hand, clean and protect adjacent area, fill voids, primer, fabric substrate layers, final coat of epoxy and finish. Excludes disposal.		
03 01 30 71-0051 SF Carbon Fiber Strengthening System For Concrete Beams, Per Layer	84.77	
Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.		
03 01 30 71-0052 SF Carbon Fiber Strengthening System For Concrete Columns, Per Layer	75.04	
Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.		
03 01 30 71-0053 SF Carbon Fiber Strengthening System For Concrete Ceiling Slabs, Per Layer	69.57	
Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.		
03 01 30 71-0054 SF Carbon Fiber Strengthening System For Walls, Per Layer	66.54	
Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.		
03 01 30 71-0055 Corrosive Inhibitor (03 01 30 71)		
03 01 30 71-0056 SF Corrosive Inhibitor	5.79	
03 01 30 72 Strengthening Of Cast-in-Place Concrete (03 01 30)		



		Concrete	03	03
		Maintenance of Concrete	03 01	
		Maintenance of Cast-In-Place Concrete	03 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

03 01 30 72-0001			Concrete Surface Repairs (03 01 30 72)		
03 01 30 72-0002	SF		Sound The Concrete Surface To Locate Delaminated Areas	0.36	

03 05 Common Work Results For Concrete (03)

03 05 13 Concrete Admixtures (03 05)

03 05 13 00-0001			Concrete Admixtures (03 05 13)		
03 05 13 00-0002	CY		Low Range Water Reducing (LRWR), Type A Concrete Admixture	10.16	
03 05 13 00-0003	CY		Set Retarding, Type B Concrete Admixture	7.03	
03 05 13 00-0004	CY		1% Calcium Chloride Accelerating, Type C Concrete Admixture	10.94	
03 05 13 00-0005	CY		2% Calcium Chloride Accelerating, Type C Concrete Admixture	21.88	
03 05 13 00-0006	CY		1% Non-Chloride Accelerating, Type C Concrete Admixture	19.53	
03 05 13 00-0007	CY		2% Non-Chloride Accelerating, Type C Concrete Admixture	39.06	
03 05 13 00-0008	CY		1% Water Reducing and Retarding (Hydration Stabilizer), Type D Concrete Admixture	8.44	
03 05 13 00-0009	CY		2% Water Reducing and Retarding (Hydration Stabilizer), Type D Concrete Admixture	16.45	
03 05 13 00-0010	CY		1% Water Reducing and Accelerating (High Early Strength), Type E Concrete Admixture	11.72	
03 05 13 00-0011	CY		2% Water Reducing and Accelerating (High Early Strength), Type E Concrete Admixture	23.44	
03 05 13 00-0012	CY		Mid Range Water Reducing (MRWR) Superplasticizer, Type A Or E Concrete Admixture	7.81	
03 05 13 00-0013	CY		High Range Water Reducing (HRWR) Superplasticizer, Type F Concrete Admixture	18.75	
03 05 13 00-0014	CY		1 LB/CY Polyethylene, Polypropylene, Nylon, Synthetic Plastic Fibers, Concrete Admixture	16.67	
03 05 13 00-0015	CY		1-1/2 LB/CY Polyethylene, Polypropylene, Nylon, Synthetic Plastic Fibers, Concrete Admixture	25.00	
03 05 13 00-0016	CY		25 LB/CY Steel Fibers, Concrete Admixture	41.34	
03 05 13 00-0017	CY		10% Microsilica (Silica Fume), Concrete Admixture	125.00	
03 05 13 00-0018	CY		Corrosion Inhibiting Concrete Admixture	46.88	
03 05 13 00-0019	CY		Winter Service Or Heat, Concrete Add	25.00	
03 05 13 00-0020	CY		Chilled Water, Concrete Add	25.00	
03 05 13 00-0021	CY		Subtle Color (See Davis Colors Color Card), Concrete Admixture	37.10	
03 05 13 00-0022	CY		Standard Color (See Davis Colors Color Card), Concrete Admixture	61.83	
03 05 13 00-0023	CY		Premium Color (See Davis Colors Color Card), Concrete Admixture	118.72	
03 05 13 00-0024	CY		Ultra Premium Color (See Davis Colors Color Card), Concrete Admixture	164.89	

03 10 Concrete Forming and Accessories (03)

03 11 Concrete Forming (03 10)

03 11 13 Structural Cast-In-Place Concrete Forming (03 11)

Note: Per square foot of formwork.

03 11 13 00-0001			Wood Formwork (03 11 13)		
Note: For job built wood and/or plywood form systems where metal framed formwork cannot be used. Includes erecting, stripping, stacking, plywood, framing lumber, oiling, studs/walers, strongbacks, deadmen, supporting braces, turnbuckles, ties, and clips.					
03 11 13 00-0002			Foundation Wood Formwork (03 11 13 00-0001)		
Note: For foundation work below or at grade.					
03 11 13 00-0003	SF		Continuous Footings Foundation Wood Formwork	8.92	
For <1,000, Add				1.64	
For Foundations >8' Below Grade, Add				1.56	
For Curved Formwork, Add				3.12	
03 11 13 00-0004	SF		Pile Cap, Pier Or Spread Footings Foundation Wood Formwork	10.56	
For <1,000, Add				1.96	
For Foundations >8' Below Grade, Add				1.88	
For Curved Formwork, Add				3.76	
03 11 13 00-0005	SF		Mat Foundation Wood Formwork	12.05	
For <1,000, Add				2.28	
For Foundations >8' Below Grade, Add				2.21	
For Curved Formwork, Add				4.42	
03 11 13 00-0006	SF		Grade Beams Or Duct Bank Foundation Wood Formwork	10.12	
For <1,000, Add				1.89	
For Foundations >8' Below Grade, Add				1.82	
For Curved Formwork, Add				3.64	
03 11 13 00-0007	SF		Below Grade Walls Foundation Wood Formwork	14.41	
Note: Excludes footing					
For <1,000, Add				2.68	
For Foundations >8' Below Grade, Add				2.58	
For Curved Formwork, Add				5.16	
03 11 13 00-0008			Slab Edge And Block-Out Wood Formwork (03 11 13 00-0001)		
03 11 13 00-0009	LF		Up To 6" High Slab Edge and Block-Out Wood Formwork	6.79	
For Foundations >8' Below Grade, Add				1.24	
For Curved Formwork, Add				2.48	
For Up To 250, Add				1.28	
03 11 13 00-0010	LF		>6" To 12" High Slab Edge and Block-Out Wood Formwork	9.83	
For Foundations >8' Below Grade, Add				1.74	
For Curved Formwork, Add				3.47	
For Up To 250, Add				1.81	

03 Concrete**03 10 Concrete Forming and Accessories****03 11 Concrete Forming**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0011 SF >12" High Slab Edge and Block-Out Wood Formwork.....	12.53	
For Foundations >8' Below Grade, Add	2.24	
For Curved Formwork, Add	4.48	
For <1,000, Add	2.33	
03 11 13 00-0012 Column Wood Formwork (03 11 13 00-0001)		
03 11 13 00-0013 LF Up To 8" Square Column Wood Formwork.....	53.12	
03 11 13 00-0014 LF >8" To 12" Square Column Wood Formwork.....	77.53	
03 11 13 00-0015 LF >12" To 18" Square Column Wood Formwork.....	96.87	
03 11 13 00-0016 LF >18" To 24" Square Column Wood Formwork.....	137.95	
03 11 13 00-0017 LF >24" To 36" Square Column Wood Formwork.....	197.59	
03 11 13 00-0018 LF >36" To 48" Square Column Wood Formwork.....	260.13	
03 11 13 00-0019 Above Grade Wall Wood Formwork (03 11 13 00-0001)		
03 11 13 00-0020 SF Up To 8' High Above Grade Wall Wood Formwork.....	16.06	
For Curved Formwork, Add	5.82	
For <1,000, Add	3.01	
03 11 13 00-0021 SF >8' High Above Grade Wall Wood Formwork.....	19.01	
For Curved Formwork, Add	6.90	
For <1,000, Add	3.57	
03 11 13 00-0022 Elevated Beam Wood Formwork (03 11 13 00-0001)		
Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated beam.		
03 11 13 00-0023 SF Bottom of Elevated Beam Wood Formwork.....	20.83	
For Curved Formwork, Add	7.56	
For <1,000, Add	3.91	
03 11 13 00-0024 SF Vertical Sides of Elevated Beam Wood Formwork.....	13.28	
For Curved Formwork, Add	4.83	
For <1,000, Add	2.50	
03 11 13 00-0025 Elevated Slab Wood Formwork (03 11 13 00-0001)		
Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated slab.		
03 11 13 00-0026 SF Elevated Slab Wood Formwork.....	12.46	
For <1,000, Add	2.25	
03 11 13 00-0027 Metal Framed Formwork (03 11 13)		
Note: For all metal framed and metal form systems. Includes erecting, stripping, stacking, oiling, studs/walers, strongbacks, deadmen, supporting braces, turnbuckles, ties, and clips.		
03 11 13 00-0028 Foundation Metal Framed Formwork (03 11 13 00-0027)		
Note: For foundation work below or at grade.		
03 11 13 00-0029 SF Continuous Footings Foundation Metal Framed Formwork.....	7.76	
For <1,000, Add	1.44	
For Foundations >8' Below Grade, Add	1.39	
For Curved Formwork, Add	2.77	
03 11 13 00-0030 SF Pile Cap, Pier Or Spread Footings Foundation Metal Framed Formwork.....	8.62	
For <1,000, Add	1.61	
For Foundations >8' Below Grade, Add	1.55	
For Curved Formwork, Add	3.11	
03 11 13 00-0031 SF Mat Foundation Metal Framed Formwork.....	9.62	
For <1,000, Add	1.78	
For Foundations >8' Below Grade, Add	1.71	
For Curved Formwork, Add	3.43	
03 11 13 00-0032 SF Grade Beams Or Duct Bank Foundation Metal Framed Formwork.....	8.12	
For <1,000, Add	1.50	
For Foundations >8' Below Grade, Add	1.44	
For Curved Formwork, Add	2.88	
03 11 13 00-0033 SF Below Grade Walls Foundation Metal Framed Formwork.....	12.42	
Note: Excludes footing.		
For <1,000, Add	2.33	
For Foundations >8' Below Grade, Add	2.26	
For Curved Formwork, Add	4.52	
03 11 13 00-0034 Slab Edge And Block-Out Metal Framed Formwork (03 11 13 00-0027)		
03 11 13 00-0035 LF Up To 6" High Slab Edge and Block-Out Metal Framed Formwork.....	5.65	
For Foundations >8' Below Grade, Add	1.10	
For Curved Formwork, Add	2.21	
For <250, Add	1.11	
03 11 13 00-0036 LF >6" To 12" High Slab Edge and Block-Out Metal Framed Formwork.....	7.05	
For Foundations >8' Below Grade, Add	1.37	
For Curved Formwork, Add	2.74	
For <250, Add	1.38	
03 11 13 00-0037 SF >12" High Slab Edge and Block-Out Metal Framed Formwork.....	7.81	
For Foundations >8' Below Grade, Add	1.51	
For Curved Formwork, Add	3.03	
For <1,000, Add	1.53	



		Concrete	03	CS
		Concrete Forming and Accessories	03 10	
		Concrete Forming	03 11	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0038		Column Metal Framed Formwork (03 11 13 00-0027)		
03 11 13 00-0039		Square Columns (03 11 13 00-0038)		
03 11 13 00-0040	LF	Up To 12" Square Column Metal Framed Formwork	47.18	
03 11 13 00-0041	LF	>12" To 16" Square Column Metal Framed Formwork	56.93	
03 11 13 00-0042	LF	>16" To 20" Square Column Metal Framed Formwork	66.72	
03 11 13 00-0043	LF	>20" To 24" Square Column Metal Framed Formwork	79.76	
03 11 13 00-0044	LF	>24" To 30" Square Column Metal Framed Formwork	96.05	
03 11 13 00-0045	LF	>30" To 36" Square Column Metal Framed Formwork	115.26	
03 11 13 00-0046	LF	>36" To 48" Square Column Metal Framed Formwork	147.84	
03 11 13 00-0047	LF	>48" To 60" Square Column Metal Framed Formwork	182.25	
03 11 13 00-0048		Round Columns (03 11 13 00-0038)		
03 11 13 00-0049	LF	Up To 12" Diameter Column Metal Formwork	44.27	
03 11 13 00-0050	LF	>12" To 16" Diameter Column Metal Formwork	49.41	
03 11 13 00-0051	LF	>16" To 20" Diameter Column Metal Formwork	56.88	
03 11 13 00-0052	LF	>20" To 24" Diameter Column Metal Formwork	66.64	
03 11 13 00-0053	LF	>24" To 30" Diameter Column Metal Formwork	78.90	
03 11 13 00-0054	LF	>30" To 36" Diameter Column Metal Formwork	90.52	
03 11 13 00-0055	LF	>36" To 48" Diameter Column Metal Formwork	116.54	
03 11 13 00-0056	LF	>48" To 60" Diameter Column Metal Formwork	150.11	
03 11 13 00-0057		Above Grade Wall Metal Framed Formwork (03 11 13 00-0027)		
03 11 13 00-0058	SF	Up to 8' High Above Grade Wall Metal Framed Formwork	7.55	
		For Curved Formwork, Add	2.57	
		For <1,000, Add	1.36	
03 11 13 00-0059	SF	>8' High Above Grade Wall Metal Framed Formwork	9.18	
		For Curved Formwork, Add	3.09	
		For <1,000, Add	1.64	
03 11 13 00-0060		Elevated Beam Metal Framed Formwork (03 11 13 00-0027)		
		Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated beam.		
03 11 13 00-0061	SF	Bottom of Elevated Beam Metal Framed Formwork	7.60	
		For Curved Formwork, Add	2.40	
		For <1,000, Add	1.31	
03 11 13 00-0062	SF	Vertical Sides of Elevated Beam Metal Framed Formwork	5.60	
		For Curved Formwork, Add	1.87	
		For <1,000, Add	1.00	
03 11 13 00-0063		Elevated Slab Metal Framed Formwork (03 11 13 00-0027)		
		Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated slab.		
03 11 13 00-0064	SF	Elevated Slab Metal Framed Formwork	10.46	
		For <1,000, Add	1.59	
03 11 13 00-0065		Fiber Tube Formwork (03 11 13)		
		Note: Includes all supporting braces, erecting, aligning, stripping, turnbuckles, ties and clips.		
03 11 13 00-0066		Round Column Fiber Tube Formwork (03 11 13 00-0065)		
03 11 13 00-0067	LF	6" Diameter Round Fiber Tube Formwork	19.94	
		For Plastic Lined, Add	0.72	
		For Columns >12' In Length, Add	1.99	
03 11 13 00-0068	LF	8" Diameter Round Fiber Tube Formwork	21.02	
		For Plastic Lined, Add	0.85	
		For Columns >12' In Length, Add	2.10	
03 11 13 00-0069	LF	10" Diameter Round Fiber Tube Formwork	23.21	
		For Plastic Lined, Add	0.98	
		For Columns >12' In Length, Add	2.32	
03 11 13 00-0070	LF	12" Diameter Round Fiber Tube Formwork	27.35	
		For Plastic Lined, Add	1.40	
		For Columns >12' In Length, Add	2.74	
03 11 13 00-0071	LF	14" Diameter Round Fiber Tube Formwork	30.89	
		For Plastic Lined, Add	1.91	
		For Columns >12' In Length, Add	3.09	
03 11 13 00-0072	LF	16" Diameter Round Fiber Tube Formwork	33.44	
		For Plastic Lined, Add	2.41	
		For Columns >12' In Length, Add	3.34	
03 11 13 00-0073	LF	18" Diameter Round Fiber Tube Formwork	35.13	
		For Plastic Lined, Add	2.62	
		For Columns >12' In Length, Add	3.51	
03 11 13 00-0074	LF	20" Diameter Round Fiber Tube Formwork	38.27	
		For Plastic Lined, Add	3.27	
		For Columns >12' In Length, Add	3.83	
03 11 13 00-0075	LF	22" Diameter Round Fiber Tube Formwork	41.89	
		For Plastic Lined, Add	3.94	
		For Columns >12' In Length, Add	4.19	
03 11 13 00-0076	LF	24" Diameter Round Fiber Tube Formwork	45.52	
		For Plastic Lined, Add	4.62	
		For Columns >12' In Length, Add	4.55	

03 Concrete**03 10 Concrete Forming and Accessories****03 11 Concrete Forming**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0077 LF 26" Diameter Round Fiber Tube Formwork For Plastic Lined, Add For Columns >12' In Length, Add	47.46 5.04 4.75	
03 11 13 00-0078 LF 28" Diameter Round Fiber Tube Formwork For Plastic Lined, Add For Columns >12' In Length, Add	50.46 5.78 5.05	
03 11 13 00-0079 LF 30" Diameter Round Fiber Tube Formwork For Plastic Lined, Add For Columns >12' In Length, Add	53.69 6.58 5.37	
03 11 13 00-0080 LF 36" Diameter Round Fiber Tube Formwork For Plastic Lined, Add For Columns >12' In Length, Add	65.13 9.42 6.51	
03 11 13 00-0081 LF 42" Diameter Round Fiber Tube Formwork For Plastic Lined, Add For Columns >12' In Length, Add	88.49 16.00 8.85	
03 11 13 00-0082 LF 48" Diameter Round Fiber Tube Formwork For Plastic Lined, Add For Columns >12' In Length, Add	105.31 20.62 10.53	
03 11 13 00-0083 LF 54" Diameter Round Fiber Tube Formwork For Plastic Lined, Add For Columns >12' In Length, Add	174.46 40.67 17.45	
03 11 13 00-0084 LF 60" Diameter Round Fiber Tube Formwork For Plastic Lined, Add For Columns >12' In Length, Add	193.83 45.96 19.38	
03 11 13 00-0085 Accessories For Formwork (03 11 13)		
03 11 13 00-0086 Keyway Forms, All Materials (03 11 13 00-0085)		
03 11 13 00-0087 LF 2" x 4" To 2" x 6" Keyway Forms for Concrete Formwork, All Materials	2.45	
03 11 13 00-0088 Chamfer Strips, All Materials (03 11 13 00-0085)		
03 11 13 00-0089 LF 1/2" Wide Chamfer Strips for Concrete Formwork, All Materials.....	2.59	
03 11 13 00-0090 LF 3/4" Wide Chamfer Strips for Concrete Formwork, All Materials.....	3.02	
03 11 13 00-0091 LF 1" Wide Chamfer Strips for Concrete Formwork, All Materials.....	3.49	
03 11 13 00-0092 Strip Out Reglets For Concrete Formwork (03 11 13 00-0085)		
03 11 13 00-0093 LF 24 To 26 Gauge Galvanized Steel, Strip Out Reglets For Concrete Formwork	12.70	
03 11 13 00-0094 Sleeves And Chases, Plastic Or Sheet Metal (03 11 13 00-0085)		
03 11 13 00-0095 EA 2" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	15.39	
03 11 13 00-0096 EA 4" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	19.04	
03 11 13 00-0097 EA 6" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	23.06	
03 11 13 00-0098 EA 8" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	26.96	
03 11 13 00-0099 EA 12" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	34.97	
03 11 13 00-0100 EA 18" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal	82.86	
03 11 16 Architectural Cast-In-Place Concrete Forming (03 11)		
03 11 16 13 Concrete Form Liners (03 11 16)		
03 11 16 13-0001 Concrete Form Liners (03 11 16 13)		
03 11 16 13-0002 SF Various Patterns And Textures, 1 Use, Concrete Form Liner, Add To Formwork.....	6.35	
03 11 16 13-0003 SF Beveled Edge, Rusticated Concrete Finish, 1 Use, Concrete Form Liner, Add To Formwork	8.02	
03 11 16 13-0004 SF Square Edge, Rusticated Concrete Finish, 1 Use, Concrete Form Liner, Add To Formwork.....	10.49	
03 11 23 Permanent Stair Forming (03 11)		
03 11 23 00-0001 Stairway Wood Formwork (03 11 23)		
03 11 23 00-0002 SF Cast On Grade Stairway Wood Formwork..... For Curved Formwork, Add For <1,000, Add	20.09 7.65 3.89	
03 11 23 00-0003 SF Elevated Stairway Wood Formwork..... Note: Includes adjustable column supports and bracing lumber up to 14' for bottom of elevated stair. For Curved Formwork, Add For <1,000, Add	39.77 14.95 7.63	
03 11 23 00-0004 Stairway Metal Framed Formwork (03 11 23)		
03 11 23 00-0005 SF Cast On Grade Stairway Metal Framed Formwork For Curved Formwork, Add For <1,000, Add	16.37 6.24 3.17	
03 11 23 00-0006 SF Elevated Stairway Metal Framed Formwork Note: Includes adjustable column supports and bracing lumber up to 14' for bottom of elevated stair. For Curved Formwork, Add For <1,000, Add	30.45 11.59 5.89	



		Concrete	03	CS
		Concrete Forming and Accessories	03 10	
		Concrete Accessories	03 15	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

03 15 Concrete Accessories (03 10)

03 15 13 Waterstops (03 15)

03 15 13 13 Non-Expanding Waterstops (03 15 13)

03 15 13 13-0001 Polyvinyl Chloride (PVC) Waterstops (03 15 13 13)

03 15 13 13-0002	LF	3/16" Thick x 4" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	9.95	
03 15 13 13-0003	LF	3/16" Thick x 6" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	11.29	
03 15 13 13-0004	LF	3/16" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop With Center Bulb	13.86	
03 15 13 13-0005	LF	3/8" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop With Center Bulb	15.34	
03 15 13 13-0006	LF	1/2" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	24.14	
03 15 13 13-0007	LF	3/16" Thick x 6" Wide Dumbbell Polyvinyl Chloride (PVC) Waterstop	11.55	
03 15 13 13-0008	LF	3/8" Thick x 6" Wide Dumbbell Polyvinyl Chloride (PVC) Waterstop	14.26	
03 15 13 13-0009	LF	3/8" Thick x 9" Wide Plain Polyvinyl Chloride (PVC) Waterstop	26.57	
03 15 13 13-0010	LF	3/8" Thick x 9" Wide Plain Polyvinyl Chloride (PVC) Waterstop With Center Bulb	20.53	

03 15 13 13-0011 Rubber Waterstops (03 15 13 13)

03 15 13 13-0012	LF	3/8" Thick x 6" Wide Rubber Dumbbell Waterstop	10.44	
03 15 13 13-0013	LF	3/8" Thick x 9" Wide Rubber Dumbbell Waterstop	11.94	
03 15 13 13-0014	LF	1/4" Thick x 6" Wide Rubber Waterstop, With Center Bulb	10.78	
03 15 13 13-0015	LF	1/4" Thick x 9" Wide Rubber Waterstop, With Center Bulb	14.60	
03 15 13 13-0016	LF	3/8" Thick x 6" Wide Rubber Waterstop, With Center Bulb	12.28	
03 15 13 13-0017	LF	3/8" Thick x 9" Wide Rubber Waterstop, With Center Bulb	15.57	

03 15 13 16 Expanding Waterstops (03 15 13)

03 15 13 16-0001 Bentonite Waterstops (03 15 13 16)

03 15 13 16-0002	LF	3/4" x 3/8" Bentonite Waterstop	9.03	
03 15 13 16-0003	LF	1-1/4" x 1/2" Bentonite Waterstop	14.18	
03 15 13 16-0004	LF	1" x 3/4" Bentonite Waterstop	16.01	
03 15 13 16-0005	LF	1" x 1" Bentonite Waterstop	18.30	

03 15 16 Concrete Construction Joints (03 15)

03 15 16 00-0001 Poured Expansion Joint (03 15 16)

03 15 16 00-0002	LF	1/2" x 1" Plain Asphalt Expansion Joint, Poured	3.14	0.85
For Installation In Walls, Add			1.43	
03 15 16 00-0003	LF	1" x 2" Plain Asphalt Expansion Joint, Poured	7.12	0.85
For Installation In Walls, Add			1.61	
03 15 16 00-0004	LF	1/2" x 1" Liquid Neoprene Expansion Joint, Poured, Cold Applied	2.85	0.85
For Installation In Walls, Add			1.43	
03 15 16 00-0005	LF	1" x 2" Liquid Neoprene Expansion Joint, Poured, Cold Applied	5.93	0.85
For Installation In Walls, Add			1.61	
03 15 16 00-0006	LF	1/2" x 1" Polyurethane Expansion Joint, Poured, 2 Parts	3.90	0.85
For Installation In Walls, Add			1.61	
03 15 16 00-0007	LF	1" x 2" Polyurethane Expansion Joint, Poured, 2 Parts	6.96	0.85
For Installation In Walls, Add			2.61	
03 15 16 00-0008	LF	1/2" x 1" Rubberized Asphalt Expansion Joint, Poured, Hot Or Cold Applied	3.50	0.85
For Installation In Walls, Add			1.43	
03 15 16 00-0009	LF	1/2" x 1" Rubberized Asphalt Expansion Joint, Poured, Hot Applied Fuel Resistant	4.32	0.85
For Installation In Walls, Add			1.43	
03 15 16 00-0010	LF	1" x 2" Rubberized Asphalt Expansion Joint, Poured, Hot Applied Fuel Resistant	11.36	0.85
For Installation In Walls, Add			1.61	

03 15 16 00-0011 Premolded Expansion Joints (03 15 16)

03 15 16 00-0012 Asphalt Saturated Fiber, Premolded Expansion Joints (03 15 16 00-0011)

03 15 16 00-0013	LF	1/4" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint	2.59	1.21
03 15 16 00-0014	LF	1/4" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	2.95	1.27
03 15 16 00-0015	LF	1/4" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	3.17	1.33
03 15 16 00-0016	LF	1/4" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint	3.41	1.39
03 15 16 00-0017	LF	3/8" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint	2.81	1.21
03 15 16 00-0018	LF	3/8" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	3.12	1.27
03 15 16 00-0019	LF	3/8" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	3.48	1.33
03 15 16 00-0020	LF	3/8" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint	4.00	1.39
03 15 16 00-0021	LF	1/2" x 2" Asphalt Saturated Fiber, Premolded Expansion Joint	2.55	1.15
03 15 16 00-0022	LF	1/2" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint	2.77	1.21
03 15 16 00-0023	LF	1/2" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	3.04	1.27
03 15 16 00-0024	LF	1/2" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	3.25	1.33
03 15 16 00-0025	LF	1/2" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint	3.52	1.39
03 15 16 00-0026	LF	1/2" x 8" Asphalt Saturated Fiber, Premolded Expansion Joint	3.89	1.45
03 15 16 00-0027	LF	1/2" x 10" Asphalt Saturated Fiber, Premolded Expansion Joint	4.18	1.51
03 15 16 00-0028	LF	1/2" x 12" Asphalt Saturated Fiber, Premolded Expansion Joint	4.66	1.57
03 15 16 00-0029	LF	3/4" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	3.05	1.27
03 15 16 00-0030	LF	3/4" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	3.47	1.33
03 15 16 00-0031	LF	3/4" x 8" Asphalt Saturated Fiber, Premolded Expansion Joint	4.21	1.45
03 15 16 00-0032	SF	1" Asphalt Saturated Fiber, Premolded Expansion Joint	7.17	1.99

03 Concrete**03 10 Concrete Forming and Accessories****03 15 Concrete Accessories**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

03 15 16 00-0033 Cork, Premolded Expansion Joints (03 15 16 00-0011)				
03 15 16 00-0034	LF	1/2" x 4" Cork, Premolded Expansion Joint	4.26	1.27
03 15 16 00-0035	LF	1/2" x 6" Cork, Premolded Expansion Joint	4.78	1.39
03 15 16 00-0036	LF	1/2" x 8" Cork, Premolded Expansion Joint	5.18	1.45
03 15 16 00-0037	LF	1/2" x 10" Cork, Premolded Expansion Joint	7.14	1.51
03 15 16 00-0038	LF	1/2" x 12" Cork, Premolded Expansion Joint	7.59	1.57
03 15 16 00-0039	SF	1/2" Cork, Premolded Expansion Joint	8.44	1.99
03 15 16 00-0040	SF	3/4" Cork, Premolded Expansion Joint	9.72	1.99
03 15 16 00-0041	SF	1" Cork, Premolded Expansion Joint	10.30	1.99
03 15 16 00-0042 Flexible Polyethylene Foam, Premolded Expansion Joints (03 15 16 00-0011)				
03 15 16 00-0043	LF	1/4" x 4" Flexible Polyethylene Foam, Premolded Expansion Joint	2.81	1.27
03 15 16 00-0044	LF	1/4" x 5" Flexible Polyethylene Foam, Premolded Expansion Joint	2.93	1.33
03 15 16 00-0045	LF	1/4" x 6" Flexible Polyethylene Foam, Premolded Expansion Joint	3.09	1.39
03 15 16 00-0046	LF	1/4" x 8" Flexible Polyethylene Foam, Premolded Expansion Joint	3.55	1.45
03 15 16 00-0047	LF	1/2" x 4" Flexible Polyethylene Foam, Premolded Expansion Joint	2.88	1.27
03 15 16 00-0048	LF	1/2" x 5" Flexible Polyethylene Foam, Premolded Expansion Joint	3.01	1.33
03 15 16 00-0049	LF	1/2" x 6" Flexible Polyethylene Foam, Premolded Expansion Joint	3.14	1.39
03 15 16 00-0050	LF	1/2" x 8" Flexible Polyethylene Foam, Premolded Expansion Joint	3.43	1.45
03 15 16 00-0051 Zip Strip, Premolded Expansion Joints (03 15 16 00-0011)				
03 15 16 00-0052	LF	1" Zip Strip, Premolded Expansion Joint	2.84	1.27
03 15 16 00-0053	LF	1-1/2" Zip Strip, Premolded Expansion Joint	3.08	1.33
03 15 16 00-0054	LF	2" Zip Strip, Premolded Expansion Joint	3.42	1.45
03 15 16 00-0055 Sponge Rubber, Premolded Expansion Joints (03 15 16 00-0011)				
03 15 16 00-0056	LF	1/2" x 4" Sponge Rubber, Premolded Expansion Joint	4.73	1.21
03 15 16 00-0057	LF	1/2" x 6" Sponge Rubber, Premolded Expansion Joint	5.66	1.21
03 15 16 00-0058 Asphalt Felt Control Joints Or Bond Breaker (03 15 16)				
03 15 16 00-0059	SF	Asphalt Felt Control Joint, 30 LB Felt Bond Breaker	1.36	0.91
		>1,250, Deduct	-0.07	
03 15 16 00-0060	SF	Asphalt Felt Control Joint, 15 LB Felt Bond Breaker	1.29	0.91
		>1,250, Deduct	-0.06	
03 15 16 00-0061 Keyed Cold Expansion And Control Joints (03 15 16)				
03 15 16 00-0062 24 Gauge Galvanized Steel With Stakes (03 15 16 00-0061)				
03 15 16 00-0063	LF	24 Gauge Galvanized Steel Keyed Joint, 3-1/2" Cold Expansion Or Control Joint	7.06	
03 15 16 00-0064	LF	24 Gauge Galvanized Steel Keyed Joint, 4-1/2" Cold Expansion Or Control Joint	7.21	
03 15 16 00-0065	LF	24 Gauge Galvanized Steel Keyed Joint, 5-1/2" Cold Expansion Or Control Joint	7.48	
03 15 16 00-0066	LF	24 Gauge Galvanized Steel Keyed Joint, 7-1/2" Cold Expansion Or Control Joint	7.98	
03 15 16 00-0067	LF	24 Gauge Galvanized Steel Keyed Joint, 9-1/2" Cold Expansion Or Control Joint	10.22	
03 15 19 Cast-In Concrete Anchors (03 15)				
03 15 19 00-0001 Cast In Place Anchors (03 15 19)				
Note: For cast in place installations. Includes nut and washer.				
03 15 19 00-0002 J-Type Anchor Bolts (03 15 19 00-0001)				
See CSI section 03 11 13 00-0002 for template.				
03 15 19 00-0003 1/2" And 5/8" Diameter (03 15 19 00-0002)				
03 15 19 00-0004	EA	1/2" Diameter x 6" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	10.55	
		For Galvanized, Add	1.85	
		For Stainless Steel, Add	12.92	
		For >10 To 50, Deduct	-0.34	
		For >50 To 100, Deduct	-0.78	
		For >100, Deduct	-1.56	
03 15 19 00-0005	EA	1/2" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	12.09	
		For Galvanized, Add	2.35	
		For Stainless Steel, Add	16.45	
		For >10 To 50, Deduct	-0.37	
		For >50 To 100, Deduct	-0.86	
		For >100, Deduct	-1.71	
03 15 19 00-0006	EA	1/2" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	14.48	
		For Galvanized, Add	3.24	
		For Stainless Steel, Add	22.68	
		For >10 To 50, Deduct	-0.40	
		For >50 To 100, Deduct	-0.96	
		For >100, Deduct	-1.92	



		Concrete	03	CS
		Concrete Forming and Accessories	03 10	
		Concrete Accessories	03 15	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
03 15 19 00-0007	EA 5/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	16.46		
	For Galvanized, Add	4.23		
	For Stainless Steel, Add	29.61		
	For >10 To 50, Deduct	-0.40		
	For >50 To 100, Deduct	-1.01		
	For >100, Deduct	-2.02		
03 15 19 00-0008	EA 5/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	20.03		
	For Galvanized, Add	5.65		
	For Stainless Steel, Add	39.52		
	For >10 To 50, Deduct	-0.44		
	For >50 To 100, Deduct	-1.16		
	For >100, Deduct	-2.31		
03 15 19 00-0009	EA 5/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	22.51		
	For Galvanized, Add	6.46		
	For Stainless Steel, Add	45.19		
	For >10 To 50, Deduct	-0.48		
	For >50 To 100, Deduct	-1.28		
	For >100, Deduct	-2.57		
03 15 19 00-0010 3/4" And 7/8" Diameter (03 15 19 00-0002)				
03 15 19 00-0011	EA 3/4" Diameter x 8" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	22.42		
	For Galvanized, Add	6.41		
	For Stainless Steel, Add	44.87		
	For >10 To 50, Deduct	-0.48		
	For >50 To 100, Deduct	-1.28		
	For >100, Deduct	-2.56		
03 15 19 00-0012	EA 3/4" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	25.61		
	For Galvanized, Add	7.47		
	For Stainless Steel, Add	52.29		
	For >10 To 50, Deduct	-0.53		
	For >50 To 100, Deduct	-1.44		
	For >100, Deduct	-2.88		
03 15 19 00-0013	EA 3/4" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	31.14		
	For Galvanized, Add	9.57		
	For Stainless Steel, Add	66.96		
	For >10 To 50, Deduct	-0.60		
	For >50 To 100, Deduct	-1.68		
	For >100, Deduct	-3.36		
03 15 19 00-0014	EA 3/4" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	37.56		
	For Galvanized, Add	12.06		
	For Stainless Steel, Add	84.39		
	For >10 To 50, Deduct	-0.67		
	For >50 To 100, Deduct	-1.95		
	For >100, Deduct	-3.90		
03 15 19 00-0015	EA 7/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	29.53		
	For Galvanized, Add	8.76		
	For Stainless Steel, Add	61.32		
	For >10 To 50, Deduct	-0.60		
	For >50 To 100, Deduct	-1.64		
	For >100, Deduct	-3.28		
03 15 19 00-0016	EA 7/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	34.70		
	For Galvanized, Add	10.49		
	For Stainless Steel, Add	73.43		
	For >10 To 50, Deduct	-0.69		
	For >50 To 100, Deduct	-1.90		
	For >100, Deduct	-3.79		
03 15 19 00-0017	EA 7/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	43.97		
	For Galvanized, Add	13.98		
	For Stainless Steel, Add	97.86		
	For >10 To 50, Deduct	-0.80		
	For >50 To 100, Deduct	-2.30		
	For >100, Deduct	-4.60		
03 15 19 00-0018 1" And 1-1/8" Diameter (03 15 19 00-0002)				
03 15 19 00-0019	EA 1" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	36.38		
	For Galvanized, Add	11.33		
	For Stainless Steel, Add	79.31		
	For >10 To 50, Deduct	-0.69		
	For >50 To 100, Deduct	-1.94		
	For >100, Deduct	-3.88		
03 15 19 00-0020	EA 1" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	43.28		
	For Galvanized, Add	13.64		
	For Stainless Steel, Add	95.45		
	For >10 To 50, Deduct	-0.80		
	For >50 To 100, Deduct	-2.28		
	For >100, Deduct	-4.57		
03 15 19 00-0021	EA 1" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	53.39		
	For Galvanized, Add	17.09		
	For Stainless Steel, Add	119.63		
	For >10 To 50, Deduct	-0.96		
	For >50 To 100, Deduct	-2.78		
	For >100, Deduct	-5.55		

03 Concrete**03 10 Concrete Forming and Accessories****03 15 Concrete Accessories**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0022	EA	1" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	65.78	
		For Galvanized, Add	20.89	
		For Stainless Steel, Add	146.20	
		For >10 To 50, Deduct	-1.20	
		For >50 To 100, Deduct	-3.45	
		For >100, Deduct	-6.89	
03 15 19 00-0023	EA	1-1/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	43.39	
		For Galvanized, Add	14.17	
		For Stainless Steel, Add	99.16	
		For >10 To 50, Deduct	-0.75	
		For >50 To 100, Deduct	-2.21	
		For >100, Deduct	-4.43	
03 15 19 00-0024	EA	1-1/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	51.66	
		For Galvanized, Add	17.05	
		For Stainless Steel, Add	119.32	
		For >10 To 50, Deduct	-0.88	
		For >50 To 100, Deduct	-2.61	
		For >100, Deduct	-5.22	
03 15 19 00-0025	EA	1-1/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	63.82	
		For Galvanized, Add	21.37	
		For Stainless Steel, Add	149.56	
		For >10 To 50, Deduct	-1.05	
		For >50 To 100, Deduct	-3.18	
		For >100, Deduct	-6.35	
03 15 19 00-0026	EA	1-1/8" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	78.57	
		For Galvanized, Add	26.11	
		For Stainless Steel, Add	182.74	
		For >10 To 50, Deduct	-1.32	
		For >50 To 100, Deduct	-3.94	
		For >100, Deduct	-7.88	
03 15 19 00-0027		1-1/4" And 1-1/2" Diameter (03 15 19 00-0002)	52.09	
03 15 19 00-0028	EA	1-1/4" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	52.09	
		For Galvanized, Add	17.70	
		For Stainless Steel, Add	123.90	
		For >10 To 50, Deduct	-0.83	
		For >50 To 100, Deduct	-2.55	
		For >100, Deduct	-5.11	
03 15 19 00-0029	EA	1-1/4" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	62.08	
		For Galvanized, Add	21.31	
		For Stainless Steel, Add	149.17	
		For >10 To 50, Deduct	-0.97	
		For >50 To 100, Deduct	-3.01	
		For >100, Deduct	-6.02	
03 15 19 00-0030	EA	1-1/4" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	76.79	
		For Galvanized, Add	26.72	
		For Stainless Steel, Add	187.01	
		For >10 To 50, Deduct	-1.17	
		For >50 To 100, Deduct	-3.67	
		For >100, Deduct	-7.34	
03 15 19 00-0031	EA	1-1/4" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	94.44	
		For Galvanized, Add	32.63	
		For Stainless Steel, Add	228.38	
		For >10 To 50, Deduct	-1.46	
		For >50 To 100, Deduct	-4.55	
		For >100, Deduct	-9.10	
03 15 19 00-0032	EA	1-1/2" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	62.97	
		For Galvanized, Add	22.13	
		For Stainless Steel, Add	154.91	
		For >10 To 50, Deduct	-0.94	
		For >50 To 100, Deduct	-2.98	
		For >100, Deduct	-5.96	
03 15 19 00-0033	EA	1-1/2" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	75.10	
		For Galvanized, Add	26.64	
		For Stainless Steel, Add	186.45	
		For >10 To 50, Deduct	-1.09	
		For >50 To 100, Deduct	-3.51	
		For >100, Deduct	-7.03	
03 15 19 00-0034	EA	1-1/2" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	93.00	
		For Galvanized, Add	33.40	
		For Stainless Steel, Add	233.80	
		For >10 To 50, Deduct	-1.31	
		For >50 To 100, Deduct	-4.29	
		For >100, Deduct	-8.58	
03 15 19 00-0035	EA	1-1/2" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt	114.31	
		For Galvanized, Add	40.79	
		For Stainless Steel, Add	285.50	
		For >10 To 50, Deduct	-1.64	
		For >50 To 100, Deduct	-5.31	
		For >100, Deduct	-10.63	

03 15 19 00-0036 L-Type Anchor Bolts (03 15 19 00-0001)
See CSI section 03 11 13 00-0002 for template.



		Concrete	03	CS
		Concrete Forming and Accessories	03 10	
		Concrete Accessories	03 15	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST
03 15 19 00-0037 3/4" And 7/8" Diameter (03 15 19 00-0036)				
03 15 19 00-0038	EA 3/4" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	20.47		
	For Galvanized, Add	4.90		
	For Stainless Steel, Add	34.30		
	For >10 To 50, Deduct	-0.53		
	For >50 To 100, Deduct	-1.31		
	For >100, Deduct	-2.62		
03 15 19 00-0039	EA 3/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	24.11		
	For Galvanized, Add	6.05		
	For Stainless Steel, Add	42.35		
	For >10 To 50, Deduct	-0.60		
	For >50 To 100, Deduct	-1.50		
	For >100, Deduct	-3.01		
03 15 19 00-0040	EA 3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	27.60		
	For Galvanized, Add	6.94		
	For Stainless Steel, Add	48.58		
	For >10 To 50, Deduct	-0.69		
	For >50 To 100, Deduct	-1.72		
	For >100, Deduct	-3.44		
03 15 19 00-0041	EA 3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	30.42		
	For Galvanized, Add	7.21		
	For Stainless Steel, Add	50.44		
	For >10 To 50, Deduct	-0.80		
	For >50 To 100, Deduct	-1.96		
	For >100, Deduct	-3.92		
03 15 19 00-0042	EA 3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	34.33		
	For Galvanized, Add	7.56		
	For Stainless Steel, Add	52.92		
	For >10 To 50, Deduct	-0.96		
	For >50 To 100, Deduct	-2.30		
	For >100, Deduct	-4.60		
03 15 19 00-0043	EA 7/8" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	24.16		
	For Galvanized, Add	6.08		
	For Stainless Steel, Add	42.53		
	For >10 To 50, Deduct	-0.60		
	For >50 To 100, Deduct	-1.50		
	For >100, Deduct	-3.01		
03 15 19 00-0044	EA 7/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	27.87		
	For Galvanized, Add	7.08		
	For Stainless Steel, Add	49.53		
	For >10 To 50, Deduct	-0.69		
	For >50 To 100, Deduct	-1.73		
	For >100, Deduct	-3.45		
03 15 19 00-0045	EA 7/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	32.24		
	For Galvanized, Add	8.12		
	For Stainless Steel, Add	56.81		
	For >10 To 50, Deduct	-0.80		
	For >50 To 100, Deduct	-2.01		
	For >100, Deduct	-4.01		
03 15 19 00-0046	EA 7/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	36.06		
	For Galvanized, Add	8.43		
	For Stainless Steel, Add	58.98		
	For >10 To 50, Deduct	-0.96		
	For >50 To 100, Deduct	-2.34		
	For >100, Deduct	-4.68		
03 15 19 00-0047	EA 7/8" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	41.71		
	For Galvanized, Add	8.85		
	For Stainless Steel, Add	61.95		
	For >10 To 50, Deduct	-1.20		
	For >50 To 100, Deduct	-2.84		
	For >100, Deduct	-5.69		
03 15 19 00-0048 1" And 1-1/8" Diameter (03 15 19 00-0036)				
03 15 19 00-0049	EA 1" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	29.30		
	For Galvanized, Add	7.79		
	For Stainless Steel, Add	54.53		
	For >10 To 50, Deduct	-0.69		
	For >50 To 100, Deduct	-1.76		
	For >100, Deduct	-3.52		
03 15 19 00-0050	EA 1" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	33.53		
	For Galvanized, Add	8.76		
	For Stainless Steel, Add	61.32		
	For >10 To 50, Deduct	-0.80		
	For >50 To 100, Deduct	-2.04		
	For >100, Deduct	-4.08		
03 15 19 00-0051	EA 1" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	38.80		
	For Galvanized, Add	9.80		
	For Stainless Steel, Add	68.57		
	For >10 To 50, Deduct	-0.96		
	For >50 To 100, Deduct	-2.41		
	For >100, Deduct	-4.82		

03 Concrete**03 10 Concrete Forming and Accessories****03 15 Concrete Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0052 EA 1" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	41.39	
For Galvanized, Add	10.26	
For Stainless Steel, Add	71.79	
For >10 To 50, Deduct	-1.04	
For >50 To 100, Deduct	-2.60	
For >100, Deduct	-5.20	
03 15 19 00-0053 EA 1" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	45.49	
For Galvanized, Add	10.74	
For Stainless Steel, Add	75.18	
For >10 To 50, Deduct	-1.20	
For >50 To 100, Deduct	-2.94	
For >100, Deduct	-5.88	
03 15 19 00-0054 EA 1" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	51.57	
For Galvanized, Add	12.45	
For Stainless Steel, Add	87.12	
For >10 To 50, Deduct	-1.33	
For >50 To 100, Deduct	-3.29	
For >100, Deduct	-6.58	
03 15 19 00-0055 EA 1" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	61.15	
For Galvanized, Add	14.57	
For Stainless Steel, Add	101.99	
For >10 To 50, Deduct	-1.60	
For >50 To 100, Deduct	-3.93	
For >100, Deduct	-7.86	
03 15 19 00-0056 EA 1-1/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	36.50	
For Galvanized, Add	10.25	
For Stainless Steel, Add	71.72	
For >10 To 50, Deduct	-0.80	
For >50 To 100, Deduct	-2.11	
For >100, Deduct	-4.23	
03 15 19 00-0057 EA 1-1/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	42.14	
For Galvanized, Add	11.47	
For Stainless Steel, Add	80.26	
For >10 To 50, Deduct	-0.96	
For >50 To 100, Deduct	-2.49	
For >100, Deduct	-4.99	
03 15 19 00-0058 EA 1-1/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	44.88	
For Galvanized, Add	12.00	
For Stainless Steel, Add	84.00	
For >10 To 50, Deduct	-1.04	
For >50 To 100, Deduct	-2.69	
For >100, Deduct	-5.38	
03 15 19 00-0059 1-1/4" And 1-3/8" Diameter (03 15 19 00-0036)	43.99	
03 15 19 00-0060 EA 1-1/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	43.99	
For Galvanized, Add	12.39	
For Stainless Steel, Add	86.73	
For >10 To 50, Deduct	-0.96	
For >50 To 100, Deduct	-2.54	
For >100, Deduct	-5.08	
03 15 19 00-0061 EA 1-1/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	53.01	
For Galvanized, Add	14.50	
For Stainless Steel, Add	101.50	
For >10 To 50, Deduct	-1.20	
For >50 To 100, Deduct	-3.13	
For >100, Deduct	-6.25	
03 15 19 00-0062 EA 1-1/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	58.12	
For Galvanized, Add	16.43	
For Stainless Steel, Add	114.98	
For >10 To 50, Deduct	-1.26	
For >50 To 100, Deduct	-3.35	
For >100, Deduct	-6.70	
03 15 19 00-0063 EA 1-1/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	63.77	
For Galvanized, Add	18.55	
For Stainless Steel, Add	129.82	
For >10 To 50, Deduct	-1.33	
For >50 To 100, Deduct	-3.60	
For >100, Deduct	-7.19	
03 15 19 00-0064 EA 1-1/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	70.35	
For Galvanized, Add	20.17	
For Stainless Steel, Add	141.19	
For >10 To 50, Deduct	-1.50	
For >50 To 100, Deduct	-4.01	
For >100, Deduct	-8.02	
03 15 19 00-0065 EA 1-1/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	77.50	
For Galvanized, Add	21.60	
For Stainless Steel, Add	151.20	
For >10 To 50, Deduct	-1.72	
For >50 To 100, Deduct	-4.51	
For >100, Deduct	-9.02	



		Concrete	03	CS
		Concrete Forming and Accessories	03 10	
		Concrete Accessories	03 15	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0066	EA	1-1/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	86.25		
		For Galvanized, Add	23.12		
		For Stainless Steel, Add	161.64		
		For >10 To 50, Deduct	-2.00		
		For >50 To 100, Deduct	-5.16		
		For >100, Deduct	-10.31		
03 15 19 00-0067	EA	1-1/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	99.15		
		For Galvanized, Add	25.56		
		For Stainless Steel, Add	178.92		
		For >10 To 50, Deduct	-2.40		
		For >50 To 100, Deduct	-6.08		
		For >100, Deduct	-12.16		
03 15 19 00-0068	EA	1-3/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	50.19		
		For Galvanized, Add	15.49		
		For Stainless Steel, Add	108.43		
		For >10 To 50, Deduct	-0.96		
		For >50 To 100, Deduct	-2.70		
		For >100, Deduct	-5.39		
03 15 19 00-0069	EA	1-3/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	60.27		
		For Galvanized, Add	18.13		
		For Stainless Steel, Add	126.91		
		For >10 To 50, Deduct	-1.20		
		For >50 To 100, Deduct	-3.31		
		For >100, Deduct	-6.62		
03 15 19 00-0070	EA	1-3/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	66.32		
		For Galvanized, Add	20.53		
		For Stainless Steel, Add	143.68		
		For >10 To 50, Deduct	-1.26		
		For >50 To 100, Deduct	-3.55		
		For >100, Deduct	-7.11		
03 15 19 00-0071	EA	1-3/8" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	73.03		
		For Galvanized, Add	23.18		
		For Stainless Steel, Add	162.23		
		For >10 To 50, Deduct	-1.33		
		For >50 To 100, Deduct	-3.83		
		For >100, Deduct	-7.65		
03 15 19 00-0072	EA	1-3/8" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	80.44		
		For Galvanized, Add	25.22		
		For Stainless Steel, Add	176.51		
		For >10 To 50, Deduct	-1.50		
		For >50 To 100, Deduct	-4.26		
		For >100, Deduct	-8.52		
03 15 19 00-0073	EA	1-3/8" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	88.31		
		For Galvanized, Add	27.01		
		For Stainless Steel, Add	189.04		
		For >10 To 50, Deduct	-1.72		
		For >50 To 100, Deduct	-4.78		
		For >100, Deduct	-9.56		
03 15 19 00-0074	EA	1-3/8" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	98.28		
		For Galvanized, Add	29.14		
		For Stainless Steel, Add	203.95		
		For >10 To 50, Deduct	-2.00		
		For >50 To 100, Deduct	-5.46		
		For >100, Deduct	-10.92		
03 15 19 00-0075	EA	1-3/8" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	111.95		
		For Galvanized, Add	31.96		
		For Stainless Steel, Add	223.72		
		For >10 To 50, Deduct	-2.40		
		For >50 To 100, Deduct	-6.40		
		For >100, Deduct	-12.80		
03 15 19 00-0076		1-1/2", 1-3/4", And 2" Diameter (03 15 19 00-0036)			
03 15 19 00-0077	EA	1-1/2" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	64.77		
		For Galvanized, Add	21.47		
		For Stainless Steel, Add	150.29		
		For >10 To 50, Deduct	-1.09		
		For >50 To 100, Deduct	-3.26		
		For >100, Deduct	-6.51		
03 15 19 00-0078	EA	1-1/2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	70.31		
		For Galvanized, Add	22.52		
		For Stainless Steel, Add	157.64		
		For >10 To 50, Deduct	-1.26		
		For >50 To 100, Deduct	-3.65		
		For >100, Deduct	-7.31		
03 15 19 00-0079	EA	1-1/2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	77.81		
		For Galvanized, Add	24.78		
		For Stainless Steel, Add	173.46		
		For >10 To 50, Deduct	-1.41		
		For >50 To 100, Deduct	-4.06		
		For >100, Deduct	-8.13		

03 Concrete**03 10 Concrete Forming and Accessories****03 15 Concrete Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0080 EA 1-1/2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	84.15	
For Galvanized, Add	27.07	
For Stainless Steel, Add	189.49	
For >10 To 50, Deduct	-1.50	
For >50 To 100, Deduct	-4.35	
For >100, Deduct	-8.71	
03 15 19 00-0081 EA 1-1/2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	90.74	
For Galvanized, Add	29.37	
For Stainless Steel, Add	205.56	
For >10 To 50, Deduct	-1.60	
For >50 To 100, Deduct	-4.67	
For >100, Deduct	-9.34	
03 15 19 00-0082 EA 1-1/2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	100.10	
For Galvanized, Add	31.58	
For Stainless Steel, Add	221.06	
For >10 To 50, Deduct	-1.85	
For >50 To 100, Deduct	-5.27	
For >100, Deduct	-10.55	
03 15 19 00-0083 EA 1-1/2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	111.98	
For Galvanized, Add	34.16	
For Stainless Steel, Add	239.12	
For >10 To 50, Deduct	-2.18	
For >50 To 100, Deduct	-6.07	
For >100, Deduct	-12.15	
03 15 19 00-0084 EA 1-1/2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	129.13	
For Galvanized, Add	37.89	
For Stainless Steel, Add	265.20	
For >10 To 50, Deduct	-2.67	
For >50 To 100, Deduct	-7.23	
For >100, Deduct	-14.46	
03 15 19 00-0085 EA 1-3/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	88.62	
For Galvanized, Add	32.31	
For Stainless Steel, Add	226.14	
For >10 To 50, Deduct	-1.20	
For >50 To 100, Deduct	-4.02	
For >100, Deduct	-8.03	
03 15 19 00-0086 EA 1-3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	92.70	
For Galvanized, Add	33.01	
For Stainless Steel, Add	231.07	
For >10 To 50, Deduct	-1.33	
For >50 To 100, Deduct	-4.32	
For >100, Deduct	-8.64	
03 15 19 00-0087 EA 1-3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	95.33	
For Galvanized, Add	33.54	
For Stainless Steel, Add	234.78	
For >10 To 50, Deduct	-1.41	
For >50 To 100, Deduct	-4.50	
For >100, Deduct	-9.00	
03 15 19 00-0088 EA 1-3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	107.48	
For Galvanized, Add	38.74	
For Stainless Steel, Add	271.15	
For >10 To 50, Deduct	-1.50	
For >50 To 100, Deduct	-4.94	
For >100, Deduct	-9.88	
03 15 19 00-0089 EA 1-3/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	123.73	
For Galvanized, Add	44.72	
For Stainless Steel, Add	313.01	
For >10 To 50, Deduct	-1.72	
For >50 To 100, Deduct	-5.67	
For >100, Deduct	-11.33	
03 15 19 00-0090 EA 1-3/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	130.62	
For Galvanized, Add	45.31	
For Stainless Steel, Add	317.14	
For >10 To 50, Deduct	-2.00	
For >50 To 100, Deduct	-6.27	
For >100, Deduct	-12.53	
03 15 19 00-0091 EA 1-3/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	145.88	
For Galvanized, Add	48.93	
For Stainless Steel, Add	342.48	
For >10 To 50, Deduct	-2.40	
For >50 To 100, Deduct	-7.25	
For >100, Deduct	-14.50	
03 15 19 00-0092 EA 1-3/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	165.40	
For Galvanized, Add	52.69	
For Stainless Steel, Add	368.83	
For >10 To 50, Deduct	-3.00	
For >50 To 100, Deduct	-8.64	
For >100, Deduct	-17.27	
03 15 19 00-0093 EA 2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	126.60	
For Galvanized, Add	49.18	
For Stainless Steel, Add	344.23	
For >10 To 50, Deduct	-1.41	
For >50 To 100, Deduct	-5.28	
For >100, Deduct	-10.57	



		Concrete	03	CS
		Concrete Forming and Accessories	03 10	
		Concrete Accessories	03 15	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0094	EA		2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	138.34	
			For Galvanized, Add	53.17	
			For Stainless Steel, Add	372.16	
			For >10 To 50, Deduct	-1.60	
			For >50 To 100, Deduct	-5.86	
			For >100, Deduct	-11.72	
03 15 19 00-0095	EA		2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	152.84	
			For Galvanized, Add	57.95	
			For Stainless Steel, Add	405.65	
			For >10 To 50, Deduct	-1.85	
			For >50 To 100, Deduct	-6.59	
			For >100, Deduct	-13.18	
03 15 19 00-0096	EA		2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	166.40	
			For Galvanized, Add	61.37	
			For Stainless Steel, Add	429.59	
			For >10 To 50, Deduct	-2.18	
			For >50 To 100, Deduct	-7.43	
			For >100, Deduct	-14.87	
03 15 19 00-0097	EA		2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	179.92	
			For Galvanized, Add	65.95	
			For Stainless Steel, Add	461.62	
			For >10 To 50, Deduct	-2.40	
			For >50 To 100, Deduct	-8.10	
			For >100, Deduct	-16.20	
03 15 19 00-0098	EA		2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	194.20	
			For Galvanized, Add	70.42	
			For Stainless Steel, Add	492.94	
			For >10 To 50, Deduct	-2.67	
			For >50 To 100, Deduct	-8.86	
			For >100, Deduct	-17.71	
03 15 19 00-0099	EA		2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	219.85	
			For Galvanized, Add	75.63	
			For Stainless Steel, Add	529.38	
			For >10 To 50, Deduct	-3.43	
			For >50 To 100, Deduct	-10.64	
			For >100, Deduct	-21.28	
03 15 19 00-0100	EA		2" Diameter x 66" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	234.88	
			For Galvanized, Add	83.14	
			For Stainless Steel, Add	581.98	
			For >10 To 50, Deduct	-3.43	
			For >50 To 100, Deduct	-11.02	
			For >100, Deduct	-22.03	
03 15 19 00-0101	EA		2" Diameter x 72" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	264.88	
			For Galvanized, Add	92.42	
			For Stainless Steel, Add	646.94	
			For >10 To 50, Deduct	-4.00	
			For >50 To 100, Deduct	-12.63	
			For >100, Deduct	-25.25	
03 15 19 00-0102 2-1/2" And 2-3/4" Diameter (03 15 19 00-0036)					
03 15 19 00-0103	EA		2-1/2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	246.76	
			For Galvanized, Add	109.26	
			For Stainless Steel, Add	764.79	
			For >10 To 50, Deduct	-1.41	
			For >50 To 100, Deduct	-8.29	
			For >100, Deduct	-16.58	
03 15 19 00-0104	EA		2-1/2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	260.41	
			For Galvanized, Add	114.20	
			For Stainless Steel, Add	799.40	
			For >10 To 50, Deduct	-1.60	
			For >50 To 100, Deduct	-8.91	
			For >100, Deduct	-17.82	
03 15 19 00-0105	EA		2-1/2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	284.64	
			For Galvanized, Add	123.85	
			For Stainless Steel, Add	866.95	
			For >10 To 50, Deduct	-1.85	
			For >50 To 100, Deduct	-9.89	
			For >100, Deduct	-19.77	
03 15 19 00-0106	EA		2-1/2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	304.70	
			For Galvanized, Add	130.52	
			For Stainless Steel, Add	913.64	
			For >10 To 50, Deduct	-2.18	
			For >50 To 100, Deduct	-10.89	
			For >100, Deduct	-21.78	
03 15 19 00-0107	EA		2-1/2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt	323.06	
			For Galvanized, Add	137.52	
			For Stainless Steel, Add	962.61	
			For >10 To 50, Deduct	-2.40	
			For >50 To 100, Deduct	-11.68	
			For >100, Deduct	-23.36	

03 Concrete**03 10 Concrete Forming and Accessories****03 15 Concrete Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0108	EA		2-1/2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	344.07	
			For Galvanized, Add	145.36	
			For Stainless Steel, Add	1,017.49	
			For >10 To 50, Deduct	-2.67	
			For >50 To 100, Deduct	-12.60	
			For >100, Deduct	-25.21	
03 15 19 00-0109	EA		2-1/2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	375.35	
			For Galvanized, Add	153.38	
			For Stainless Steel, Add	1,073.63	
			For >10 To 50, Deduct	-3.43	
			For >50 To 100, Deduct	-14.53	
			For >100, Deduct	-29.06	
03 15 19 00-0110	EA		2-3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	277.38	
			For Galvanized, Add	123.69	
			For Stainless Steel, Add	865.80	
			For >10 To 50, Deduct	-1.50	
			For >50 To 100, Deduct	-9.19	
			For >100, Deduct	-18.37	
03 15 19 00-0111	EA		2-3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	298.91	
			For Galvanized, Add	132.31	
			For Stainless Steel, Add	926.14	
			For >10 To 50, Deduct	-1.72	
			For >50 To 100, Deduct	-10.05	
			For >100, Deduct	-20.09	
03 15 19 00-0112	EA		2-3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	322.03	
			For Galvanized, Add	141.01	
			For Stainless Steel, Add	987.07	
			For >10 To 50, Deduct	-2.00	
			For >50 To 100, Deduct	-11.05	
			For >100, Deduct	-22.10	
03 15 19 00-0113	EA		2-3/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	345.72	
			For Galvanized, Add	148.85	
			For Stainless Steel, Add	1,041.92	
			For >10 To 50, Deduct	-2.40	
			For >50 To 100, Deduct	-12.25	
			For >100, Deduct	-24.49	
03 15 19 00-0114	EA		2-3/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	368.18	
			For Galvanized, Add	157.41	
			For Stainless Steel, Add	1,101.87	
			For >10 To 50, Deduct	-2.67	
			For >50 To 100, Deduct	-13.21	
			For >100, Deduct	-26.41	
03 15 19 00-0115	EA		2-3/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	399.15	
			For Galvanized, Add	169.57	
			For Stainless Steel, Add	1,186.96	
			For >10 To 50, Deduct	-3.00	
			For >50 To 100, Deduct	-14.48	
			For >100, Deduct	-28.96	
03 15 19 00-0116	EA		2-3/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	437.82	
			For Galvanized, Add	178.89	
			For Stainless Steel, Add	1,252.23	
			For >10 To 50, Deduct	-4.00	
			For >50 To 100, Deduct	-16.95	
			For >100, Deduct	-33.90	

03 20 Concrete Reinforcing ⁽⁰³⁾

Note: Includes cutting or torching to size, bending where necessary and tie wires.

03 21 Reinforcement Bars ^(03 20)

Note: Includes cutting, bending, tie wire, tying, bar chairs and all non-mechanical splicing. The weights of reinforcing steel shall be used as follows: #2 - 0.167 Lbs./LF, #3 - 0.376 Lbs./LF, #4 - 0.668 Lbs./LF, #5 - 1.043 Lbs./LF, #6 - 1.502 Lbs./LF, #7 - 2.044 Lbs./LF, #8 - 2.670 Lbs./LF, #9 - 3.400 Lbs./LF, #10 - 4.303 Lbs./LF, #11 - 5.313 Lbs./LF, #14 - 7.650 Lbs./LF, #18 - 13.600 Lbs./LF.

03 21 11 Plain Steel Reinforcement Bars ^(03 21)**03 21 11 00-0001 Beams And Girders, Steel Reinforcement Bar** ^(03 21 11)

Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.

03 21 11 00-0002	LF		#3, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	0.68	
			For Up To 100, Add	0.43	
			For >100 To 200, Add	0.24	
			For >200 To 500, Add	0.10	
03 21 11 00-0003	LF		#4, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	1.15	
			For Up To 100, Add	0.75	
			For >100 To 200, Add	0.41	
			For >200 To 500, Add	0.16	
03 21 11 00-0004	LF		#5, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	1.71	
			For Up To 100, Add	1.14	
			For >100 To 200, Add	0.62	
			For >200 To 500, Add	0.25	
03 21 11 00-0005	LF		#6, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	2.37	
			For Up To 100, Add	1.61	
			For >100 To 200, Add	0.87	
			For >200 To 500, Add	0.35	



	Concrete	03	
	Concrete Reinforcing	03 20	
	Reinforcement Bars	03 21	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0006	LF	#3, Grade 50, Beams And Girders, Steel Reinforcement Bar	.....	0.70	
		For Up To 100, Add		0.45	
		For >100 To 200, Add		0.25	
		For >200 To 500, Add		0.10	
03 21 11 00-0007	LF	#4, Grade 50, Beams And Girders, Steel Reinforcement Bar	.....	1.17	
		For Up To 100, Add		0.77	
		For >100 To 200, Add		0.42	
		For >200 To 500, Add		0.17	
03 21 11 00-0008	LF	#5, Grade 50, Beams And Girders, Steel Reinforcement Bar	.....	1.75	
		For Up To 100, Add		1.18	
		For >100 To 200, Add		0.64	
		For >200 To 500, Add		0.26	
03 21 11 00-0009	LF	#6, Grade 50, Beams And Girders, Steel Reinforcement Bar	.....	2.42	
		For Up To 100, Add		1.66	
		For >100 To 200, Add		0.89	
		For >200 To 500, Add		0.36	
03 21 11 00-0010	LF	#3, Grade 60, Beams And Girders, Steel Reinforcement Bar	.....	0.72	
		For Up To 100, Add		0.47	
		For >100 To 200, Add		0.26	
		For >200 To 500, Add		0.10	
03 21 11 00-0011	LF	#4, Grade 60, Beams And Girders, Steel Reinforcement Bar	.....	1.21	
		For Up To 100, Add		0.81	
		For >100 To 200, Add		0.44	
		For >200 To 500, Add		0.18	
03 21 11 00-0012	LF	#5, Grade 60, Beams And Girders, Steel Reinforcement Bar	.....	1.81	
		For Up To 100, Add		1.24	
		For >100 To 200, Add		0.67	
		For >200 To 500, Add		0.27	
03 21 11 00-0013	LF	#6, Grade 60, Beams And Girders, Steel Reinforcement Bar	.....	2.51	
		For Up To 100, Add		1.75	
		For >100 To 200, Add		0.94	
		For >200 To 500, Add		0.38	
03 21 11 00-0014	LF	#7, Grade 60, Beams And Girders, Steel Reinforcement Bar	.....	3.24	
		For Up To 100, Add		1.81	
		For >100 To 200, Add		1.06	
		For >200 To 400, Add		0.49	
03 21 11 00-0015	LF	#8, Grade 60, Beams And Girders, Steel Reinforcement Bar	.....	4.03	
		For Up To 100, Add		2.29	
		For >100 To 200, Add		1.34	
		For >200 To 400, Add		0.62	
03 21 11 00-0016	LF	#9, Grade 60, Beams And Girders, Steel Reinforcement Bar	.....	4.94	
		For Up To 100, Add		2.85	
		For >100 To 200, Add		1.66	
		For >200 To 400, Add		0.77	
03 21 11 00-0017	LF	#10, Grade 60, Beams And Girders, Steel Reinforcement Bar	.....	6.03	
		For Up To 100, Add		2.87	
		For >100 To 200, Add		1.56	
		For >200 To 300, Add		0.78	
03 21 11 00-0018	LF	#11, Grade 60, Beams And Girders, Steel Reinforcement Bar	.....	7.16	
		For Up To 100, Add		3.46	
		For >100 To 200, Add		1.87	
		For >200 To 300, Add		0.93	
03 21 11 00-0019	LF	#14, Grade 60, Beams And Girders, Steel Reinforcement Bar	.....	9.91	
		For Up To 100, Add		4.86	
		For >100 To 200, Add		2.61	
		For >200 To 300, Add		1.31	
03 21 11 00-0020	LF	#18, Grade 60, Beams And Girders, Steel Reinforcement Bar	.....	16.91	
		For Up To 100, Add		8.43	
		For >100 To 200, Add		4.50	
		For >200 To 300, Add		2.25	
03 21 11 00-0021	LF	#6, Grade 75, Beams And Girders, Steel Reinforcement Bar	.....	2.59	
		For Up To 100, Add		1.83	
		For >100 To 200, Add		0.98	
		For >200 To 500, Add		0.39	
03 21 11 00-0022	LF	#7, Grade 75, Beams And Girders, Steel Reinforcement Bar	.....	3.35	
		For Up To 100, Add		1.89	
		For >100 To 200, Add		1.11	
		For >200 To 400, Add		0.51	
03 21 11 00-0023	LF	#8, Grade 75, Beams And Girders, Steel Reinforcement Bar	.....	4.17	
		For Up To 100, Add		2.40	
		For >100 To 200, Add		1.39	
		For >200 To 400, Add		0.65	
03 21 11 00-0024	LF	#9, Grade 75, Beams And Girders, Steel Reinforcement Bar	.....	5.12	
		For Up To 100, Add		2.98	
		For >100 To 200, Add		1.73	
		For >200 To 400, Add		0.81	
03 21 11 00-0025	LF	#10, Grade 75, Beams And Girders, Steel Reinforcement Bar	.....	6.27	
		For Up To 100, Add		3.02	
		For >100 To 200, Add		1.63	
		For >200 To 300, Add		0.82	
03 21 11 00-0026	LF	#11, Grade 75, Beams And Girders, Steel Reinforcement Bar	.....	7.45	
		For Up To 100, Add		3.63	
		For >100 To 200, Add		1.96	
		For >200 To 300, Add		0.98	

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0027	LF		#14, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	10.33	
			For Up To 100, Add	5.11	
			For >100 To 200, Add	2.74	
			For >200 To 300, Add	1.37	
03 21 11 00-0028	LF		#18, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	17.65	
			For Up To 100, Add	8.87	
			For >100 To 200, Add	4.72	
			For >200 To 300, Add	2.36	
03 21 11 00-0029	LF		#3, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	0.73	
			For Up To 100, Add	0.48	
			For >100 To 200, Add	0.26	
			For >200 To 500, Add	0.11	
03 21 11 00-0030	LF		#4, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	1.24	
			For Up To 100, Add	0.84	
			For >100 To 200, Add	0.46	
			For >200 To 500, Add	0.18	
03 21 11 00-0031	LF		#5, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	1.85	
			For Up To 100, Add	1.28	
			For >100 To 200, Add	0.69	
			For >200 To 500, Add	0.28	
03 21 11 00-0032	LF		#6, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	2.57	
			For Up To 100, Add	1.81	
			For >100 To 200, Add	0.97	
			For >200 To 500, Add	0.39	
03 21 11 00-0033	LF		#7, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	3.33	
			For Up To 100, Add	1.87	
			For >100 To 200, Add	1.10	
			For >200 To 400, Add	0.51	
03 21 11 00-0034	LF		#8, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	4.14	
			For Up To 100, Add	2.37	
			For >100 To 200, Add	1.38	
			For >200 To 400, Add	0.65	
03 21 11 00-0035	LF		#9, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	5.08	
			For Up To 100, Add	2.95	
			For >100 To 200, Add	1.71	
			For >200 To 400, Add	0.80	
03 21 11 00-0036	LF		#10, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	6.21	
			For Up To 100, Add	2.98	
			For >100 To 200, Add	1.61	
			For >200 To 300, Add	0.81	
03 21 11 00-0037	LF		#11, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	7.38	
			For Up To 100, Add	3.59	
			For >100 To 200, Add	1.94	
			For >200 To 300, Add	0.97	
03 21 11 00-0038	LF		#14, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	10.23	
			For Up To 100, Add	5.05	
			For >100 To 200, Add	2.71	
			For >200 To 300, Add	1.35	
03 21 11 00-0039	LF		#18, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	17.47	
			For Up To 100, Add	8.77	
			For >100 To 200, Add	4.67	
			For >200 To 300, Add	2.33	
03 21 11 00-0040			Columns, Steel Reinforcement Bar (03 21 11) Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.		
03 21 11 00-0041	LF		#3, Grade 40, Columns, Steel Reinforcement Bar.....	0.71	
			For Up To 100, Add	0.45	
			For >100 To 200, Add	0.25	
			For >200 To 500, Add	0.10	
03 21 11 00-0042	LF		#4, Grade 40, Columns, Steel Reinforcement Bar.....	1.22	
			For Up To 100, Add	0.78	
			For >100 To 200, Add	0.43	
			For >200 To 500, Add	0.17	
03 21 11 00-0043	LF		#5, Grade 40, Columns, Steel Reinforcement Bar.....	1.81	
			For Up To 100, Add	1.18	
			For >100 To 200, Add	0.64	
			For >200 To 500, Add	0.26	
03 21 11 00-0044	LF		#6, Grade 40, Columns, Steel Reinforcement Bar.....	2.49	
			For Up To 100, Add	1.66	
			For >100 To 200, Add	0.90	
			For >200 To 500, Add	0.36	
03 21 11 00-0045	LF		#3, Grade 50, Columns, Steel Reinforcement Bar.....	0.73	
			For Up To 100, Add	0.47	
			For >100 To 200, Add	0.26	
			For >200 To 500, Add	0.10	
03 21 11 00-0046	LF		#4, Grade 50, Columns, Steel Reinforcement Bar.....	1.24	
			For Up To 100, Add	0.80	
			For >100 To 200, Add	0.44	
			For >200 To 500, Add	0.18	
03 21 11 00-0047	LF		#5, Grade 50, Columns, Steel Reinforcement Bar.....	1.85	
			For Up To 100, Add	1.22	
			For >100 To 200, Add	0.66	
			For >200 To 500, Add	0.27	



		Concrete	03	CS
		Concrete Reinforcing	03 20	
		Reinforcement Bars	03 21	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0048	LF	#6, Grade 50, Columns, Steel Reinforcement Bar	.....	2.54	
		For Up To 100, Add	.....	1.71	
		For >100 To 200, Add	.....	0.92	
		For >200 To 500, Add	.....	0.37	
03 21 11 00-0049	LF	#3, Grade 60, Columns, Steel Reinforcement Bar	.....	0.75	
		For Up To 100, Add	.....	0.49	
		For >100 To 200, Add	.....	0.27	
		For >200 To 500, Add	.....	0.11	
03 21 11 00-0050	LF	#4, Grade 60, Columns, Steel Reinforcement Bar	.....	1.28	
		For Up To 100, Add	.....	0.84	
		For >100 To 200, Add	.....	0.46	
		For >200 To 500, Add	.....	0.18	
03 21 11 00-0051	LF	#5, Grade 60, Columns, Steel Reinforcement Bar	.....	1.91	
		For Up To 100, Add	.....	1.28	
		For >100 To 200, Add	.....	0.69	
		For >200 To 500, Add	.....	0.28	
03 21 11 00-0052	LF	#6, Grade 60, Columns, Steel Reinforcement Bar	.....	2.63	
		For Up To 100, Add	.....	1.80	
		For >100 To 200, Add	.....	0.97	
		For >200 To 500, Add	.....	0.39	
03 21 11 00-0053	LF	#7, Grade 60, Columns, Steel Reinforcement Bar	.....	3.40	
		For Up To 100, Add	.....	1.86	
		For >100 To 200, Add	.....	1.10	
		For >200 To 400, Add	.....	0.51	
03 21 11 00-0054	LF	#8, Grade 60, Columns, Steel Reinforcement Bar	.....	4.21	
		For Up To 100, Add	.....	2.35	
		For >100 To 200, Add	.....	1.38	
		For >200 To 400, Add	.....	0.64	
03 21 11 00-0055	LF	#9, Grade 60, Columns, Steel Reinforcement Bar	.....	5.15	
		For Up To 100, Add	.....	2.92	
		For >100 To 200, Add	.....	1.71	
		For >200 To 400, Add	.....	0.80	
03 21 11 00-0056	LF	#10, Grade 60, Columns, Steel Reinforcement Bar	.....	6.27	
		For Up To 100, Add	.....	2.94	
		For >100 To 200, Add	.....	1.61	
		For >200 To 300, Add	.....	0.80	
03 21 11 00-0057	LF	#11, Grade 60, Columns, Steel Reinforcement Bar	.....	7.44	
		For Up To 100, Add	.....	3.54	
		For >100 To 200, Add	.....	1.93	
		For >200 To 300, Add	.....	0.96	
03 21 11 00-0058	LF	#14, Grade 60, Columns, Steel Reinforcement Bar	.....	10.28	
		For Up To 100, Add	.....	4.97	
		For >100 To 200, Add	.....	2.69	
		For >200 To 300, Add	.....	1.34	
03 21 11 00-0059	LF	#18, Grade 60, Columns, Steel Reinforcement Bar	.....	17.48	
		For Up To 100, Add	.....	8.60	
		For >100 To 200, Add	.....	4.62	
		For >200 To 300, Add	.....	2.31	
03 21 11 00-0060	LF	#6, Grade 75, Columns, Steel Reinforcement Bar	.....	2.71	
		For Up To 100, Add	.....	1.88	
		For >100 To 200, Add	.....	1.01	
		For >200 To 500, Add	.....	0.40	
03 21 11 00-0061	LF	#7, Grade 75, Columns, Steel Reinforcement Bar	.....	3.51	
		For Up To 100, Add	.....	1.94	
		For >100 To 200, Add	.....	1.15	
		For >200 To 400, Add	.....	0.53	
03 21 11 00-0062	LF	#8, Grade 75, Columns, Steel Reinforcement Bar	.....	4.35	
		For Up To 100, Add	.....	2.46	
		For >100 To 200, Add	.....	1.44	
		For >200 To 400, Add	.....	0.67	
03 21 11 00-0063	LF	#9, Grade 75, Columns, Steel Reinforcement Bar	.....	5.33	
		For Up To 100, Add	.....	3.06	
		For >100 To 200, Add	.....	1.78	
		For >200 To 400, Add	.....	0.83	
03 21 11 00-0064	LF	#10, Grade 75, Columns, Steel Reinforcement Bar	.....	6.51	
		For Up To 100, Add	.....	3.09	
		For >100 To 200, Add	.....	1.68	
		For >200 To 300, Add	.....	0.84	
03 21 11 00-0065	LF	#11, Grade 75, Columns, Steel Reinforcement Bar	.....	7.73	
		For Up To 100, Add	.....	3.72	
		For >100 To 200, Add	.....	2.01	
		For >200 To 300, Add	.....	1.01	
03 21 11 00-0066	LF	#14, Grade 75, Columns, Steel Reinforcement Bar	.....	10.70	
		For Up To 100, Add	.....	5.22	
		For >100 To 200, Add	.....	2.81	
		For >200 To 300, Add	.....	1.41	
03 21 11 00-0067	LF	#18, Grade 75, Columns, Steel Reinforcement Bar	.....	18.22	
		For Up To 100, Add	.....	9.05	
		For >100 To 200, Add	.....	4.84	
		For >200 To 300, Add	.....	2.42	
03 21 11 00-0068	LF	#3, Grade 60, Columns, Low Alloy Steel Reinforcement Bar	.....	0.76	
		For Up To 100, Add	.....	0.50	
		For >100 To 200, Add	.....	0.27	
		For >200 To 500, Add	.....	0.11	

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0069	LF	#4, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	1.31		
		For Up To 100, Add	0.87		
		For >100 To 200, Add	0.47		
		For >200 To 500, Add	0.19		
03 21 11 00-0070	LF	#5, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	1.95		
		For Up To 100, Add	1.32		
		For >100 To 200, Add	0.71		
		For >200 To 500, Add	0.29		
03 21 11 00-0071	LF	#6, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	2.69		
		For Up To 100, Add	1.86		
		For >100 To 200, Add	1.00		
		For >200 To 500, Add	0.40		
03 21 11 00-0072	LF	#7, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	3.49		
		For Up To 100, Add	1.93		
		For >100 To 200, Add	1.14		
		For >200 To 400, Add	0.53		
03 21 11 00-0073	LF	#8, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	4.32		
		For Up To 100, Add	2.44		
		For >100 To 200, Add	1.43		
		For >200 To 400, Add	0.66		
03 21 11 00-0074	LF	#9, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	5.29		
		For Up To 100, Add	3.03		
		For >100 To 200, Add	1.76		
		For >200 To 400, Add	0.82		
03 21 11 00-0075	LF	#10, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	6.45		
		For Up To 100, Add	3.05		
		For >100 To 200, Add	1.66		
		For >200 To 300, Add	0.83		
03 21 11 00-0076	LF	#11, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	7.66		
		For Up To 100, Add	3.68		
		For >100 To 200, Add	1.99		
		For >200 To 300, Add	1.00		
03 21 11 00-0077	LF	#14, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	10.60		
		For Up To 100, Add	5.16		
		For >100 To 200, Add	2.78		
		For >200 To 300, Add	1.39		
03 21 11 00-0078	LF	#18, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	18.04		
		For Up To 100, Add	8.94		
		For >100 To 200, Add	4.78		
		For >200 To 300, Add	2.39		
03 21 11 00-0079		Footings, Steel Reinforcement Bar (03 21 11)			
		Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.			
03 21 11 00-0080	LF	#3, Grade 40, Footings, Steel Reinforcement Bar	0.62		
		For Up To 100, Add	0.41		
		For >100 To 200, Add	0.22		
		For >200 To 500, Add	0.09		
03 21 11 00-0081	LF	#4, Grade 40, Footings, Steel Reinforcement Bar	1.05		
		For Up To 100, Add	0.71		
		For >100 To 200, Add	0.39		
		For >200 To 500, Add	0.15		
03 21 11 00-0082	LF	#5, Grade 40, Footings, Steel Reinforcement Bar	1.58		
		For Up To 100, Add	1.09		
		For >100 To 200, Add	0.59		
		For >200 To 500, Add	0.23		
03 21 11 00-0083	LF	#6, Grade 40, Footings, Steel Reinforcement Bar	2.18		
		For Up To 100, Add	1.53		
		For >100 To 200, Add	0.82		
		For >200 To 500, Add	0.33		
03 21 11 00-0084	LF	#3, Grade 50, Footings, Steel Reinforcement Bar	0.64		
		For Up To 100, Add	0.43		
		For >100 To 200, Add	0.23		
		For >200 To 500, Add	0.09		
03 21 11 00-0085	LF	#4, Grade 50, Footings, Steel Reinforcement Bar	1.07		
		For Up To 100, Add	0.73		
		For >100 To 200, Add	0.40		
		For >200 To 500, Add	0.16		
03 21 11 00-0086	LF	#5, Grade 50, Footings, Steel Reinforcement Bar	1.62		
		For Up To 100, Add	1.13		
		For >100 To 200, Add	0.61		
		For >200 To 500, Add	0.24		
03 21 11 00-0087	LF	#6, Grade 50, Footings, Steel Reinforcement Bar	2.23		
		For Up To 100, Add	1.58		
		For >100 To 200, Add	0.85		
		For >200 To 500, Add	0.34		
03 21 11 00-0088	LF	#3, Grade 60, Footings, Steel Reinforcement Bar	0.66		
		For Up To 100, Add	0.45		
		For >100 To 200, Add	0.24		
		For >200 To 500, Add	0.10		
03 21 11 00-0089	LF	#4, Grade 60, Footings, Steel Reinforcement Bar	1.11		
		For Up To 100, Add	0.77		
		For >100 To 200, Add	0.42		
		For >200 To 500, Add	0.17		



		Concrete	03	CS
		Concrete Reinforcing	03 20	
		Reinforcement Bars	03 21	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0090	LF	#5, Grade 60, Footings, Steel Reinforcement Bar	.....	1.68	
		For Up To 100, Add		1.19	
		For >100 To 200, Add		0.64	
		For >200 To 500, Add		0.25	
03 21 11 00-0091	LF	#6, Grade 60, Footings, Steel Reinforcement Bar	.....	2.32	
		For Up To 100, Add		1.67	
		For >100 To 200, Add		0.89	
		For >200 To 500, Add		0.36	
03 21 11 00-0092	LF	#7, Grade 60, Footings, Steel Reinforcement Bar	.....	3.01	
		For Up To 100, Add		1.73	
		For >100 To 200, Add		1.00	
		For >200 To 400, Add		0.47	
03 21 11 00-0093	LF	#8, Grade 60, Footings, Steel Reinforcement Bar	.....	3.76	
		For Up To 100, Add		2.20	
		For >100 To 200, Add		1.27	
		For >200 To 400, Add		0.60	
03 21 11 00-0094	LF	#9, Grade 60, Footings, Steel Reinforcement Bar	.....	4.62	
		For Up To 100, Add		2.74	
		For >100 To 200, Add		1.58	
		For >200 To 400, Add		0.74	
03 21 11 00-0095	LF	#10, Grade 60, Footings, Steel Reinforcement Bar	.....	5.65	
		For Up To 100, Add		3.39	
		For >100 To 200, Add		1.94	
		For >200 To 400, Add		0.92	
		For Up To 100, Add		2.76	
		For >100 To 200, Add		1.48	
		For >200 To 300, Add		0.74	
03 21 11 00-0096	LF	#11, Grade 60, Footings, Steel Reinforcement Bar	.....	6.74	
		For Up To 100, Add		4.11	
		For >100 To 200, Add		2.34	
		For >200 To 400, Add		1.11	
		For Up To 100, Add		3.33	
		For >100 To 200, Add		1.79	
		For >200 To 300, Add		0.89	
03 21 11 00-0097	LF	#14, Grade 60, Footings, Steel Reinforcement Bar	.....	9.37	
		For Up To 100, Add		5.80	
		For >100 To 200, Add		3.29	
		For >200 To 400, Add		1.57	
		For Up To 100, Add		4.70	
		For >100 To 200, Add		2.50	
		For >200 To 300, Add		1.25	
03 21 11 00-0098	LF	#18, Grade 60, Footings, Steel Reinforcement Bar	.....	16.04	
		For Up To 100, Add		10.09	
		For >100 To 200, Add		5.69	
		For >200 To 400, Add		2.72	
		For Up To 100, Add		8.17	
		For >100 To 200, Add		4.33	
		For >200 To 300, Add		2.16	
03 21 11 00-0099	LF	#6, Grade 75, Footings, Steel Reinforcement Bar	.....	2.40	
		For Up To 100, Add		1.75	
		For >100 To 200, Add		0.93	
		For >200 To 500, Add		0.37	
		For Up To 100, Add		1.37	
		For >100 To 200, Add		0.80	
		For >200 To 400, Add		0.37	
03 21 11 00-0100	LF	#7, Grade 75, Footings, Steel Reinforcement Bar	.....	3.12	
		For Up To 100, Add		1.81	
		For >100 To 200, Add		1.05	
		For >200 To 400, Add		0.49	
03 21 11 00-0101	LF	#8, Grade 75, Footings, Steel Reinforcement Bar	.....	3.90	
		For Up To 100, Add		2.30	
		For >100 To 200, Add		1.33	
		For >200 To 400, Add		0.62	
03 21 11 00-0102	LF	#9, Grade 75, Footings, Steel Reinforcement Bar	.....	4.80	
		For Up To 100, Add		2.87	
		For >100 To 200, Add		1.65	
		For >200 To 400, Add		0.78	
03 21 11 00-0103	LF	#10, Grade 75, Footings, Steel Reinforcement Bar	.....	5.89	
		For Up To 100, Add		2.90	
		For >100 To 200, Add		1.56	
		For >200 To 300, Add		0.78	
03 21 11 00-0104	LF	#11, Grade 75, Footings, Steel Reinforcement Bar	.....	7.03	
		For Up To 100, Add		3.51	
		For >100 To 200, Add		1.87	
		For >200 To 300, Add		0.94	
03 21 11 00-0105	LF	#14, Grade 75, Footings, Steel Reinforcement Bar	.....	9.79	
		For Up To 100, Add		4.95	
		For >100 To 200, Add		2.63	
		For >200 To 300, Add		1.31	
03 21 11 00-0106	LF	#18, Grade 75, Footings, Steel Reinforcement Bar	.....	16.78	
		For Up To 100, Add		8.61	
		For >100 To 200, Add		4.55	
		For >200 To 300, Add		2.27	
03 21 11 00-0107	LF	#3, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	.....	0.67	
		For Up To 100, Add		0.46	
		For >100 To 200, Add		0.25	
		For >200 To 500, Add		0.10	

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0108	LF	#4, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	.....	1.14	
		For Up To 100, Add		0.80	
		For >100 To 200, Add		0.43	
		For >200 To 500, Add		0.17	
03 21 11 00-0109	LF	#5, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	.....	1.72	
		For Up To 100, Add		1.23	
		For >100 To 200, Add		0.66	
		For >200 To 500, Add		0.26	
03 21 11 00-0110	LF	#6, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	.....	2.38	
		For Up To 100, Add		1.73	
		For >100 To 200, Add		0.92	
		For >200 To 500, Add		0.37	
03 21 11 00-0111	LF	#7, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	.....	3.10	
		For Up To 100, Add		1.79	
		For >100 To 200, Add		1.04	
		For >200 To 400, Add		0.49	
03 21 11 00-0112	LF	#8, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	.....	3.87	
		For Up To 100, Add		2.28	
		For >100 To 200, Add		1.31	
		For >200 To 400, Add		0.62	
03 21 11 00-0113	LF	#9, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	.....	4.76	
		For Up To 100, Add		2.84	
		For >100 To 200, Add		1.63	
		For >200 To 400, Add		0.77	
03 21 11 00-0114	LF	#10, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	.....	5.83	
		For Up To 100, Add		2.87	
		For >100 To 200, Add		1.54	
		For >200 To 300, Add		0.77	
03 21 11 00-0115	LF	#11, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	.....	6.96	
		For Up To 100, Add		3.47	
		For >100 To 200, Add		1.85	
		For >200 To 300, Add		0.93	
03 21 11 00-0116	LF	#14, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	.....	9.69	
		For Up To 100, Add		4.89	
		For >100 To 200, Add		2.60	
		For >200 To 300, Add		1.30	
03 21 11 00-0117	LF	#18, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	.....	16.60	
		For Up To 100, Add		8.51	
		For >100 To 200, Add		4.50	
		For >200 To 300, Add		2.25	
03 21 11 00-0118		Slab On Grade, Steel Reinforcement Bar (03 21 11)			
		Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.			
03 21 11 00-0119	LF	#3, Grade 40, Slab On Grade, Steel Reinforcement Bar	.....	0.59	
		For Up To 100, Add		0.40	
		For >100 To 200, Add		0.22	
		For >200 To 500, Add		0.09	
03 21 11 00-0120	LF	#4, Grade 40, Slab On Grade, Steel Reinforcement Bar	.....	1.02	
		For Up To 100, Add		0.70	
		For >100 To 200, Add		0.38	
		For >200 To 500, Add		0.15	
03 21 11 00-0121	LF	#5, Grade 40, Slab On Grade, Steel Reinforcement Bar	.....	1.52	
		For Up To 100, Add		1.06	
		For >100 To 200, Add		0.57	
		For >200 To 500, Add		0.23	
03 21 11 00-0122	LF	#6, Grade 40, Slab On Grade, Steel Reinforcement Bar	.....	2.10	
		For Up To 100, Add		1.50	
		For >100 To 200, Add		0.80	
		For >200 To 500, Add		0.32	
03 21 11 00-0123	LF	#3, Grade 50, Slab On Grade, Steel Reinforcement Bar	.....	0.61	
		For Up To 100, Add		0.42	
		For >100 To 200, Add		0.23	
		For >200 To 500, Add		0.09	
03 21 11 00-0124	LF	#4, Grade 50, Slab On Grade, Steel Reinforcement Bar	.....	1.04	
		For Up To 100, Add		0.72	
		For >100 To 200, Add		0.39	
		For >200 To 500, Add		0.16	
03 21 11 00-0125	LF	#5, Grade 50, Slab On Grade, Steel Reinforcement Bar	.....	1.56	
		For Up To 100, Add		1.10	
		For >100 To 200, Add		0.59	
		For >200 To 500, Add		0.24	
03 21 11 00-0126	LF	#6, Grade 50, Slab On Grade, Steel Reinforcement Bar	.....	2.15	
		For Up To 100, Add		1.55	
		For >100 To 200, Add		0.83	
		For >200 To 500, Add		0.33	
03 21 11 00-0127	LF	#3, Grade 60, Slab On Grade, Steel Reinforcement Bar	.....	0.63	
		For Up To 100, Add		0.44	
		For >100 To 200, Add		0.24	
		For >200 To 500, Add		0.09	
03 21 11 00-0128	LF	#4, Grade 60, Slab On Grade, Steel Reinforcement Bar	.....	1.08	
		For Up To 100, Add		0.76	
		For >100 To 200, Add		0.41	
		For >200 To 500, Add		0.16	



	Concrete	03	
	Concrete Reinforcing	03 20	
	Reinforcement Bars	03 21	

CS

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0129	LF	#5, Grade 60, Slab On Grade, Steel Reinforcement Bar	.....	1.62	
		For Up To 100, Add	.....	1.16	
		For >100 To 200, Add	.....	0.62	
		For >200 To 500, Add	.....	0.25	
03 21 11 00-0130	LF	#6, Grade 60, Slab On Grade, Steel Reinforcement Bar	.....	2.24	
		For Up To 100, Add	.....	1.64	
		For >100 To 200, Add	.....	0.87	
		For >200 To 500, Add	.....	0.35	
03 21 11 00-0131	LF	#7, Grade 60, Slab On Grade, Steel Reinforcement Bar	.....	2.93	
		For Up To 100, Add	.....	1.70	
		For >100 To 200, Add	.....	0.98	
		For >200 To 400, Add	.....	0.46	
03 21 11 00-0132	LF	#8, Grade 60, Slab On Grade, Steel Reinforcement Bar	.....	3.66	
		For Up To 100, Add	.....	2.16	
		For >100 To 200, Add	.....	1.25	
		For >200 To 400, Add	.....	0.59	
03 21 11 00-0133	LF	#9, Grade 60, Slab On Grade, Steel Reinforcement Bar	.....	4.52	
		For Up To 100, Add	.....	2.70	
		For >100 To 200, Add	.....	1.55	
		For >200 To 400, Add	.....	0.73	
03 21 11 00-0134	LF	#10, Grade 60, Slab On Grade, Steel Reinforcement Bar	.....	5.53	
		For Up To 100, Add	.....	2.72	
		For >100 To 200, Add	.....	1.46	
		For >200 To 300, Add	.....	0.73	
03 21 11 00-0135	LF	#11, Grade 60, Slab On Grade, Steel Reinforcement Bar	.....	6.61	
		For Up To 100, Add	.....	3.29	
		For >100 To 200, Add	.....	1.76	
		For >200 To 300, Add	.....	0.88	
03 21 11 00-0136	LF	#14, Grade 60, Slab On Grade, Steel Reinforcement Bar	.....	9.18	
		For Up To 100, Add	.....	4.64	
		For >100 To 200, Add	.....	2.47	
		For >200 To 300, Add	.....	1.23	
03 21 11 00-0137	LF	#18, Grade 60, Slab On Grade, Steel Reinforcement Bar	.....	15.76	
		For Up To 100, Add	.....	8.09	
		For >100 To 200, Add	.....	4.27	
		For >200 To 300, Add	.....	2.14	
03 21 11 00-0138	LF	#6, Grade 75, Slab On Grade, Steel Reinforcement Bar	.....	2.32	
		For Up To 100, Add	.....	1.72	
		For >100 To 200, Add	.....	0.91	
		For >200 To 500, Add	.....	0.36	
03 21 11 00-0139	LF	#7, Grade 75, Slab On Grade, Steel Reinforcement Bar	.....	3.04	
		For Up To 100, Add	.....	1.78	
		For >100 To 200, Add	.....	1.03	
		For >200 To 400, Add	.....	0.48	
03 21 11 00-0140	LF	#8, Grade 75, Slab On Grade, Steel Reinforcement Bar	.....	3.80	
		For Up To 100, Add	.....	2.27	
		For >100 To 200, Add	.....	1.30	
		For >200 To 400, Add	.....	0.61	
03 21 11 00-0141	LF	#9, Grade 75, Slab On Grade, Steel Reinforcement Bar	.....	4.70	
		For Up To 100, Add	.....	2.84	
		For >100 To 200, Add	.....	1.62	
		For >200 To 400, Add	.....	0.77	
03 21 11 00-0142	LF	#10, Grade 75, Slab On Grade, Steel Reinforcement Bar	.....	5.77	
		For Up To 100, Add	.....	2.87	
		For >100 To 200, Add	.....	1.53	
		For >200 To 300, Add	.....	0.77	
03 21 11 00-0143	LF	#11, Grade 75, Slab On Grade, Steel Reinforcement Bar	.....	6.90	
		For Up To 100, Add	.....	3.47	
		For >100 To 200, Add	.....	1.85	
		For >200 To 300, Add	.....	0.92	
03 21 11 00-0144	LF	#14, Grade 75, Slab On Grade, Steel Reinforcement Bar	.....	9.60	
		For Up To 100, Add	.....	4.89	
		For >100 To 200, Add	.....	2.59	
		For >200 To 300, Add	.....	1.30	
03 21 11 00-0145	LF	#18, Grade 75, Slab On Grade, Steel Reinforcement Bar	.....	16.50	
		For Up To 100, Add	.....	8.53	
		For >100 To 200, Add	.....	4.49	
		For >200 To 300, Add	.....	2.25	
03 21 11 00-0146	LF	#3, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	0.64	
		For Up To 100, Add	.....	0.45	
		For >100 To 200, Add	.....	0.24	
		For >200 To 500, Add	.....	0.10	
03 21 11 00-0147	LF	#4, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	1.11	
		For Up To 100, Add	.....	0.79	
		For >100 To 200, Add	.....	0.42	
		For >200 To 500, Add	.....	0.17	
03 21 11 00-0148	LF	#5, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	1.66	
		For Up To 100, Add	.....	1.20	
		For >100 To 200, Add	.....	0.64	
		For >200 To 500, Add	.....	0.26	
03 21 11 00-0149	LF	#6, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	2.30	
		For Up To 100, Add	.....	1.70	
		For >100 To 200, Add	.....	0.90	
		For >200 To 500, Add	.....	0.36	

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0150	LF	#7, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	3.02	
		For Up To 100, Add	1.77	
		For >100 To 200, Add	1.02	
		For >200 To 400, Add	0.48	
03 21 11 00-0151	LF	#8, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	3.77	
		For Up To 100, Add	2.24	
		For >100 To 200, Add	1.29	
		For >200 To 400, Add	0.61	
03 21 11 00-0152	LF	#9, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	4.66	
		For Up To 100, Add	2.81	
		For >100 To 200, Add	1.61	
		For >200 To 400, Add	0.76	
03 21 11 00-0153	LF	#10, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	5.71	
		For Up To 100, Add	2.83	
		For >100 To 200, Add	1.51	
		For >200 To 300, Add	0.76	
03 21 11 00-0154	LF	#11, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	6.83	
		For Up To 100, Add	3.43	
		For >100 To 200, Add	1.83	
		For >200 To 300, Add	0.91	
03 21 11 00-0155	LF	#14, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	9.50	
		For Up To 100, Add	4.83	
		For >100 To 200, Add	2.56	
		For >200 To 300, Add	1.28	
03 21 11 00-0156	LF	#18, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	16.32	
		For Up To 100, Add	8.42	
		For >100 To 200, Add	4.44	
		For >200 To 300, Add	2.22	
03 21 11 00-0157 Elevated Slabs, Steel Reinforcement Bar (03 21 11)				
Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.				
03 21 11 00-0158	LF	#3, Grade 40, Elevated Slabs, Steel Reinforcement Bar	0.55	
		For Up To 100, Add	0.38	
		For >100 To 200, Add	0.21	
		For >200 To 500, Add	0.08	
03 21 11 00-0159	LF	#4, Grade 40, Elevated Slabs, Steel Reinforcement Bar	0.95	
		For Up To 100, Add	0.67	
		For >100 To 200, Add	0.36	
		For >200 To 500, Add	0.14	
03 21 11 00-0160	LF	#5, Grade 40, Elevated Slabs, Steel Reinforcement Bar	1.43	
		For Up To 100, Add	1.03	
		For >100 To 200, Add	0.55	
		For >200 To 500, Add	0.22	
03 21 11 00-0161	LF	#6, Grade 40, Elevated Slabs, Steel Reinforcement Bar	1.98	
		For Up To 100, Add	1.45	
		For >100 To 200, Add	0.77	
		For >200 To 500, Add	0.31	
03 21 11 00-0162	LF	#3, Grade 50, Elevated Slabs, Steel Reinforcement Bar	0.57	
		For Up To 100, Add	0.40	
		For >100 To 200, Add	0.22	
		For >200 To 500, Add	0.09	
03 21 11 00-0163	LF	#4, Grade 50, Elevated Slabs, Steel Reinforcement Bar	0.97	
		For Up To 100, Add	0.69	
		For >100 To 200, Add	0.37	
		For >200 To 500, Add	0.15	
03 21 11 00-0164	LF	#5, Grade 50, Elevated Slabs, Steel Reinforcement Bar	1.47	
		For Up To 100, Add	1.07	
		For >100 To 200, Add	0.57	
		For >200 To 500, Add	0.23	
03 21 11 00-0165	LF	#6, Grade 50, Elevated Slabs, Steel Reinforcement Bar	2.03	
		For Up To 100, Add	1.50	
		For >100 To 200, Add	0.80	
		For >200 To 500, Add	0.32	
03 21 11 00-0166	LF	#3, Grade 60, Elevated Slabs, Steel Reinforcement Bar	0.59	
		For Up To 100, Add	0.42	
		For >100 To 200, Add	0.23	
		For >200 To 500, Add	0.09	
03 21 11 00-0167	LF	#4, Grade 60, Elevated Slabs, Steel Reinforcement Bar	1.01	
		For Up To 100, Add	0.73	
		For >100 To 200, Add	0.39	
		For >200 To 500, Add	0.16	
03 21 11 00-0168	LF	#5, Grade 60, Elevated Slabs, Steel Reinforcement Bar	1.53	
		For Up To 100, Add	1.13	
		For >100 To 200, Add	0.60	
		For >200 To 500, Add	0.24	
03 21 11 00-0169	LF	#6, Grade 60, Elevated Slabs, Steel Reinforcement Bar	2.12	
		For Up To 100, Add	1.59	
		For >100 To 200, Add	0.84	
		For >200 To 500, Add	0.34	
03 21 11 00-0170	LF	#7, Grade 60, Elevated Slabs, Steel Reinforcement Bar	2.78	
		For Up To 100, Add	1.65	
		For >100 To 200, Add	0.95	
		For >200 To 400, Add	0.45	



	Concrete	03	
	Concrete Reinforcing	03 20	
	Reinforcement Bars	03 21	

CS

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0171	LF	#8, Grade 60, Elevated Slabs, Steel Reinforcement Bar	.....	3.48	
		For Up To 100, Add	.....	2.10	
		For >100 To 200, Add	.....	1.20	
		For >200 To 400, Add	.....	0.57	
03 21 11 00-0172	LF	#9, Grade 60, Elevated Slabs, Steel Reinforcement Bar	.....	4.31	
		For Up To 100, Add	.....	2.63	
		For >100 To 200, Add	.....	1.50	
		For >200 To 400, Add	.....	0.71	
03 21 11 00-0173	LF	#10, Grade 60, Elevated Slabs, Steel Reinforcement Bar	.....	5.29	
		For Up To 100, Add	.....	2.65	
		For >100 To 200, Add	.....	1.41	
		For >200 To 300, Add	.....	0.71	
03 21 11 00-0174	LF	#11, Grade 60, Elevated Slabs, Steel Reinforcement Bar	.....	6.33	
		For Up To 100, Add	.....	3.21	
		For >100 To 200, Add	.....	1.70	
		For >200 To 300, Add	.....	0.85	
03 21 11 00-0175	LF	#14, Grade 60, Elevated Slabs, Steel Reinforcement Bar	.....	8.82	
		For Up To 100, Add	.....	4.53	
		For >100 To 200, Add	.....	2.39	
		For >200 To 300, Add	.....	1.20	
03 21 11 00-0176	LF	#18, Grade 60, Elevated Slabs, Steel Reinforcement Bar	.....	15.20	
		For Up To 100, Add	.....	7.92	
		For >100 To 200, Add	.....	4.16	
		For >200 To 300, Add	.....	2.08	
03 21 11 00-0177	LF	#6, Grade 75, Elevated Slabs, Steel Reinforcement Bar	.....	2.20	
		For Up To 100, Add	.....	1.67	
		For >100 To 200, Add	.....	0.88	
		For >200 To 500, Add	.....	0.35	
03 21 11 00-0178	LF	#7, Grade 75, Elevated Slabs, Steel Reinforcement Bar	.....	2.89	
		For Up To 100, Add	.....	1.73	
		For >100 To 200, Add	.....	0.99	
		For >200 To 400, Add	.....	0.47	
03 21 11 00-0179	LF	#8, Grade 75, Elevated Slabs, Steel Reinforcement Bar	.....	3.62	
		For Up To 100, Add	.....	2.20	
		For >100 To 200, Add	.....	1.26	
		For >200 To 400, Add	.....	0.60	
03 21 11 00-0180	LF	#9, Grade 75, Elevated Slabs, Steel Reinforcement Bar	.....	4.49	
		For Up To 100, Add	.....	2.76	
		For >100 To 200, Add	.....	1.57	
		For >200 To 400, Add	.....	0.75	
03 21 11 00-0181	LF	#10, Grade 75, Elevated Slabs, Steel Reinforcement Bar	.....	5.53	
		For Up To 100, Add	.....	2.79	
		For >100 To 200, Add	.....	1.48	
		For >200 To 300, Add	.....	0.74	
03 21 11 00-0182	LF	#11, Grade 75, Elevated Slabs, Steel Reinforcement Bar	.....	6.62	
		For Up To 100, Add	.....	3.38	
		For >100 To 200, Add	.....	1.79	
		For >200 To 300, Add	.....	0.90	
03 21 11 00-0183	LF	#14, Grade 75, Elevated Slabs, Steel Reinforcement Bar	.....	9.24	
		For Up To 100, Add	.....	4.79	
		For >100 To 200, Add	.....	2.52	
		For >200 To 300, Add	.....	1.26	
03 21 11 00-0184	LF	#18, Grade 75, Elevated Slabs, Steel Reinforcement Bar	.....	15.94	
		For Up To 100, Add	.....	8.36	
		For >100 To 200, Add	.....	4.38	
		For >200 To 300, Add	.....	2.19	
03 21 11 00-0185	LF	#3, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	0.60	
		For Up To 100, Add	.....	0.43	
		For >100 To 200, Add	.....	0.23	
		For >200 To 500, Add	.....	0.09	
03 21 11 00-0186	LF	#4, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	1.04	
		For Up To 100, Add	.....	0.76	
		For >100 To 200, Add	.....	0.41	
		For >200 To 500, Add	.....	0.16	
03 21 11 00-0187	LF	#5, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	1.57	
		For Up To 100, Add	.....	1.17	
		For >100 To 200, Add	.....	0.62	
		For >200 To 500, Add	.....	0.25	
03 21 11 00-0188	LF	#6, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	2.18	
		For Up To 100, Add	.....	1.65	
		For >100 To 200, Add	.....	0.87	
		For >200 To 500, Add	.....	0.35	
03 21 11 00-0189	LF	#7, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	2.87	
		For Up To 100, Add	.....	1.71	
		For >100 To 200, Add	.....	0.98	
		For >200 To 400, Add	.....	0.46	
03 21 11 00-0190	LF	#8, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	3.59	
		For Up To 100, Add	.....	2.18	
		For >100 To 200, Add	.....	1.24	
		For >200 To 400, Add	.....	0.59	
03 21 11 00-0191	LF	#9, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	4.45	
		For Up To 100, Add	.....	2.73	
		For >100 To 200, Add	.....	1.55	
		For >200 To 400, Add	.....	0.74	

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0192	LF		#10, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar.....	5.47	
			For Up To 100, Add	2.76	
			For >100 To 200, Add	1.47	
			For >200 To 300, Add	0.73	
03 21 11 00-0193	LF		#11, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar.....	6.55	
			For Up To 100, Add	3.34	
			For >100 To 200, Add	1.77	
			For >200 To 300, Add	0.88	
03 21 11 00-0194	LF		#14, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar.....	9.14	
			For Up To 100, Add	4.73	
			For >100 To 200, Add	2.49	
			For >200 To 300, Add	1.24	
03 21 11 00-0195	LF		#18, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar.....	15.76	
			For Up To 100, Add	8.25	
			For >100 To 200, Add	4.33	
			For >200 To 300, Add	2.16	
03 21 11 00-0196 Walls, Steel Reinforcement Bar (03 21 11)					
Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.					
03 21 11 00-0197	LF		#3, Grade 40, Walls, Steel Reinforcement Bar.....	0.53	
			For Up To 100, Add	0.37	
			For >100 To 200, Add	0.20	
			For >200 To 500, Add	0.08	
03 21 11 00-0198	LF		#4, Grade 40, Walls, Steel Reinforcement Bar.....	0.92	
			For Up To 100, Add	0.66	
			For >100 To 200, Add	0.35	
			For >200 To 500, Add	0.14	
03 21 11 00-0199	LF		#5, Grade 40, Walls, Steel Reinforcement Bar.....	1.38	
			For Up To 100, Add	1.01	
			For >100 To 200, Add	0.54	
			For >200 To 500, Add	0.21	
03 21 11 00-0200	LF		#6, Grade 40, Walls, Steel Reinforcement Bar.....	1.92	
			For Up To 100, Add	1.43	
			For >100 To 200, Add	0.76	
			For >200 To 500, Add	0.30	
03 21 11 00-0201	LF		#3, Grade 50, Walls, Steel Reinforcement Bar.....	0.55	
			For Up To 100, Add	0.39	
			For >100 To 200, Add	0.21	
			For >200 To 500, Add	0.08	
03 21 11 00-0202	LF		#4, Grade 50, Walls, Steel Reinforcement Bar.....	0.94	
			For Up To 100, Add	0.68	
			For >100 To 200, Add	0.36	
			For >200 To 500, Add	0.15	
03 21 11 00-0203	LF		#5, Grade 50, Walls, Steel Reinforcement Bar.....	1.42	
			For Up To 100, Add	1.05	
			For >100 To 200, Add	0.56	
			For >200 To 500, Add	0.22	
03 21 11 00-0204	LF		#6, Grade 50, Walls, Steel Reinforcement Bar.....	1.97	
			For Up To 100, Add	1.48	
			For >100 To 200, Add	0.78	
			For >200 To 500, Add	0.31	
03 21 11 00-0205	LF		#3, Grade 60, Walls, Steel Reinforcement Bar.....	0.57	
			For Up To 100, Add	0.41	
			For >100 To 200, Add	0.22	
			For >200 To 500, Add	0.09	
03 21 11 00-0206	LF		#4, Grade 60, Walls, Steel Reinforcement Bar.....	0.98	
			For Up To 100, Add	0.72	
			For >100 To 200, Add	0.38	
			For >200 To 500, Add	0.15	
03 21 11 00-0207	LF		#5, Grade 60, Walls, Steel Reinforcement Bar.....	1.48	
			For Up To 100, Add	1.11	
			For >100 To 200, Add	0.59	
			For >200 To 500, Add	0.23	
03 21 11 00-0208	LF		#6, Grade 60, Walls, Steel Reinforcement Bar.....	2.06	
			For Up To 100, Add	1.57	
			For >100 To 200, Add	0.83	
			For >200 To 500, Add	0.33	
03 21 11 00-0209	LF		#7, Grade 60, Walls, Steel Reinforcement Bar.....	2.68	
			For Up To 100, Add	1.61	
			For >100 To 200, Add	0.92	
			For >200 To 400, Add	0.44	
03 21 11 00-0210	LF		#8, Grade 60, Walls, Steel Reinforcement Bar.....	3.39	
			For Up To 100, Add	2.07	
			For >100 To 200, Add	1.18	
			For >200 To 400, Add	0.56	
03 21 11 00-0211	LF		#9, Grade 60, Walls, Steel Reinforcement Bar.....	4.20	
			For Up To 100, Add	2.59	
			For >100 To 200, Add	1.47	
			For >200 To 400, Add	0.70	
03 21 11 00-0212	LF		#10, Grade 60, Walls, Steel Reinforcement Bar.....	5.16	
			For Up To 100, Add	2.61	
			For >100 To 200, Add	1.39	
			For >200 To 300, Add	0.69	



		Concrete	03	CS
		Concrete Reinforcing	03 20	
		Reinforcement Bars	03 21	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0213	LF	#11, Grade 60, Walls, Steel Reinforcement Bar	.....	6.19	
		For Up To 100, Add		3.17	
		For >100 To 200, Add		1.68	
		For >200 To 300, Add		0.84	
03 21 11 00-0214	LF	#14, Grade 60, Walls, Steel Reinforcement Bar	.....	8.64	
		For Up To 100, Add		4.48	
		For >100 To 200, Add		2.36	
		For >200 To 300, Add		1.18	
03 21 11 00-0215	LF	#18, Grade 60, Walls, Steel Reinforcement Bar	.....	14.91	
		For Up To 100, Add		7.83	
		For >100 To 200, Add		4.10	
		For >200 To 300, Add		2.05	
03 21 11 00-0216	LF	#6, Grade 75, Walls, Steel Reinforcement Bar	.....	2.14	
		For Up To 100, Add		1.65	
		For >100 To 200, Add		0.87	
		For >200 To 500, Add		0.35	
03 21 11 00-0217	LF	#7, Grade 75, Walls, Steel Reinforcement Bar	.....	2.79	
		For Up To 100, Add		1.69	
		For >100 To 200, Add		0.97	
		For >200 To 400, Add		0.46	
03 21 11 00-0218	LF	#8, Grade 75, Walls, Steel Reinforcement Bar	.....	3.53	
		For Up To 100, Add		2.17	
		For >100 To 200, Add		1.23	
		For >200 To 400, Add		0.59	
03 21 11 00-0219	LF	#9, Grade 75, Walls, Steel Reinforcement Bar	.....	4.38	
		For Up To 100, Add		2.73	
		For >100 To 200, Add		1.54	
		For >200 To 400, Add		0.74	
03 21 11 00-0220	LF	#10, Grade 75, Walls, Steel Reinforcement Bar	.....	5.40	
		For Up To 100, Add		2.75	
		For >100 To 200, Add		1.46	
		For >200 To 300, Add		0.73	
03 21 11 00-0221	LF	#11, Grade 75, Walls, Steel Reinforcement Bar	.....	6.48	
		For Up To 100, Add		3.34	
		For >100 To 200, Add		1.76	
		For >200 To 300, Add		0.88	
03 21 11 00-0222	LF	#14, Grade 75, Walls, Steel Reinforcement Bar	.....	9.06	
		For Up To 100, Add		4.73	
		For >100 To 200, Add		2.48	
		For >200 To 300, Add		1.24	
03 21 11 00-0223	LF	#18, Grade 75, Walls, Steel Reinforcement Bar	.....	15.65	
		For Up To 100, Add		8.27	
		For >100 To 200, Add		4.32	
		For >200 To 300, Add		2.16	
03 21 11 00-0224	LF	#3, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	.....	0.58	
		For Up To 100, Add		0.42	
		For >100 To 200, Add		0.23	
		For >200 To 500, Add		0.09	
03 21 11 00-0225	LF	#4, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	.....	1.01	
		For Up To 100, Add		0.75	
		For >100 To 200, Add		0.40	
		For >200 To 500, Add		0.16	
03 21 11 00-0226	LF	#5, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	.....	1.52	
		For Up To 100, Add		1.15	
		For >100 To 200, Add		0.61	
		For >200 To 500, Add		0.24	
03 21 11 00-0227	LF	#6, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	.....	2.12	
		For Up To 100, Add		1.63	
		For >100 To 200, Add		0.86	
		For >200 To 500, Add		0.34	
03 21 11 00-0228	LF	#7, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	.....	2.77	
		For Up To 100, Add		1.68	
		For >100 To 200, Add		0.96	
		For >200 To 400, Add		0.45	
03 21 11 00-0229	LF	#8, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	.....	3.50	
		For Up To 100, Add		2.15	
		For >100 To 200, Add		1.22	
		For >200 To 400, Add		0.58	
03 21 11 00-0230	LF	#9, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	.....	4.34	
		For Up To 100, Add		2.70	
		For >100 To 200, Add		1.53	
		For >200 To 400, Add		0.73	
03 21 11 00-0231	LF	#10, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	.....	5.34	
		For Up To 100, Add		2.72	
		For >100 To 200, Add		1.44	
		For >200 To 300, Add		0.72	
03 21 11 00-0232	LF	#11, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	.....	6.41	
		For Up To 100, Add		3.30	
		For >100 To 200, Add		1.74	
		For >200 To 300, Add		0.87	
03 21 11 00-0233	LF	#14, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	.....	8.96	
		For Up To 100, Add		4.67	
		For >100 To 200, Add		2.45	
		For >200 To 300, Add		1.23	

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0234 LF #18, Grade 60, Walls, Low Alloy Steel Reinforcement Bar For Up To 100, Add For >100 To 200, Add For >200 To 300, Add	15.47 8.17 4.27 2.13	
03 21 11 00-0235 Mechanical Joint Connection (03 21 11)		
03 21 11 00-0236 Thermal Type Mechanical Joint Connection (03 21 11 00-0235)		
03 21 11 00-0237 EA Thermal Type Mechanical Joint Connection, Add Per Splice	226.05	
03 21 11 00-0238 Screwed Type Mechanical Joint Connection (03 21 11 00-0235)		
03 21 11 00-0239 EA Screwed Type Mechanical Joint Connection, Add Per Splice	123.76	
03 21 11 00-0240 Deformed Straight Dowels (03 21 11) Note: Excludes drilling. See CSI section 02 41 19 13-0215 for drilling in concrete.		
03 21 11 00-0241 EA 3/8" Diameter x 24" Long, Deformed Straight Dowel For Up To 12" Length, Deduct For >12" To <24" Length, Deduct	2.97 -0.34 -0.17	
03 21 11 00-0242 EA 1/2" Diameter x 24" Long, Deformed Straight Dowel For Up To 12" Length, Deduct For >12" To <24" Length, Deduct	3.56 -0.46 -0.23	
03 21 11 00-0243 EA 5/8" Diameter x 24" Long, Deformed Straight Dowel For Up To 12" Length, Deduct For >12" To <24" Length, Deduct	4.34 -0.72 -0.36	
03 21 11 00-0244 EA 3/4" Diameter x 24" Long, Deformed Straight Dowel For Up To 12" Length, Deduct For >12" To <24" Length, Deduct	5.27 -1.03 -0.52	
03 21 11 00-0245 EA 7/8" Diameter x 24" Long, Deformed Straight Dowel For Up To 12" Length, Deduct For >12" To <24" Length, Deduct	6.21 -1.44 -0.72	
03 21 11 00-0246 EA 1" Diameter x 24" Long, Deformed Straight Dowel For Up To 12" Length, Deduct For >12" To <24" Length, Deduct	7.83 -1.84 -0.92	
03 21 11 00-0247 EA 1-1/8" Diameter x 24" Long, Deformed Straight Dowel For Up To 12" Length, Deduct For >12" To <24" Length, Deduct	9.22 -2.28 -1.14	
03 21 11 00-0248 EA 1-1/4" Diameter x 24" Long, Deformed Straight Dowel For Up To 12" Length, Deduct For >12" To <24" Length, Deduct	11.29 -2.97 -1.49	
03 21 11 00-0249 EA 1-3/8" Diameter x 24" Long, Deformed Straight Dowel For Up To 12" Length, Deduct For >12" To <24" Length, Deduct	13.40 -3.67 -1.84	
03 21 11 00-0250 Spirals, Reinforcing Steel (03 21 11)		
03 21 11 00-0251 TON Up To 15" Diameter, Grade 60, Spirals, Reinforcing Steel For Grade 75, Add	3,461.54 130.37	
03 21 11 00-0252 TON >15" To 24" Diameter, Grade 60, Spirals, Reinforcing Steel For Grade 75, Add	3,420.17 130.37	
03 21 11 00-0253 TON >24" To 36" Diameter, Grade 60, Spirals, Reinforcing Steel For Grade 75, Add	3,388.64 130.37	
03 21 11 00-0254 TON >36" To 48" Diameter, Grade 60, Spirals, Reinforcing Steel For Grade 75, Add	3,337.04 130.37	
03 21 11 00-0255 TON >48" To 64" Diameter, Grade 60, Spirals, Reinforcing Steel For Grade 75, Add	3,267.27 130.37	
03 21 11 00-0256 TON >64" To 84" Diameter, Grade 60, Spirals, Reinforcing Steel For Grade 75, Add	3,241.02 133.58	
03 21 11 00-0257 TON >84" To 96" Diameter, Grade 60, Spirals, Reinforcing Steel For Grade 75, Add	3,182.62 133.58	
03 21 11 00-0258 Dowel Or Hairpin, Drilled And Epoxy Into Concrete (03 21 11)		
03 21 11 00-0259 EA Dowels Or Hairpin, 1/2" x 30" Length, Drilled And Epoxy In Concrete, 6" Embedment	28.86	
03 21 11 00-0260 EA Dowels Or Hairpin, 1/2" x 36" Length, Drilled And Epoxy In Concrete, >6" To 12" Embedment	30.16	
03 21 11 00-0261 Accessories For Reinforcing Steel (03 21 11)		
03 21 11 00-0262 Reinforcing Steel Lap-Weld Splice (03 21 11 00-0261)		
03 21 11 00-0263 EA Up To #6 Reinforcing Steel Lap-Weld Splice	60.12	
03 21 11 00-0264 EA >#6 Reinforcing Steel Lap-Weld Splice	95.53	
03 21 11 00-0265 Reinforcing Steel Sleeve And Wedge Splice Joint (03 21 11 00-0261)		
03 21 11 00-0266 EA Up To #4 Reinforcing Steel, Sleeve And Wedge Splice Joint	32.74	
03 21 11 00-0267 EA #5 Reinforcing Steel, Sleeve And Wedge Splice Joint	49.45	
03 21 11 00-0268 EA #6 Reinforcing Steel, Sleeve And Wedge Splice Joint	73.19	



		Concrete	03	CS
		Concrete Reinforcing	03 20	
		Reinforcement Bars	03 21	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

03 21 13 Galvanized Reinforcement Steel Bars (03 21)

03 21 13 00-0001 Beams And Girders, Galvanized Steel Reinforcement Bar (03 21 13)

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 21 13 00-0002	LF	#3, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	0.83	
		For Up To 100, Add	0.58	
		For >100 To 200, Add	0.31	
		For >200 To 500, Add	0.13	
03 21 13 00-0003	LF	#4, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	1.40	
		For Up To 100, Add	1.00	
		For >100 To 200, Add	0.54	
		For >200 To 500, Add	0.21	
03 21 13 00-0004	LF	#5, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	2.10	
		For Up To 100, Add	1.53	
		For >100 To 200, Add	0.81	
		For >200 To 500, Add	0.33	
03 21 13 00-0005	LF	#6, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar	2.93	
		For Up To 100, Add	2.17	
		For >100 To 200, Add	1.15	
		For >200 To 500, Add	0.46	
03 21 13 00-0006	LF	#3, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	0.84	
		For Up To 100, Add	0.59	
		For >100 To 200, Add	0.32	
		For >200 To 500, Add	0.13	
03 21 13 00-0007	LF	#4, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	1.42	
		For Up To 100, Add	1.02	
		For >100 To 200, Add	0.55	
		For >200 To 500, Add	0.22	
03 21 13 00-0008	LF	#5, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	2.14	
		For Up To 100, Add	1.57	
		For >100 To 200, Add	0.83	
		For >200 To 500, Add	0.33	
03 21 13 00-0009	LF	#6, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar	2.98	
		For Up To 100, Add	2.22	
		For >100 To 200, Add	1.17	
		For >200 To 500, Add	0.47	
03 21 13 00-0010	LF	#3, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	0.86	
		For Up To 100, Add	0.61	
		For >100 To 200, Add	0.33	
		For >200 To 500, Add	0.13	
03 21 13 00-0011	LF	#4, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	1.46	
		For Up To 100, Add	1.06	
		For >100 To 200, Add	0.57	
		For >200 To 500, Add	0.23	
03 21 13 00-0012	LF	#5, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	2.20	
		For Up To 100, Add	1.63	
		For >100 To 200, Add	0.86	
		For >200 To 500, Add	0.35	
03 21 13 00-0013	LF	#6, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	3.07	
		For Up To 100, Add	2.31	
		For >100 To 200, Add	1.22	
		For >200 To 500, Add	0.49	
03 21 13 00-0014	LF	#7, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	4.01	
		For Up To 100, Add	2.38	
		For >100 To 200, Add	1.37	
		For >200 To 400, Add	0.65	
03 21 13 00-0015	LF	#8, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	5.03	
		For Up To 100, Add	3.04	
		For >100 To 200, Add	1.74	
		For >200 To 400, Add	0.82	
03 21 13 00-0016	LF	#9, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	6.21	
		For Up To 100, Add	3.80	
		For >100 To 200, Add	2.16	
		For >200 To 400, Add	1.03	
03 21 13 00-0017	LF	#10, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	7.64	
		For Up To 100, Add	3.84	
		For >100 To 200, Add	2.04	
		For >200 To 300, Add	1.02	
03 21 13 00-0018	LF	#11, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	9.15	
		For Up To 100, Add	4.65	
		For >100 To 200, Add	2.47	
		For >200 To 300, Add	1.23	
03 21 13 00-0019	LF	#14, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	12.78	
		For Up To 100, Add	6.58	
		For >100 To 200, Add	3.47	
		For >200 To 300, Add	1.74	
03 21 13 00-0020	LF	#18, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar	22.00	
		For Up To 100, Add	11.48	
		For >100 To 200, Add	6.03	
		For >200 To 300, Add	3.01	
03 21 13 00-0021	LF	#6, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	3.15	
		For Up To 100, Add	2.39	
		For >100 To 200, Add	1.26	
		For >200 To 500, Add	0.50	

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0022	LF	#7, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	4.12	
		For Up To 100, Add	2.47	
		For >100 To 200, Add	1.41	
		For >200 To 400, Add	0.67	
03 21 13 00-0023	LF	#8, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	5.17	
		For Up To 100, Add	3.15	
		For >100 To 200, Add	1.79	
		For >200 To 400, Add	0.85	
03 21 13 00-0024	LF	#9, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	6.39	
		For Up To 100, Add	3.94	
		For >100 To 200, Add	2.24	
		For >200 To 400, Add	1.06	
03 21 13 00-0025	LF	#10, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	7.87	
		For Up To 100, Add	3.98	
		For >100 To 200, Add	2.11	
		For >200 To 300, Add	1.06	
03 21 13 00-0026	LF	#11, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	9.44	
		For Up To 100, Add	4.83	
		For >100 To 200, Add	2.55	
		For >200 To 300, Add	1.28	
03 21 13 00-0027	LF	#14, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	13.19	
		For Up To 100, Add	6.83	
		For >100 To 200, Add	3.60	
		For >200 To 300, Add	1.80	
03 21 13 00-0028	LF	#18, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar	22.74	
		For Up To 100, Add	11.93	
		For >100 To 200, Add	6.25	
		For >200 To 300, Add	3.13	
03 21 13 00-0029		Columns, Galvanized Steel Reinforcement Bar (03 21 13) Note: ASTM A-767 Hot Dipped Galvanized Steel.		
03 21 13 00-0030	LF	#3, Grade 40, Columns, Galvanized Steel Reinforcement Bar	0.86	
		For Up To 100, Add	0.60	
		For >100 To 200, Add	0.32	
		For >200 To 500, Add	0.13	
03 21 13 00-0031	LF	#4, Grade 40, Columns, Galvanized Steel Reinforcement Bar	1.47	
		For Up To 100, Add	1.03	
		For >100 To 200, Add	0.55	
		For >200 To 500, Add	0.22	
03 21 13 00-0032	LF	#5, Grade 40, Columns, Galvanized Steel Reinforcement Bar	2.20	
		For Up To 100, Add	1.57	
		For >100 To 200, Add	0.84	
		For >200 To 500, Add	0.34	
03 21 13 00-0033	LF	#6, Grade 40, Columns, Galvanized Steel Reinforcement Bar	3.05	
		For Up To 100, Add	2.22	
		For >100 To 200, Add	1.18	
		For >200 To 500, Add	0.47	
03 21 13 00-0034	LF	#3, Grade 50, Columns, Galvanized Steel Reinforcement Bar	0.87	
		For Up To 100, Add	0.61	
		For >100 To 200, Add	0.33	
		For >200 To 500, Add	0.13	
03 21 13 00-0035	LF	#4, Grade 50, Columns, Galvanized Steel Reinforcement Bar	1.49	
		For Up To 100, Add	1.05	
		For >100 To 200, Add	0.56	
		For >200 To 500, Add	0.23	
03 21 13 00-0036	LF	#5, Grade 50, Columns, Galvanized Steel Reinforcement Bar	2.24	
		For Up To 100, Add	1.61	
		For >100 To 200, Add	0.86	
		For >200 To 500, Add	0.34	
03 21 13 00-0037	LF	#6, Grade 50, Columns, Galvanized Steel Reinforcement Bar	3.10	
		For Up To 100, Add	2.27	
		For >100 To 200, Add	1.20	
		For >200 To 500, Add	0.48	
03 21 13 00-0038	LF	#3, Grade 60, Columns, Galvanized Steel Reinforcement Bar	0.89	
		For Up To 100, Add	0.63	
		For >100 To 200, Add	0.34	
		For >200 To 500, Add	0.13	
03 21 13 00-0039	LF	#4, Grade 60, Columns, Galvanized Steel Reinforcement Bar	1.53	
		For Up To 100, Add	1.09	
		For >100 To 200, Add	0.58	
		For >200 To 500, Add	0.23	
03 21 13 00-0040	LF	#5, Grade 60, Columns, Galvanized Steel Reinforcement Bar	2.30	
		For Up To 100, Add	1.67	
		For >100 To 200, Add	0.89	
		For >200 To 500, Add	0.36	
03 21 13 00-0041	LF	#6, Grade 60, Columns, Galvanized Steel Reinforcement Bar	3.19	
		For Up To 100, Add	2.36	
		For >100 To 200, Add	1.25	
		For >200 To 500, Add	0.50	
03 21 13 00-0042	LF	#7, Grade 60, Columns, Galvanized Steel Reinforcement Bar	4.17	
		For Up To 100, Add	2.44	
		For >100 To 200, Add	1.41	
		For >200 To 400, Add	0.66	



	Concrete	03	
	Concrete Reinforcing	03 20	
	Reinforcement Bars	03 21	

CS

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0043	LF	#8, Grade 60, Columns, Galvanized Steel Reinforcement Bar	.....	5.21	
		For Up To 100, Add		3.10	
		For >100 To 200, Add		1.78	
		For >200 To 400, Add		0.84	
03 21 13 00-0044	LF	#9, Grade 60, Columns, Galvanized Steel Reinforcement Bar	.....	6.42	
		For Up To 100, Add		3.88	
		For >100 To 200, Add		2.22	
		For >200 To 400, Add		1.05	
03 21 13 00-0045	LF	#10, Grade 60, Columns, Galvanized Steel Reinforcement Bar	.....	7.88	
		For Up To 100, Add		3.91	
		For >100 To 200, Add		2.09	
		For >200 To 300, Add		1.05	
03 21 13 00-0046	LF	#11, Grade 60, Columns, Galvanized Steel Reinforcement Bar	.....	9.43	
		For Up To 100, Add		4.74	
		For >100 To 200, Add		2.52	
		For >200 To 300, Add		1.26	
03 21 13 00-0047	LF	#14, Grade 60, Columns, Galvanized Steel Reinforcement Bar	.....	13.15	
		For Up To 100, Add		6.69	
		For >100 To 200, Add		3.55	
		For >200 To 300, Add		1.77	
03 21 13 00-0048	LF	#18, Grade 60, Columns, Galvanized Steel Reinforcement Bar	.....	22.57	
		For Up To 100, Add		11.66	
		For >100 To 200, Add		6.14	
		For >200 To 300, Add		3.07	
03 21 13 00-0049	LF	#6, Grade 75, Columns, Galvanized Steel Reinforcement Bar	.....	3.27	
		For Up To 100, Add		2.44	
		For >100 To 200, Add		1.29	
		For >200 To 500, Add		0.52	
03 21 13 00-0050	LF	#7, Grade 75, Columns, Galvanized Steel Reinforcement Bar	.....	4.28	
		For Up To 100, Add		2.52	
		For >100 To 200, Add		1.45	
		For >200 To 400, Add		0.68	
03 21 13 00-0051	LF	#8, Grade 75, Columns, Galvanized Steel Reinforcement Bar	.....	5.35	
		For Up To 100, Add		3.21	
		For >100 To 200, Add		1.84	
		For >200 To 400, Add		0.87	
03 21 13 00-0052	LF	#9, Grade 75, Columns, Galvanized Steel Reinforcement Bar	.....	6.60	
		For Up To 100, Add		4.01	
		For >100 To 200, Add		2.29	
		For >200 To 400, Add		1.09	
03 21 13 00-0053	LF	#10, Grade 75, Columns, Galvanized Steel Reinforcement Bar	.....	8.11	
		For Up To 100, Add		4.05	
		For >100 To 200, Add		2.16	
		For >200 To 300, Add		1.08	
03 21 13 00-0054	LF	#11, Grade 75, Columns, Galvanized Steel Reinforcement Bar	.....	9.72	
		For Up To 100, Add		4.91	
		For >100 To 200, Add		2.61	
		For >200 To 300, Add		1.30	
03 21 13 00-0055	LF	#14, Grade 75, Columns, Galvanized Steel Reinforcement Bar	.....	13.56	
		For Up To 100, Add		6.94	
		For >100 To 200, Add		3.67	
		For >200 To 300, Add		1.83	
03 21 13 00-0056	LF	#18, Grade 75, Columns, Galvanized Steel Reinforcement Bar	.....	23.31	
		For Up To 100, Add		12.10	
		For >100 To 200, Add		6.36	
		For >200 To 300, Add		3.18	
03 21 13 00-0057		Footings, Galvanized Steel Reinforcement Bar (03 21 13)			
		Note: ASTM A-767 Hot Dipped Galvanized Steel.			
03 21 13 00-0058	LF	#3, Grade 40, Footings, Galvanized Steel Reinforcement Bar	.....	0.77	
		For Up To 100, Add		0.56	
		For >100 To 200, Add		0.30	
		For >200 To 500, Add		0.12	
03 21 13 00-0059	LF	#4, Grade 40, Footings, Galvanized Steel Reinforcement Bar	.....	1.30	
		For Up To 100, Add		0.96	
		For >100 To 200, Add		0.51	
		For >200 To 500, Add		0.20	
03 21 13 00-0060	LF	#5, Grade 40, Footings, Galvanized Steel Reinforcement Bar	.....	1.97	
		For Up To 100, Add		1.48	
		For >100 To 200, Add		0.78	
		For >200 To 500, Add		0.31	
03 21 13 00-0061	LF	#6, Grade 40, Footings, Galvanized Steel Reinforcement Bar	.....	2.74	
		For Up To 100, Add		2.09	
		For >100 To 200, Add		1.10	
		For >200 To 500, Add		0.44	
03 21 13 00-0062	LF	#3, Grade 50, Footings, Galvanized Steel Reinforcement Bar	.....	0.78	
		For Up To 100, Add		0.57	
		For >100 To 200, Add		0.30	
		For >200 To 500, Add		0.12	
03 21 13 00-0063	LF	#4, Grade 50, Footings, Galvanized Steel Reinforcement Bar	.....	1.32	
		For Up To 100, Add		0.98	
		For >100 To 200, Add		0.52	
		For >200 To 500, Add		0.21	

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0064 LF #5, Grade 50, Footings, Galvanized Steel Reinforcement Bar 2.01 For Up To 100, Add 1.52 For >100 To 200, Add 0.80 For >200 To 500, Add 0.32		
03 21 13 00-0065 LF #6, Grade 50, Footings, Galvanized Steel Reinforcement Bar 2.79 For Up To 100, Add 2.14 For >100 To 200, Add 1.13 For >200 To 500, Add 0.45		
03 21 13 00-0066 LF #3, Grade 60, Footings, Galvanized Steel Reinforcement Bar 0.80 For Up To 100, Add 0.59 For >100 To 200, Add 0.31 For >200 To 500, Add 0.13		
03 21 13 00-0067 LF #4, Grade 60, Footings, Galvanized Steel Reinforcement Bar 1.36 For Up To 100, Add 1.02 For >100 To 200, Add 0.54 For >200 To 500, Add 0.22		
03 21 13 00-0068 LF #5, Grade 60, Footings, Galvanized Steel Reinforcement Bar 2.07 For Up To 100, Add 1.58 For >100 To 200, Add 0.83 For >200 To 500, Add 0.33		
03 21 13 00-0069 LF #6, Grade 60, Footings, Galvanized Steel Reinforcement Bar 2.88 For Up To 100, Add 2.23 For >100 To 200, Add 1.17 For >200 To 500, Add 0.47		
03 21 13 00-0070 LF #7, Grade 60, Footings, Galvanized Steel Reinforcement Bar 3.78 For Up To 100, Add 2.30 For >100 To 200, Add 1.31 For >200 To 400, Add 0.62		
03 21 13 00-0071 LF #8, Grade 60, Footings, Galvanized Steel Reinforcement Bar 4.76 For Up To 100, Add 2.95 For >100 To 200, Add 1.67 For >200 To 400, Add 0.80		
03 21 13 00-0072 LF #9, Grade 60, Footings, Galvanized Steel Reinforcement Bar 5.89 For Up To 100, Add 3.69 For >100 To 200, Add 2.08 For >200 To 400, Add 1.00		
03 21 13 00-0073 LF #10, Grade 60, Footings, Galvanized Steel Reinforcement Bar 7.26 For Up To 100, Add 3.72 For >100 To 200, Add 1.97 For >200 To 300, Add 0.98		
03 21 13 00-0074 LF #11, Grade 60, Footings, Galvanized Steel Reinforcement Bar 8.73 For Up To 100, Add 4.53 For >100 To 200, Add 2.38 For >200 To 300, Add 1.19		
03 21 13 00-0075 LF #14, Grade 60, Footings, Galvanized Steel Reinforcement Bar 12.24 For Up To 100, Add 6.42 For >100 To 200, Add 3.36 For >200 To 300, Add 1.68		
03 21 13 00-0076 LF #18, Grade 60, Footings, Galvanized Steel Reinforcement Bar 21.13 For Up To 100, Add 11.22 For >100 To 200, Add 5.85 For >200 To 300, Add 2.93		
03 21 13 00-0077 LF #6, Grade 75, Footings, Galvanized Steel Reinforcement Bar 2.96 For Up To 100, Add 2.31 For >100 To 200, Add 1.21 For >200 To 500, Add 0.48		
03 21 13 00-0078 LF #7, Grade 75, Footings, Galvanized Steel Reinforcement Bar 3.89 For Up To 100, Add 2.39 For >100 To 200, Add 1.36 For >200 To 400, Add 0.65		
03 21 13 00-0079 LF #8, Grade 75, Footings, Galvanized Steel Reinforcement Bar 4.90 For Up To 100, Add 3.05 For >100 To 200, Add 1.73 For >200 To 400, Add 0.82		
03 21 13 00-0080 LF #9, Grade 75, Footings, Galvanized Steel Reinforcement Bar 6.07 For Up To 100, Add 3.82 For >100 To 200, Add 2.16 For >200 To 400, Add 1.03		
03 21 13 00-0081 LF #10, Grade 75, Footings, Galvanized Steel Reinforcement Bar 7.49 For Up To 100, Add 3.86 For >100 To 200, Add 2.04 For >200 To 300, Add 1.02		
03 21 13 00-0082 LF #11, Grade 75, Footings, Galvanized Steel Reinforcement Bar 9.02 For Up To 100, Add 4.70 For >100 To 200, Add 2.47 For >200 To 300, Add 1.23		
03 21 13 00-0083 LF #14, Grade 75, Footings, Galvanized Steel Reinforcement Bar 12.65 For Up To 100, Add 6.67 For >100 To 200, Add 3.49 For >200 To 300, Add 1.74		
03 21 13 00-0084 LF #18, Grade 75, Footings, Galvanized Steel Reinforcement Bar 21.87 For Up To 100, Add 11.67 For >100 To 200, Add 6.08 For >200 To 300, Add 3.04		



Concrete		03	CS
Concrete Reinforcing		03 20	
Reinforcement Bars		03 21	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
03 21 13 00-0085		Slab On Grade, Galvanized Steel Reinforcement Bar (03 21 13) Note: ASTM A-767 Hot Dipped Galvanized Steel.		
03 21 13 00-0086	LF	#3, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	0.74	
		For Up To 100, Add	0.55	
		For >100 To 200, Add	0.29	
		For >200 To 500, Add	0.12	
03 21 13 00-0087	LF	#4, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	1.27	
		For Up To 100, Add	0.95	
		For >100 To 200, Add	0.50	
		For >200 To 500, Add	0.20	
03 21 13 00-0088	LF	#5, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	1.91	
		For Up To 100, Add	1.45	
		For >100 To 200, Add	0.77	
		For >200 To 500, Add	0.31	
03 21 13 00-0089	LF	#6, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar	2.66	
		For Up To 100, Add	2.06	
		For >100 To 200, Add	1.08	
		For >200 To 500, Add	0.43	
03 21 13 00-0090	LF	#3, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	0.75	
		For Up To 100, Add	0.56	
		For >100 To 200, Add	0.30	
		For >200 To 500, Add	0.12	
03 21 13 00-0091	LF	#4, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	1.29	
		For Up To 100, Add	0.97	
		For >100 To 200, Add	0.51	
		For >200 To 500, Add	0.21	
03 21 13 00-0092	LF	#5, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	1.95	
		For Up To 100, Add	1.49	
		For >100 To 200, Add	0.79	
		For >200 To 500, Add	0.31	
03 21 13 00-0093	LF	#6, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar	2.71	
		For Up To 100, Add	2.11	
		For >100 To 200, Add	1.11	
		For >200 To 500, Add	0.44	
03 21 13 00-0094	LF	#3, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	0.77	
		For Up To 100, Add	0.58	
		For >100 To 200, Add	0.31	
		For >200 To 500, Add	0.12	
03 21 13 00-0095	LF	#4, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	1.33	
		For Up To 100, Add	1.01	
		For >100 To 200, Add	0.53	
		For >200 To 500, Add	0.21	
03 21 13 00-0096	LF	#5, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	2.01	
		For Up To 100, Add	1.55	
		For >100 To 200, Add	0.82	
		For >200 To 500, Add	0.33	
03 21 13 00-0097	LF	#6, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	2.80	
		For Up To 100, Add	2.20	
		For >100 To 200, Add	1.15	
		For >200 To 500, Add	0.46	
03 21 13 00-0098	LF	#7, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	3.70	
		For Up To 100, Add	2.28	
		For >100 To 200, Add	1.29	
		For >200 To 400, Add	0.62	
03 21 13 00-0099	LF	#8, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	4.66	
		For Up To 100, Add	2.91	
		For >100 To 200, Add	1.65	
		For >200 To 400, Add	0.79	
03 21 13 00-0100	LF	#9, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	5.79	
		For Up To 100, Add	3.65	
		For >100 To 200, Add	2.06	
		For >200 To 400, Add	0.99	
03 21 13 00-0101	LF	#10, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	7.14	
		For Up To 100, Add	3.69	
		For >100 To 200, Add	1.94	
		For >200 To 300, Add	0.97	
03 21 13 00-0102	LF	#11, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	8.60	
		For Up To 100, Add	4.49	
		For >100 To 200, Add	2.36	
		For >200 To 300, Add	1.18	
03 21 13 00-0103	LF	#14, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	12.05	
		For Up To 100, Add	6.36	
		For >100 To 200, Add	3.33	
		For >200 To 300, Add	1.66	
03 21 13 00-0104	LF	#18, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar	20.85	
		For Up To 100, Add	11.14	
		For >100 To 200, Add	5.80	
		For >200 To 300, Add	2.90	
03 21 13 00-0105	LF	#6, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	2.88	
		For Up To 100, Add	2.28	
		For >100 To 200, Add	1.19	
		For >200 To 500, Add	0.48	
03 21 13 00-0106	LF	#7, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	3.81	
		For Up To 100, Add	2.36	
		For >100 To 200, Add	1.34	
		For >200 To 400, Add	0.64	

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0107	LF	#8, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	4.80	
		For Up To 100, Add		3.02	
		For >100 To 200, Add		1.70	
		For >200 To 400, Add		0.81	
03 21 13 00-0108	LF	#9, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	5.97	
		For Up To 100, Add		3.79	
		For >100 To 200, Add		2.13	
		For >200 To 400, Add		1.02	
03 21 13 00-0109	LF	#10, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	7.37	
		For Up To 100, Add		3.83	
		For >100 To 200, Add		2.01	
		For >200 To 300, Add		1.01	
03 21 13 00-0110	LF	#11, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	8.89	
		For Up To 100, Add		4.66	
		For >100 To 200, Add		2.44	
		For >200 To 300, Add		1.22	
03 21 13 00-0111	LF	#14, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	12.46	
		For Up To 100, Add		6.61	
		For >100 To 200, Add		3.45	
		For >200 To 300, Add		1.72	
03 21 13 00-0112	LF	#18, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar	.....	21.59	
		For Up To 100, Add		11.58	
		For >100 To 200, Add		6.02	
		For >200 To 300, Add		3.01	
03 21 13 00-0113		Elevated Slabs, Galvanized Steel Reinforcement Bar (03 21 13)			
		Note: ASTM A-767 Hot Dipped Galvanized Steel.			
03 21 13 00-0114	LF	#3, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	0.70	
		For Up To 100, Add		0.53	
		For >100 To 200, Add		0.28	
		For >200 To 500, Add		0.11	
03 21 13 00-0115	LF	#4, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	1.20	
		For Up To 100, Add		0.92	
		For >100 To 200, Add		0.49	
		For >200 To 500, Add		0.19	
03 21 13 00-0116	LF	#5, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	1.82	
		For Up To 100, Add		1.42	
		For >100 To 200, Add		0.74	
		For >200 To 500, Add		0.30	
03 21 13 00-0117	LF	#6, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	2.54	
		For Up To 100, Add		2.01	
		For >100 To 200, Add		1.05	
		For >200 To 500, Add		0.42	
03 21 13 00-0118	LF	#3, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	0.71	
		For Up To 100, Add		0.54	
		For >100 To 200, Add		0.29	
		For >200 To 500, Add		0.11	
03 21 13 00-0119	LF	#4, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	1.22	
		For Up To 100, Add		0.94	
		For >100 To 200, Add		0.50	
		For >200 To 500, Add		0.20	
03 21 13 00-0120	LF	#5, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	1.86	
		For Up To 100, Add		1.46	
		For >100 To 200, Add		0.76	
		For >200 To 500, Add		0.31	
03 21 13 00-0121	LF	#6, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	2.59	
		For Up To 100, Add		2.06	
		For >100 To 200, Add		1.08	
		For >200 To 500, Add		0.43	
03 21 13 00-0122	LF	#3, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	0.73	
		For Up To 100, Add		0.56	
		For >100 To 200, Add		0.30	
		For >200 To 500, Add		0.12	
03 21 13 00-0123	LF	#4, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	1.26	
		For Up To 100, Add		0.98	
		For >100 To 200, Add		0.52	
		For >200 To 500, Add		0.21	
03 21 13 00-0124	LF	#5, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	1.92	
		For Up To 100, Add		1.52	
		For >100 To 200, Add		0.79	
		For >200 To 500, Add		0.32	
03 21 13 00-0125	LF	#6, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	2.68	
		For Up To 100, Add		2.15	
		For >100 To 200, Add		1.12	
		For >200 To 500, Add		0.45	
03 21 13 00-0126	LF	#7, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	3.55	
		For Up To 100, Add		2.22	
		For >100 To 200, Add		1.26	
		For >200 To 400, Add		0.60	
03 21 13 00-0127	LF	#8, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	.....	4.48	
		For Up To 100, Add		2.85	
		For >100 To 200, Add		1.60	
		For >200 To 400, Add		0.77	



Concrete		03	CS
Concrete Reinforcing		03 20	
Reinforcement Bars		03 21	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0128	LF	#9, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	5.58		
		For Up To 100, Add	3.58		
		For >100 To 200, Add	2.01		
		For >200 To 400, Add	0.97		
03 21 13 00-0129	LF	#10, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	6.90		
		For Up To 100, Add	3.62		
		For >100 To 200, Add	1.90		
		For >200 To 300, Add	0.95		
03 21 13 00-0130	LF	#11, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	8.32		
		For Up To 100, Add	4.40		
		For >100 To 200, Add	2.30		
		For >200 To 300, Add	1.15		
03 21 13 00-0131	LF	#14, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	11.69		
		For Up To 100, Add	6.26		
		For >100 To 200, Add	3.25		
		For >200 To 300, Add	1.63		
03 21 13 00-0132	LF	#18, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar	20.29		
		For Up To 100, Add	10.97		
		For >100 To 200, Add	5.69		
		For >200 To 300, Add	2.84		
03 21 13 00-0133	LF	#6, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	2.76		
		For Up To 100, Add	2.23		
		For >100 To 200, Add	1.16		
		For >200 To 500, Add	0.46		
03 21 13 00-0134	LF	#7, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	3.66		
		For Up To 100, Add	2.31		
		For >100 To 200, Add	1.30		
		For >200 To 400, Add	0.62		
03 21 13 00-0135	LF	#8, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	4.62		
		For Up To 100, Add	2.95		
		For >100 To 200, Add	1.66		
		For >200 To 400, Add	0.80		
03 21 13 00-0136	LF	#9, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	5.76		
		For Up To 100, Add	3.72		
		For >100 To 200, Add	2.08		
		For >200 To 400, Add	1.00		
03 21 13 00-0137	LF	#10, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	7.13		
		For Up To 100, Add	3.75		
		For >100 To 200, Add	1.96		
		For >200 To 300, Add	0.98		
03 21 13 00-0138	LF	#11, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	8.61		
		For Up To 100, Add	4.58		
		For >100 To 200, Add	2.39		
		For >200 To 300, Add	1.19		
03 21 13 00-0139	LF	#14, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	12.10		
		For Up To 100, Add	6.50		
		For >100 To 200, Add	3.38		
		For >200 To 300, Add	1.69		
03 21 13 00-0140	LF	#18, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar	21.03		
		For Up To 100, Add	11.42		
		For >100 To 200, Add	5.91		
		For >200 To 300, Add	2.95		
03 21 13 00-0141	Walls, Galvanized Steel Reinforcement Bar (03 21 13)				
	Note: ASTM A-767 Hot Dipped Galvanized Steel.				
03 21 13 00-0142	LF	#3, Grade 40, Walls, Galvanized Steel Reinforcement Bar	0.68		
		For Up To 100, Add	0.52		
		For >100 To 200, Add	0.28		
		For >200 To 500, Add	0.11		
03 21 13 00-0143	LF	#4, Grade 40, Walls, Galvanized Steel Reinforcement Bar	1.17		
		For Up To 100, Add	0.91		
		For >100 To 200, Add	0.48		
		For >200 To 500, Add	0.19		
03 21 13 00-0144	LF	#5, Grade 40, Walls, Galvanized Steel Reinforcement Bar	1.77		
		For Up To 100, Add	1.40		
		For >100 To 200, Add	0.73		
		For >200 To 500, Add	0.29		
03 21 13 00-0145	LF	#6, Grade 40, Walls, Galvanized Steel Reinforcement Bar	2.48		
		For Up To 100, Add	1.99		
		For >100 To 200, Add	1.04		
		For >200 To 500, Add	0.41		
03 21 13 00-0146	LF	#3, Grade 50, Walls, Galvanized Steel Reinforcement Bar	0.69		
		For Up To 100, Add	0.53		
		For >100 To 200, Add	0.28		
		For >200 To 500, Add	0.11		
03 21 13 00-0147	LF	#4, Grade 50, Walls, Galvanized Steel Reinforcement Bar	1.19		
		For Up To 100, Add	0.93		
		For >100 To 200, Add	0.49		
		For >200 To 500, Add	0.20		
03 21 13 00-0148	LF	#5, Grade 50, Walls, Galvanized Steel Reinforcement Bar	1.81		
		For Up To 100, Add	1.44		
		For >100 To 200, Add	0.75		
		For >200 To 500, Add	0.30		

03 Concrete**03 20 Concrete Reinforcing****03 21 Reinforcement Bars**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0149	LF	#6, Grade 50, Walls, Galvanized Steel Reinforcement Bar	.....	2.53	
		For Up To 100, Add		2.04	
		For >100 To 200, Add		1.06	
		For >200 To 500, Add		0.42	
03 21 13 00-0150	LF	#3, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	0.71	
		For Up To 100, Add		0.55	
		For >100 To 200, Add		0.29	
		For >200 To 500, Add		0.12	
03 21 13 00-0151	LF	#4, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	1.23	
		For Up To 100, Add		0.97	
		For >100 To 200, Add		0.51	
		For >200 To 500, Add		0.20	
03 21 13 00-0152	LF	#5, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	1.87	
		For Up To 100, Add		1.50	
		For >100 To 200, Add		0.78	
		For >200 To 500, Add		0.31	
03 21 13 00-0153	LF	#6, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	2.62	
		For Up To 100, Add		2.13	
		For >100 To 200, Add		1.11	
		For >200 To 500, Add		0.44	
03 21 13 00-0154	LF	#7, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	3.45	
		For Up To 100, Add		2.19	
		For >100 To 200, Add		1.23	
		For >200 To 400, Add		0.59	
03 21 13 00-0155	LF	#8, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	4.39	
		For Up To 100, Add		2.82	
		For >100 To 200, Add		1.58	
		For >200 To 400, Add		0.76	
03 21 13 00-0156	LF	#9, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	5.47	
		For Up To 100, Add		3.54	
		For >100 To 200, Add		1.98	
		For >200 To 400, Add		0.95	
03 21 13 00-0157	LF	#10, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	6.77	
		For Up To 100, Add		3.58	
		For >100 To 200, Add		1.87	
		For >200 To 300, Add		0.93	
03 21 13 00-0158	LF	#11, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	8.18	
		For Up To 100, Add		4.36	
		For >100 To 200, Add		2.27	
		For >200 To 300, Add		1.14	
03 21 13 00-0159	LF	#14, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	11.51	
		For Up To 100, Add		6.20	
		For >100 To 200, Add		3.22	
		For >200 To 300, Add		1.61	
03 21 13 00-0160	LF	#18, Grade 60, Walls, Galvanized Steel Reinforcement Bar	.....	20.00	
		For Up To 100, Add		10.88	
		For >100 To 200, Add		5.63	
		For >200 To 300, Add		2.81	
03 21 13 00-0161	LF	#6, Grade 75, Walls, Galvanized Steel Reinforcement Bar	.....	2.70	
		For Up To 100, Add		2.21	
		For >100 To 200, Add		1.15	
		For >200 To 500, Add		0.46	
03 21 13 00-0162	LF	#7, Grade 75, Walls, Galvanized Steel Reinforcement Bar	.....	3.56	
		For Up To 100, Add		2.27	
		For >100 To 200, Add		1.27	
		For >200 To 400, Add		0.61	
03 21 13 00-0163	LF	#8, Grade 75, Walls, Galvanized Steel Reinforcement Bar	.....	4.53	
		For Up To 100, Add		2.92	
		For >100 To 200, Add		1.63	
		For >200 To 400, Add		0.79	
03 21 13 00-0164	LF	#9, Grade 75, Walls, Galvanized Steel Reinforcement Bar	.....	5.65	
		For Up To 100, Add		3.68	
		For >100 To 200, Add		2.05	
		For >200 To 400, Add		0.99	
03 21 13 00-0165	LF	#10, Grade 75, Walls, Galvanized Steel Reinforcement Bar	.....	7.00	
		For Up To 100, Add		3.71	
		For >100 To 200, Add		1.94	
		For >200 To 300, Add		0.97	
03 21 13 00-0166	LF	#11, Grade 75, Walls, Galvanized Steel Reinforcement Bar	.....	8.47	
		For Up To 100, Add		4.54	
		For >100 To 200, Add		2.36	
		For >200 To 300, Add		1.18	
03 21 13 00-0167	LF	#14, Grade 75, Walls, Galvanized Steel Reinforcement Bar	.....	11.92	
		For Up To 100, Add		6.45	
		For >100 To 200, Add		3.34	
		For >200 To 300, Add		1.67	
03 21 13 00-0168	LF	#18, Grade 75, Walls, Galvanized Steel Reinforcement Bar	.....	20.74	
		For Up To 100, Add		11.33	
		For >100 To 200, Add		5.85	
		For >200 To 300, Add		2.93	

03 21 16 Epoxy-Coated Reinforcement Steel Bars (03 21)

03 21 16 00-0001 Beams And Girders, Epoxy Coated Steel Reinforcement Bar (03 21 16)

Note: ASTM A-775 Epoxy Coated Steel.



Concrete			03	CS
Concrete Reinforcing			03 20	
Reinforcement Bars			03 21	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0002	LF	#3, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	.....	0.81	
		For Up To 100, Add		0.56	
		For >100 To 200, Add		0.30	
		For >200 To 500, Add		0.12	
03 21 16 00-0003	LF	#4, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	.....	1.37	
		For Up To 100, Add		0.97	
		For >100 To 200, Add		0.52	
		For >200 To 500, Add		0.21	
03 21 16 00-0004	LF	#5, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	.....	2.06	
		For Up To 100, Add		1.49	
		For >100 To 200, Add		0.79	
		For >200 To 500, Add		0.32	
03 21 16 00-0005	LF	#6, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	.....	2.87	
		For Up To 100, Add		2.11	
		For >100 To 200, Add		1.12	
		For >200 To 500, Add		0.45	
03 21 16 00-0006	LF	#3, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	.....	0.82	
		For Up To 100, Add		0.57	
		For >100 To 200, Add		0.31	
		For >200 To 500, Add		0.12	
03 21 16 00-0007	LF	#4, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	.....	1.40	
		For Up To 100, Add		1.00	
		For >100 To 200, Add		0.54	
		For >200 To 500, Add		0.21	
03 21 16 00-0008	LF	#5, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	.....	2.10	
		For Up To 100, Add		1.53	
		For >100 To 200, Add		0.81	
		For >200 To 500, Add		0.33	
03 21 16 00-0009	LF	#6, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	.....	2.92	
		For Up To 100, Add		2.16	
		For >100 To 200, Add		1.14	
		For >200 To 500, Add		0.46	
03 21 16 00-0010	LF	#3, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	.....	0.84	
		For Up To 100, Add		0.59	
		For >100 To 200, Add		0.32	
		For >200 To 500, Add		0.13	
03 21 16 00-0011	LF	#4, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	.....	1.43	
		For Up To 100, Add		1.03	
		For >100 To 200, Add		0.55	
		For >200 To 500, Add		0.22	
03 21 16 00-0012	LF	#5, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	.....	2.16	
		For Up To 100, Add		1.59	
		For >100 To 200, Add		0.84	
		For >200 To 500, Add		0.34	
03 21 16 00-0013	LF	#6, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	.....	3.01	
		For Up To 100, Add		2.25	
		For >100 To 200, Add		1.19	
		For >200 To 500, Add		0.48	
03 21 16 00-0014	LF	#7, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	.....	3.92	
		For Up To 100, Add		2.32	
		For >100 To 200, Add		1.33	
		For >200 To 400, Add		0.63	
03 21 16 00-0015	LF	#8, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	.....	4.92	
		For Up To 100, Add		2.96	
		For >100 To 200, Add		1.69	
		For >200 To 400, Add		0.80	
03 21 16 00-0016	LF	#9, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	.....	6.07	
		For Up To 100, Add		3.70	
		For >100 To 200, Add		2.11	
		For >200 To 400, Add		1.00	
03 21 16 00-0017	LF	#10, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	.....	7.46	
		For Up To 100, Add		3.73	
		For >100 To 200, Add		1.99	
		For >200 To 300, Add		0.99	
03 21 16 00-0018	LF	#11, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	.....	8.93	
		For Up To 100, Add		4.52	
		For >100 To 200, Add		2.40	
		For >200 To 300, Add		1.20	
03 21 16 00-0019	LF	#14, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	.....	12.46	
		For Up To 100, Add		6.39	
		For >100 To 200, Add		3.38	
		For >200 To 300, Add		1.69	
03 21 16 00-0020	LF	#18, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	.....	21.44	
		For Up To 100, Add		11.15	
		For >100 To 200, Add		5.86	
		For >200 To 300, Add		2.93	
03 21 16 00-0021	LF	#6, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	.....	3.09	
		For Up To 100, Add		2.33	
		For >100 To 200, Add		1.23	
		For >200 To 500, Add		0.49	
03 21 16 00-0022	LF	#7, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	.....	4.03	
		For Up To 100, Add		2.40	
		For >100 To 200, Add		1.38	
		For >200 To 400, Add		0.65	

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0023	LF	#8, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	.....	5.06	
		For Up To 100, Add		3.06	
		For >100 To 200, Add		1.75	
		For >200 To 400, Add		0.83	
03 21 16 00-0024	LF	#9, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	.....	6.26	
		For Up To 100, Add		3.84	
		For >100 To 200, Add		2.18	
		For >200 To 400, Add		1.04	
03 21 16 00-0025	LF	#10, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	.....	7.70	
		For Up To 100, Add		3.87	
		For >100 To 200, Add		2.06	
		For >200 To 300, Add		1.03	
03 21 16 00-0026	LF	#11, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	.....	9.22	
		For Up To 100, Add		4.70	
		For >100 To 200, Add		2.49	
		For >200 To 300, Add		1.24	
03 21 16 00-0027	LF	#14, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	.....	12.88	
		For Up To 100, Add		6.64	
		For >100 To 200, Add		3.50	
		For >200 To 300, Add		1.75	
03 21 16 00-0028	LF	#18, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar	.....	22.19	
		For Up To 100, Add		11.60	
		For >100 To 200, Add		6.09	
		For >200 To 300, Add		3.04	
03 21 16 00-0029		Columns, Epoxy Coated Steel Reinforcement Bar (03 21 16)			
		Note: ASTM A-775 Epoxy Coated Steel.			
03 21 16 00-0030	LF	#3, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	.....	0.84	
		For Up To 100, Add		0.58	
		For >100 To 200, Add		0.31	
		For >200 To 500, Add		0.12	
03 21 16 00-0031	LF	#4, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	.....	1.44	
		For Up To 100, Add		1.00	
		For >100 To 200, Add		0.54	
		For >200 To 500, Add		0.22	
03 21 16 00-0032	LF	#5, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	.....	2.16	
		For Up To 100, Add		1.53	
		For >100 To 200, Add		0.82	
		For >200 To 500, Add		0.33	
03 21 16 00-0033	LF	#6, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar	.....	2.99	
		For Up To 100, Add		2.16	
		For >100 To 200, Add		1.15	
		For >200 To 500, Add		0.46	
03 21 16 00-0034	LF	#3, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	.....	0.85	
		For Up To 100, Add		0.59	
		For >100 To 200, Add		0.32	
		For >200 To 500, Add		0.13	
03 21 16 00-0035	LF	#4, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	.....	1.47	
		For Up To 100, Add		1.03	
		For >100 To 200, Add		0.55	
		For >200 To 500, Add		0.22	
03 21 16 00-0036	LF	#5, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	.....	2.20	
		For Up To 100, Add		1.57	
		For >100 To 200, Add		0.84	
		For >200 To 500, Add		0.34	
03 21 16 00-0037	LF	#6, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar	.....	3.04	
		For Up To 100, Add		2.21	
		For >100 To 200, Add		1.17	
		For >200 To 500, Add		0.47	
03 21 16 00-0038	LF	#3, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	.....	0.87	
		For Up To 100, Add		0.61	
		For >100 To 200, Add		0.33	
		For >200 To 500, Add		0.13	
03 21 16 00-0039	LF	#4, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	.....	1.50	
		For Up To 100, Add		1.06	
		For >100 To 200, Add		0.57	
		For >200 To 500, Add		0.23	
03 21 16 00-0040	LF	#5, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	.....	2.26	
		For Up To 100, Add		1.63	
		For >100 To 200, Add		0.87	
		For >200 To 500, Add		0.35	
03 21 16 00-0041	LF	#6, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	.....	3.13	
		For Up To 100, Add		2.30	
		For >100 To 200, Add		1.22	
		For >200 To 500, Add		0.49	
03 21 16 00-0042	LF	#7, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	.....	4.08	
		For Up To 100, Add		2.37	
		For >100 To 200, Add		1.37	
		For >200 To 400, Add		0.64	
03 21 16 00-0043	LF	#8, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	.....	5.10	
		For Up To 100, Add		3.02	
		For >100 To 200, Add		1.74	
		For >200 To 400, Add		0.82	



	Concrete	03	
	Concrete Reinforcing	03 20	
	Reinforcement Bars	03 21	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0044	LF	#9, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	.....	6.28	
		For Up To 100, Add		3.77	
		For >100 To 200, Add		2.16	
		For >200 To 400, Add		1.02	
03 21 16 00-0045	LF	#10, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	.....	7.70	
		For Up To 100, Add		3.80	
		For >100 To 200, Add		2.04	
		For >200 To 300, Add		1.02	
03 21 16 00-0046	LF	#11, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	.....	9.21	
		For Up To 100, Add		4.61	
		For >100 To 200, Add		2.46	
		For >200 To 300, Add		1.23	
03 21 16 00-0047	LF	#14, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	.....	12.83	
		For Up To 100, Add		6.50	
		For >100 To 200, Add		3.45	
		For >200 To 300, Add		1.73	
03 21 16 00-0048	LF	#18, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar	.....	22.01	
		For Up To 100, Add		11.32	
		For >100 To 200, Add		5.97	
		For >200 To 300, Add		2.99	
03 21 16 00-0049	LF	#6, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	.....	3.21	
		For Up To 100, Add		2.38	
		For >100 To 200, Add		1.26	
		For >200 To 500, Add		0.50	
03 21 16 00-0050	LF	#7, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	.....	4.19	
		For Up To 100, Add		2.45	
		For >100 To 200, Add		1.42	
		For >200 To 400, Add		0.67	
03 21 16 00-0051	LF	#8, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	.....	5.24	
		For Up To 100, Add		3.13	
		For >100 To 200, Add		1.79	
		For >200 To 400, Add		0.85	
03 21 16 00-0052	LF	#9, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	.....	6.47	
		For Up To 100, Add		3.91	
		For >100 To 200, Add		2.24	
		For >200 To 400, Add		1.06	
03 21 16 00-0053	LF	#10, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	.....	7.94	
		For Up To 100, Add		3.95	
		For >100 To 200, Add		2.11	
		For >200 To 300, Add		1.05	
03 21 16 00-0054	LF	#11, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	.....	9.50	
		For Up To 100, Add		4.78	
		For >100 To 200, Add		2.54	
		For >200 To 300, Add		1.27	
03 21 16 00-0055	LF	#14, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	.....	13.25	
		For Up To 100, Add		6.75	
		For >100 To 200, Add		3.58	
		For >200 To 300, Add		1.79	
03 21 16 00-0056	LF	#18, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar	.....	22.76	
		For Up To 100, Add		11.77	
		For >100 To 200, Add		6.20	
		For >200 To 300, Add		3.10	
03 21 16 00-0057		Footings, Epoxy Coated Steel Reinforcement Bar	(03 21 16)		
		Note: ASTM A-775 Epoxy Coated Steel.			
03 21 16 00-0058	LF	#3, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	.....	0.75	
		For Up To 100, Add		0.54	
		For >100 To 200, Add		0.29	
		For >200 To 500, Add		0.12	
03 21 16 00-0059	LF	#4, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	.....	1.27	
		For Up To 100, Add		0.93	
		For >100 To 200, Add		0.50	
		For >200 To 500, Add		0.20	
03 21 16 00-0060	LF	#5, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	.....	1.93	
		For Up To 100, Add		1.44	
		For >100 To 200, Add		0.76	
		For >200 To 500, Add		0.30	
03 21 16 00-0061	LF	#6, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	.....	2.68	
		For Up To 100, Add		2.03	
		For >100 To 200, Add		1.07	
		For >200 To 500, Add		0.43	
03 21 16 00-0062	LF	#3, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	.....	0.76	
		For Up To 100, Add		0.55	
		For >100 To 200, Add		0.29	
		For >200 To 500, Add		0.12	
03 21 16 00-0063	LF	#4, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	.....	1.30	
03 21 16 00-0064	LF	#5, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	.....	1.97	
		For Up To 100, Add		1.48	
		For >100 To 200, Add		0.78	
		For >200 To 500, Add		0.31	
03 21 16 00-0065	LF	#6, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	.....	2.73	
		For Up To 100, Add		2.08	
		For >100 To 200, Add		1.10	
		For >200 To 500, Add		0.44	

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0066 LF #3, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	0.78	
For Up To 100, Add	0.57	
For >100 To 200, Add	0.30	
For >200 To 500, Add	0.12	
03 21 16 00-0067 LF #4, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	1.33	
For Up To 100, Add	0.99	
For >100 To 200, Add	0.53	
For >200 To 500, Add	0.21	
03 21 16 00-0068 LF #5, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	2.03	
For Up To 100, Add	1.54	
For >100 To 200, Add	0.81	
For >200 To 500, Add	0.32	
03 21 16 00-0069 LF #6, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	2.82	
For Up To 100, Add	2.17	
For >100 To 200, Add	1.14	
For >200 To 500, Add	0.46	
03 21 16 00-0070 LF #7, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	3.69	
For Up To 100, Add	2.24	
For >100 To 200, Add	1.28	
For >200 To 400, Add	0.61	
03 21 16 00-0071 LF #8, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	4.65	
For Up To 100, Add	2.86	
For >100 To 200, Add	1.63	
For >200 To 400, Add	0.77	
03 21 16 00-0072 LF #9, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	5.75	
For Up To 100, Add	3.58	
For >100 To 200, Add	2.03	
For >200 To 400, Add	0.97	
03 21 16 00-0073 LF #10, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	7.08	
For Up To 100, Add	3.62	
For >100 To 200, Add	1.91	
For >200 To 300, Add	0.96	
03 21 16 00-0074 LF #11, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	8.51	
For Up To 100, Add	4.40	
For >100 To 200, Add	2.32	
For >200 To 300, Add	1.16	
03 21 16 00-0075 LF #14, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	11.92	
For Up To 100, Add	6.23	
For >100 To 200, Add	3.27	
For >200 To 300, Add	1.63	
03 21 16 00-0076 LF #18, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	20.57	
For Up To 100, Add	10.89	
For >100 To 200, Add	5.69	
For >200 To 300, Add	2.84	
03 21 16 00-0077 LF #6, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	2.90	
For Up To 100, Add	2.25	
For >100 To 200, Add	1.18	
For >200 To 500, Add	0.47	
03 21 16 00-0078 LF #7, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	3.80	
For Up To 100, Add	2.32	
For >100 To 200, Add	1.32	
For >200 To 400, Add	0.63	
03 21 16 00-0079 LF #8, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	4.79	
For Up To 100, Add	2.97	
For >100 To 200, Add	1.68	
For >200 To 400, Add	0.80	
03 21 16 00-0080 LF #9, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	5.94	
For Up To 100, Add	3.73	
For >100 To 200, Add	2.10	
For >200 To 400, Add	1.01	
03 21 16 00-0081 LF #10, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	7.32	
For Up To 100, Add	3.76	
For >100 To 200, Add	1.99	
For >200 To 300, Add	0.99	
03 21 16 00-0082 LF #11, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	8.80	
For Up To 100, Add	4.57	
For >100 To 200, Add	2.40	
For >200 To 300, Add	1.20	
03 21 16 00-0083 LF #14, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	12.34	
For Up To 100, Add	6.48	
For >100 To 200, Add	3.39	
For >200 To 300, Add	1.70	
03 21 16 00-0084 LF #18, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	21.32	
For Up To 100, Add	11.34	
For >100 To 200, Add	5.91	
For >200 To 300, Add	2.96	
03 21 16 00-0085 Slab On Grade, Epoxy Coated Steel Reinforcement Bar (03 21 16)		
Note: ASTM A-775 Epoxy Coated Steel.		
03 21 16 00-0086 LF #3, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	0.72	
For Up To 100, Add	0.53	
For >100 To 200, Add	0.28	
For >200 To 500, Add	0.11	



		Concrete	03	CS
		Concrete Reinforcing	03 20	
		Reinforcement Bars	03 21	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0087	LF	#4, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.24		
		For Up To 100, Add	0.92		
		For >100 To 200, Add	0.49		
		For >200 To 500, Add	0.20		
03 21 16 00-0088	LF	#5, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.87		
		For Up To 100, Add	1.41		
		For >100 To 200, Add	0.75		
		For >200 To 500, Add	0.30		
03 21 16 00-0089	LF	#6, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	2.60		
		For Up To 100, Add	2.00		
		For >100 To 200, Add	1.05		
		For >200 To 500, Add	0.42		
03 21 16 00-0090	LF	#3, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	0.73		
		For Up To 100, Add	0.54		
		For >100 To 200, Add	0.29		
		For >200 To 500, Add	0.11		
03 21 16 00-0091	LF	#4, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.27		
		For Up To 100, Add	0.95		
		For >100 To 200, Add	0.50		
		For >200 To 500, Add	0.20		
03 21 16 00-0092	LF	#5, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.91		
		For Up To 100, Add	1.45		
		For >100 To 200, Add	0.77		
		For >200 To 500, Add	0.31		
03 21 16 00-0093	LF	#6, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	2.65		
		For Up To 100, Add	2.05		
		For >100 To 200, Add	1.08		
		For >200 To 500, Add	0.43		
03 21 16 00-0094	LF	#3, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	0.75		
		For Up To 100, Add	0.56		
		For >100 To 200, Add	0.30		
		For >200 To 500, Add	0.12		
03 21 16 00-0095	LF	#4, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.30		
		For Up To 100, Add	0.98		
		For >100 To 200, Add	0.52		
		For >200 To 500, Add	0.21		
03 21 16 00-0096	LF	#5, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.97		
		For Up To 100, Add	1.51		
		For >100 To 200, Add	0.80		
		For >200 To 500, Add	0.32		
03 21 16 00-0097	LF	#6, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	2.74		
		For Up To 100, Add	2.14		
		For >100 To 200, Add	1.12		
		For >200 To 500, Add	0.45		
03 21 16 00-0098	LF	#7, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	3.61		
		For Up To 100, Add	2.21		
		For >100 To 200, Add	1.26		
		For >200 To 400, Add	0.60		
03 21 16 00-0099	LF	#8, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	4.55		
		For Up To 100, Add	2.83		
		For >100 To 200, Add	1.60		
		For >200 To 400, Add	0.76		
03 21 16 00-0100	LF	#9, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	5.65		
		For Up To 100, Add	3.55		
		For >100 To 200, Add	2.00		
		For >200 To 400, Add	0.96		
03 21 16 00-0101	LF	#10, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	6.96		
		For Up To 100, Add	3.58		
		For >100 To 200, Add	1.89		
		For >200 To 300, Add	0.94		
03 21 16 00-0102	LF	#11, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	8.38		
		For Up To 100, Add	4.36		
		For >100 To 200, Add	2.29		
		For >200 To 300, Add	1.15		
03 21 16 00-0103	LF	#14, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	11.73		
		For Up To 100, Add	6.17		
		For >100 To 200, Add	3.23		
		For >200 To 300, Add	1.62		
03 21 16 00-0104	LF	#18, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	20.29		
		For Up To 100, Add	10.80		
		For >100 To 200, Add	5.63		
		For >200 To 300, Add	2.82		
03 21 16 00-0105	LF	#6, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	2.82		
		For Up To 100, Add	2.22		
		For >100 To 200, Add	1.16		
		For >200 To 500, Add	0.46		
03 21 16 00-0106	LF	#7, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	3.72		
		For Up To 100, Add	2.29		
		For >100 To 200, Add	1.30		
		For >200 To 400, Add	0.62		
03 21 16 00-0107	LF	#8, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	4.69		
		For Up To 100, Add	2.93		
		For >100 To 200, Add	1.66		
		For >200 To 400, Add	0.79		

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0108	LF		#9, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	5.84	
			For Up To 100, Add	3.69	
			For >100 To 200, Add	2.08	
			For >200 To 400, Add	1.00	
03 21 16 00-0109	LF		#10, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	7.20	
			For Up To 100, Add	3.72	
			For >100 To 200, Add	1.96	
			For >200 To 300, Add	0.98	
03 21 16 00-0110	LF		#11, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	8.67	
			For Up To 100, Add	4.53	
			For >100 To 200, Add	2.38	
			For >200 To 300, Add	1.19	
03 21 16 00-0111	LF		#14, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	12.15	
			For Up To 100, Add	6.42	
			For >100 To 200, Add	3.36	
			For >200 To 300, Add	1.68	
03 21 16 00-0112	LF		#18, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	21.04	
			For Up To 100, Add	11.25	
			For >100 To 200, Add	5.86	
			For >200 To 300, Add	2.93	
03 21 16 00-0113 Elevated Slabs, Epoxy Coated Steel Reinforcement Bar (03 21 16)					
Note: ASTM A-775 Epoxy Coated Steel.					
03 21 16 00-0114	LF		#3, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	0.68	
			For Up To 100, Add	0.51	
			For >100 To 200, Add	0.27	
			For >200 To 500, Add	0.11	
03 21 16 00-0115	LF		#4, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.17	
			For Up To 100, Add	0.89	
			For >100 To 200, Add	0.47	
			For >200 To 500, Add	0.19	
03 21 16 00-0116	LF		#5, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.78	
			For Up To 100, Add	1.38	
			For >100 To 200, Add	0.72	
			For >200 To 500, Add	0.29	
03 21 16 00-0117	LF		#6, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.48	
			For Up To 100, Add	1.95	
			For >100 To 200, Add	1.02	
			For >200 To 500, Add	0.41	
03 21 16 00-0118	LF		#3, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	0.69	
			For Up To 100, Add	0.52	
			For >100 To 200, Add	0.28	
			For >200 To 500, Add	0.11	
03 21 16 00-0119	LF		#4, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.20	
			For Up To 100, Add	0.92	
			For >100 To 200, Add	0.49	
			For >200 To 500, Add	0.19	
03 21 16 00-0120	LF		#5, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.82	
			For Up To 100, Add	1.42	
			For >100 To 200, Add	0.74	
			For >200 To 500, Add	0.30	
03 21 16 00-0121	LF		#6, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.53	
			For Up To 100, Add	2.00	
			For >100 To 200, Add	1.05	
			For >200 To 500, Add	0.42	
03 21 16 00-0122	LF		#3, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	0.71	
			For Up To 100, Add	0.54	
			For >100 To 200, Add	0.29	
			For >200 To 500, Add	0.11	
03 21 16 00-0123	LF		#4, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.23	
			For Up To 100, Add	0.95	
			For >100 To 200, Add	0.50	
			For >200 To 500, Add	0.20	
03 21 16 00-0124	LF		#5, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.88	
			For Up To 100, Add	1.48	
			For >100 To 200, Add	0.77	
			For >200 To 500, Add	0.31	
03 21 16 00-0125	LF		#6, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.62	
			For Up To 100, Add	2.09	
			For >100 To 200, Add	1.09	
			For >200 To 500, Add	0.44	
03 21 16 00-0126	LF		#7, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	3.46	
			For Up To 100, Add	2.16	
			For >100 To 200, Add	1.22	
			For >200 To 400, Add	0.58	
03 21 16 00-0127	LF		#8, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	4.37	
			For Up To 100, Add	2.77	
			For >100 To 200, Add	1.56	
			For >200 To 400, Add	0.75	
03 21 16 00-0128	LF		#9, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	5.44	
			For Up To 100, Add	3.48	
			For >100 To 200, Add	1.95	
			For >200 To 400, Add	0.94	



		Concrete	03	CS
		Concrete Reinforcing	03 20	
		Reinforcement Bars	03 21	

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
03 21 16 00-0129	LF	#10, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....		6.72	
		For Up To 100, Add		3.51	
		For >100 To 200, Add		1.84	
		For >200 To 300, Add		0.92	
03 21 16 00-0130	LF	#11, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....		8.10	
		For Up To 100, Add		4.27	
		For >100 To 200, Add		2.23	
		For >200 To 300, Add		1.12	
03 21 16 00-0131	LF	#14, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....		11.37	
		For Up To 100, Add		6.06	
		For >100 To 200, Add		3.16	
		For >200 To 300, Add		1.58	
03 21 16 00-0132	LF	#18, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....		19.73	
		For Up To 100, Add		10.64	
		For >100 To 200, Add		5.52	
		For >200 To 300, Add		2.76	
03 21 16 00-0133	LF	#6, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....		2.70	
		For Up To 100, Add		2.17	
		For >100 To 200, Add		1.13	
		For >200 To 500, Add		0.45	
03 21 16 00-0134	LF	#7, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....		3.57	
		For Up To 100, Add		2.24	
		For >100 To 200, Add		1.26	
		For >200 To 400, Add		0.60	
03 21 16 00-0135	LF	#8, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....		4.51	
		For Up To 100, Add		2.87	
		For >100 To 200, Add		1.61	
		For >200 To 400, Add		0.77	
03 21 16 00-0136	LF	#9, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....		5.63	
		For Up To 100, Add		3.62	
		For >100 To 200, Add		2.03	
		For >200 To 400, Add		0.98	
03 21 16 00-0137	LF	#10, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....		6.96	
		For Up To 100, Add		3.65	
		For >100 To 200, Add		1.91	
		For >200 To 300, Add		0.96	
03 21 16 00-0138	LF	#11, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....		8.39	
		For Up To 100, Add		4.45	
		For >100 To 200, Add		2.32	
		For >200 To 300, Add		1.16	
03 21 16 00-0139	LF	#14, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....		11.79	
		For Up To 100, Add		6.32	
		For >100 To 200, Add		3.28	
		For >200 To 300, Add		1.64	
03 21 16 00-0140	LF	#18, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....		20.48	
		For Up To 100, Add		11.09	
		For >100 To 200, Add		5.74	
		For >200 To 300, Add		2.87	
03 21 16 00-0141		Walls, Epoxy Coated Steel Reinforcement Bar (03 21 16)			
		Note: ASTM A-775 Epoxy Coated Steel.			
03 21 16 00-0142	LF	#3, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....		0.66	
		For Up To 100, Add		0.50	
		For >100 To 200, Add		0.27	
		For >200 To 500, Add		0.11	
03 21 16 00-0143	LF	#4, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....		1.14	
		For Up To 100, Add		0.88	
		For >100 To 200, Add		0.46	
		For >200 To 500, Add		0.19	
03 21 16 00-0144	LF	#5, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....		1.73	
		For Up To 100, Add		1.36	
		For >100 To 200, Add		0.71	
		For >200 To 500, Add		0.28	
03 21 16 00-0145	LF	#6, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....		2.42	
		For Up To 100, Add		1.93	
		For >100 To 200, Add		1.01	
		For >200 To 500, Add		0.40	
03 21 16 00-0146	LF	#3, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....		0.67	
		For Up To 100, Add		0.51	
		For >100 To 200, Add		0.27	
		For >200 To 500, Add		0.11	
03 21 16 00-0147	LF	#4, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....		1.17	
		For Up To 100, Add		0.91	
		For >100 To 200, Add		0.48	
		For >200 To 500, Add		0.19	
03 21 16 00-0148	LF	#5, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....		1.77	
		For Up To 100, Add		1.40	
		For >100 To 200, Add		0.73	
		For >200 To 500, Add		0.29	
03 21 16 00-0149	LF	#6, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....		2.47	
		For Up To 100, Add		1.98	
		For >100 To 200, Add		1.03	
		For >200 To 500, Add		0.41	

03 Concrete
03 20 Concrete Reinforcing
03 21 Reinforcement Bars



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0150	LF	#3, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.69		
		For Up To 100, Add	0.53		
		For >100 To 200, Add	0.28		
		For >200 To 500, Add	0.11		
03 21 16 00-0151	LF	#4, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.20		
		For Up To 100, Add	0.94		
		For >100 To 200, Add	0.49		
		For >200 To 500, Add	0.20		
03 21 16 00-0152	LF	#5, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.83		
		For Up To 100, Add	1.46		
		For >100 To 200, Add	0.76		
		For >200 To 500, Add	0.30		
03 21 16 00-0153	LF	#6, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.56		
		For Up To 100, Add	2.07		
		For >100 To 200, Add	1.08		
		For >200 To 500, Add	0.43		
03 21 16 00-0154	LF	#7, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	3.36		
		For Up To 100, Add	2.12		
		For >100 To 200, Add	1.19		
		For >200 To 400, Add	0.57		
03 21 16 00-0155	LF	#8, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	4.28		
		For Up To 100, Add	2.73		
		For >100 To 200, Add	1.53		
		For >200 To 400, Add	0.74		
03 21 16 00-0156	LF	#9, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	5.33		
		For Up To 100, Add	3.44		
		For >100 To 200, Add	1.92		
		For >200 To 400, Add	0.93		
03 21 16 00-0157	LF	#10, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	6.59		
		For Up To 100, Add	3.47		
		For >100 To 200, Add	1.82		
		For >200 To 300, Add	0.91		
03 21 16 00-0158	LF	#11, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	7.96		
		For Up To 100, Add	4.23		
		For >100 To 200, Add	2.21		
		For >200 To 300, Add	1.10		
03 21 16 00-0159	LF	#14, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	11.19		
		For Up To 100, Add	6.01		
		For >100 To 200, Add	3.12		
		For >200 To 300, Add	1.56		
03 21 16 00-0160	LF	#18, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	19.44		
		For Up To 100, Add	10.55		
		For >100 To 200, Add	5.46		
		For >200 To 300, Add	2.73		
03 21 16 00-0161	LF	#6, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.64		
		For Up To 100, Add	2.15		
		For >100 To 200, Add	1.12		
		For >200 To 500, Add	0.45		
03 21 16 00-0162	LF	#7, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	3.47		
		For Up To 100, Add	2.20		
		For >100 To 200, Add	1.24		
		For >200 To 400, Add	0.59		
03 21 16 00-0163	LF	#8, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	4.42		
		For Up To 100, Add	2.84		
		For >100 To 200, Add	1.59		
		For >200 To 400, Add	0.77		
03 21 16 00-0164	LF	#9, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	5.52		
		For Up To 100, Add	3.58		
		For >100 To 200, Add	2.00		
		For >200 To 400, Add	0.96		
03 21 16 00-0165	LF	#10, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	6.83		
		For Up To 100, Add	3.61		
		For >100 To 200, Add	1.89		
		For >200 To 300, Add	0.94		
03 21 16 00-0166	LF	#11, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	8.25		
		For Up To 100, Add	4.40		
		For >100 To 200, Add	2.29		
		For >200 To 300, Add	1.15		
03 21 16 00-0167	LF	#14, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	11.61		
		For Up To 100, Add	6.26		
		For >100 To 200, Add	3.25		
		For >200 To 300, Add	1.62		
03 21 16 00-0168	LF	#18, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	20.19		
		For Up To 100, Add	11.00		
		For >100 To 200, Add	5.69		
		For >200 To 300, Add	2.84		
03 21 16 00-0169		Epoxy Coated Deformed Straight Dowels (03 21 16)			
		Note: Excludes drilling. See CSI section 02 41 19 13-0215 for drilling in concrete.			
03 21 16 00-0170	EA	3/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	4.95		
		For Up To 12" Length, Deduct	-0.48		
		For >12" To <24" Length, Deduct	-0.24		
03 21 16 00-0171	EA	1/2" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	5.81		
		For Up To 12" Length, Deduct	-0.73		
		For >12" To <24" Length, Deduct	-0.36		



	Concrete	03	
	Concrete Reinforcing	03 20	
	Reinforcement Bars	03 21	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0172 EA 5/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	7.19	
For Up To 12" Length, Deduct	-1.09	
For >12" To <24" Length, Deduct	-0.54	
03 21 16 00-0173 EA 3/4" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	8.93	
For Up To 12" Length, Deduct	-1.45	
For >12" To <24" Length, Deduct	-0.72	
03 21 16 00-0174 EA 7/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	10.72	
For Up To 12" Length, Deduct	-1.97	
For >12" To <24" Length, Deduct	-0.98	
03 21 16 00-0175 EA 1" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	12.46	
For Up To 12" Length, Deduct	-2.42	
For >12" To <24" Length, Deduct	-1.21	
03 21 16 00-0176 EA 1-1/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel	14.70	
For Up To 12" Length, Deduct	-2.93	
For >12" To <24" Length, Deduct	-1.47	
03 21 16 00-0177 EA 1-1/4" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel	17.70	
For Up To 12" Length, Deduct	-3.55	
For >12" To <24" Length, Deduct	-1.78	

03 22 Fabric and Grid Reinforcing (03 20)

03 22 11 Plain Steel Welded Wire Fabric Reinforcing (03 22)

Note: Includes cutting, tie wire, tying, overlap, bar chairs and all non-mechanical splicing.

03 22 11 00-0001 Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (03 22 11)

Note: Includes bar chairs. Under 5 tons. ASTM A-185

03 22 11 00-0002 SF 6" x 6" x #10, 21 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4)	0.99	
For >5 Ton, Deduct	-0.14	
03 22 11 00-0003 SF 6" x 6" x #8, 30 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1)	1.14	
For >5 Ton, Deduct	-0.16	
03 22 11 00-0004 SF 6" x 6" x #6, 42 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9)	1.33	
For >5 Ton, Deduct	-0.18	
03 22 11 00-0005 SF 6" x 6" x #4, 58 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0)	1.63	
For >5 Ton, Deduct	-0.22	
03 22 11 00-0006 SF 4" x 4" x #10, 31 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4)	1.21	
For >5 Ton, Deduct	-0.17	
03 22 11 00-0007 SF 4" x 4" x #8, 44 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1)	1.40	
For >5 Ton, Deduct	-0.19	
03 22 11 00-0008 SF 4" x 4" x #6, 62 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9)	1.86	
For >5 Ton, Deduct	-0.24	
03 22 11 00-0009 SF 4" x 4" x #4, 85 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0)	2.21	
For >5 Ton, Deduct	-0.28	
03 22 11 00-0010 SF 2" x 2" x #12, 37 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W0.9 x W0.9)	2.13	
For >5 Ton, Deduct	-0.26	

03 22 13 Galvanized Welded Wire Fabric Reinforcing (03 22)

03 22 13 00-0001 Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (03 22 13)

Note: Includes bar chairs. Under 5 tons.

03 22 13 00-0002 SF 6" x 6" x #10, 21 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4)	1.15	
For >5 Ton, Deduct	-0.16	
03 22 13 00-0003 SF 6" x 6" x #8, 29 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1)	1.32	
For >5 Ton, Deduct	-0.18	
03 22 13 00-0004 SF 6" x 6" x #6, 42 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9)	1.58	
For >5 Ton, Deduct	-0.21	
03 22 13 00-0005 SF 6" x 6" x #4, 58 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0)	1.97	
For >5 Ton, Deduct	-0.25	
03 22 13 00-0006 SF 4" x 4" x #10, 31 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4)	1.43	
For >5 Ton, Deduct	-0.19	
03 22 13 00-0007 SF 4" x 4" x #8, 43 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1)	1.67	
For >5 Ton, Deduct	-0.22	
03 22 13 00-0008 SF 4" x 4" x #6, 62 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9)	2.30	
For >5 Ton, Deduct	-0.28	
03 22 13 00-0009 SF 4" x 4" x #4, 85 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0)	2.76	
For >5 Ton, Deduct	-0.33	

03 22 13 00-0010 Galvanized Welded Wire Reinforcement Wrap Placed In Beams And Columns (03 22 13)

Note: Includes bar chairs. Under 5 tons.

03 22 13 00-0011 SF 2" x 2" x #14, 21 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Wrap Placed In Beams And Columns (W0.5 x W0.5).....	3.71	
For >5 Ton, Deduct	-0.55	

03 22 16 Epoxy-Coated Welded Wire Fabric Reinforcing (03 22)

03 22 16 00-0001 Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (03 22 16)

Note: Includes bar chairs. Under 5 tons.

03 22 16 00-0002 SF 6" x 6" x #10, 21 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	1.13	
For >5 Ton, Deduct	-0.16	

03 Concrete**03 20 Concrete Reinforcing****03 22 Fabric and Grid Reinforcing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 22 16 00-0003	SF		6" x 6" x #8, 29 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	1.30	
			<i>For >5 Ton, Deduct</i>	-0.18	
03 22 16 00-0004	SF		6" x 6" x #6, 42 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	1.55	
			<i>For >5 Ton, Deduct</i>	-0.21	
03 22 16 00-0005	SF		6" x 6" x #4, 58 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	1.93	
			<i>For >5 Ton, Deduct</i>	-0.25	
03 22 16 00-0006	SF		4" x 4" x #10, 31 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	1.40	
			<i>For >5 Ton, Deduct</i>	-0.19	
03 22 16 00-0007	SF		4" x 4" x #8, 43 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	1.64	
			<i>For >5 Ton, Deduct</i>	-0.21	
03 22 16 00-0008	SF		4" x 4" x #6, 62 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	2.25	
			<i>For >5 Ton, Deduct</i>	-0.28	
03 22 16 00-0009	SF		4" x 4" x #4, 85 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	2.69	
			<i>For >5 Ton, Deduct</i>	-0.33	
03 22 23			Stainless Steel Welded Wire Fabric Reinforcing ^(03 22)		
			Note: Includes cutting, tie wire, tying, overlap, bar chairs and all non-mechanical splicing.		
03 22 23 00-0001			Stainless Steel Welded Wire Fabric Reinforcing Placed In Floors Or Slabs		
			^(03 22 23)		
03 22 23 00-0002	SF		6" x 6" x #10, Stainless Steel Welded Wire Fabric Reinforcing Placed In Floors Or Slabs.....	2.18	
03 22 23 00-0003	SF		4" x 4" x #10, Stainless Steel Welded Wire Fabric Reinforcing Placed In Floors Or Slabs.....	2.84	
03 30 Cast-In-Place Concrete			⁽⁰³⁾		
			See CSI section 01 74 19 00-0029 for hauling over 15 miles.		
03 30 53 Miscellaneous Cast-in-Place Concrete			^(03 30)		
03 30 53 00-0001			Place Concrete Duct Bank ^(03 30 53)		
03 30 53 00-0002	CY		Direct Chute, Place 3,000 PSI Concrete Duct Bank.....	258.09	
			<i>For 2,000 PSI Concrete, Deduct</i>	-12.15	
			<i>For 2,500 PSI Concrete, Deduct</i>	-6.08	
			<i>For 3,500 PSI Concrete, Add</i>	11.25	
			<i>For 3,750 PSI Concrete, Add</i>	15.30	
			<i>For 4,000 PSI Concrete, Add</i>	19.35	
			<i>For 4,500 PSI Concrete, Add</i>	22.50	
			<i>For 5,000 PSI Concrete, Add</i>	25.65	
			<i>For 6,000 PSI Concrete, Add</i>	60.75	
			<i>For White Cement Concrete, Add</i>	27.00	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	29.25	
			<i>For High Early Strength, Type 3 ASTM C150, Add</i>	22.50	
			<i>For Lightweight Aggregate, ASTM C330, Add</i>	78.75	
			<i>For Up To 20, Add</i>	13.24	
			<i>For >20 To 50, Add</i>	4.96	
			<i>For >100 To 200, Deduct</i>	-5.16	
			<i>For >200 To 400, Deduct</i>	-10.32	
			<i>For >400, Deduct</i>	-15.49	
03 30 53 00-0003			Place Concrete Thrust Blocks And Backfill ^(03 30 53)		
03 30 53 00-0004	CY		Direct Chute, Place 3,000 PSI Concrete Thrust Blocks.....	299.72	
			<i>For 2,000 PSI Concrete, Deduct</i>	-12.15	
			<i>For 2,500 PSI Concrete, Deduct</i>	-6.08	
			<i>For 3,500 PSI Concrete, Add</i>	11.25	
			<i>For 3,750 PSI Concrete, Add</i>	15.30	
			<i>For 4,000 PSI Concrete, Add</i>	19.35	
			<i>For 4,500 PSI Concrete, Add</i>	22.50	
			<i>For 5,000 PSI Concrete, Add</i>	25.65	
			<i>For 6,000 PSI Concrete, Add</i>	60.75	
			<i>For White Cement Concrete, Add</i>	27.00	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	29.25	
			<i>For High Early Strength, Type 3 ASTM C150, Add</i>	22.50	
			<i>For Lightweight Aggregate, ASTM C330, Add</i>	78.75	
			<i>For Up To 20, Add</i>	29.89	
			<i>For >20 To 50, Add</i>	11.21	
			<i>For >100 To 200, Deduct</i>	-5.99	
			<i>For >200 To 400, Deduct</i>	-11.99	
			<i>For >400, Deduct</i>	-17.98	
03 30 53 00-0005			Place Concrete Slurry ^(03 30 53)		
03 30 53 00-0006	CY		Direct Chute, Place Two Sack Cement, Concrete Slurry.....	236.44	
			Note: Two 94# sack cement per CY.		
03 30 53 00-0007	CY		Concrete Pump, Place Two Sack Cement, Concrete Slurry.....	229.84	
			Note: Two 94# sack cement per CY. Excludes pumping equipment.		
03 30 53 00-0008			Hand Mix And Place Concrete ^(03 30 53)		



	Concrete	03	
	Cast-In-Place Concrete	03 30	
	Miscellaneous Cast-in-Place Concrete	03 30 53	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 30 53 00-0009	CF		Hand Mix And Place Concrete.....21.83 Note: For use where conventional equipment access is limited or when directed by the owner. Includes local aggregate, sand, bagged cement (Type I) and water. For Up To 25 CF, Add 2.66 For 2,000 PSI Concrete, Deduct -0.52 For 2,500 PSI Concrete, Deduct -0.26 For 3,500 PSI Concrete, Add 0.48 For 3,750 PSI Concrete, Add 0.65 For 4,000 PSI Concrete, Add 0.83 For 4,500 PSI Concrete, Add 0.96 For 5,000 PSI Concrete, Add 1.10 For 6,000 PSI Concrete, Add 2.60 For White Cement Concrete, Add 1.15 For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add 1.25 For High Early Strength, Type 3 ASTM C150, Add 0.96 For Lightweight Aggregate, ASTM C330, Add 3.37		

03 31 Structural Concrete (03 30)

03 31 13 Heavyweight Structural Concrete (03 31)

Note: Includes delivery, fuel charge and placement of material. See CSI section 02 41 00 00-0000 for demolition, 03 05 13 00-0001 for admixtures, 03 11 00 00-0000 for forming, 03 20 00 00-0000 for reinforcing, 03 31 13 00-0050 for small concrete purchases (short load), 03 35 00 00-0000 for finishing, 03 39 00 00-0000 for curing.

03 31 13 00-0001 Concrete Slab Assemblies (03 31 13)

03 31 13 00-0002 3,000 PSI Slab On Grade Concrete Slabs Assemblies (03 31 13 00-0001)

Note: Includes forms, welded wire reinforcement (where necessary), #3 to #6 reinforcing rods at 12" on center each way with chairs (where necessary), vapor barrier, concrete, curing, latex or hot asphalt expansion joints, control joints, screed, float, and finish for pedestrian slabs. Excludes excavation, base, earthwork, and expansion joints along existing slab. See CSI section 03 05 13 00-0001 for color additive alternative, 03 37 16 00-0001 for concrete pumping equipment.

03 31 13 00-0003	SF	4" 3,000 PSI Slab On Grade Concrete Slabs Assembly.....9.24	
		For 2,000 PSI Concrete, Deduct	-0.29
		For 2,500 PSI Concrete, Deduct	-0.15
		For 3,500 PSI Concrete, Add	0.10
		For 4,000 PSI Concrete, Add	0.34
		For 4,500 PSI Concrete, Add	0.43
		For Reinforcing Rods Are At 18" On Center, Deduct	-0.41
		For Reinforcing Rods Are At 24" On Center, Deduct	-0.61
		For Up To 500, Add	3.36
		For >500 To 1,000, Add	2.33
		For >1,000 To 2,000, Add	1.30
		For >2,000 To 5,000, Add	0.65
		For >10,000 To 20,000, Deduct	-0.27
		For >20,000 To 35,000, Deduct	-0.50
		For >35,000 To 50,000, Deduct	-0.74
		For >50,000 To 70,000, Deduct	-0.97
		For >70,000, Deduct	-1.20
03 31 13 00-0004	SF	5" 3,000 PSI Slab On Grade Concrete Slabs Assembly.....10.16	
		For 2,000 PSI Concrete, Deduct	-0.34
		For 2,500 PSI Concrete, Deduct	-0.17
		For 3,500 PSI Concrete, Add	0.12
		For 4,000 PSI Concrete, Add	0.39
		For 4,500 PSI Concrete, Add	0.49
		For Reinforcing Rods Are At 18" On Center, Deduct	-0.41
		For Reinforcing Rods Are At 24" On Center, Deduct	-0.61
		For Up To 500, Add	3.61
		For >500 To 1,000, Add	2.51
		For >1,000 To 2,000, Add	1.41
		For >2,000 To 5,000, Add	0.71
		For >10,000 To 20,000, Deduct	-0.31
		For >20,000 To 35,000, Deduct	-0.56
		For >35,000 To 50,000, Deduct	-0.82
		For >50,000 To 70,000, Deduct	-1.07
		For >70,000, Deduct	-1.33
03 31 13 00-0005	SF	6" 3,000 PSI Slab On Grade Concrete Slabs Assembly.....11.47	
		For 2,000 PSI Concrete, Deduct	-0.39
		For 2,500 PSI Concrete, Deduct	-0.20
		For 3,500 PSI Concrete, Add	0.14
		For 4,000 PSI Concrete, Add	0.46
		For 4,500 PSI Concrete, Add	0.57
		For Reinforcing Rods Are At 18" On Center, Deduct	-0.41
		For Reinforcing Rods Are At 24" On Center, Deduct	-0.61
		For Up To 500, Add	3.98
		For >500 To 1,000, Add	2.78
		For >1,000 To 2,000, Add	1.57
		For >2,000 To 5,000, Add	0.78
		For >10,000 To 20,000, Deduct	-0.36
		For >20,000 To 35,000, Deduct	-0.65
		For >35,000 To 50,000, Deduct	-0.94
		For >50,000 To 70,000, Deduct	-1.22
		For >70,000, Deduct	-1.51

03 Concrete**03 30 Cast-In-Place Concrete****03 31 Structural Concrete**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0006	SF		7" 3,000 PSI Slab On Grade Concrete Slabs Assembly	12.73	
			For 2,000 PSI Concrete, Deduct	-0.45	
			For 2,500 PSI Concrete, Deduct	-0.23	
			For 3,500 PSI Concrete, Add	0.16	
			For 4,000 PSI Concrete, Add	0.53	
			For 4,500 PSI Concrete, Add	0.66	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.41	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.61	
			For Up To 500, Add	4.30	
			For >500 To 1,000, Add	3.01	
			For >1,000 To 2,000, Add	1.71	
			For >2,000 To 5,000, Add	0.86	
			For >10,000 To 20,000, Deduct	-0.42	
			For >20,000 To 35,000, Deduct	-0.74	
			For >35,000 To 50,000, Deduct	-1.05	
			For >50,000 To 70,000, Deduct	-1.37	
			For >70,000, Deduct	-1.69	
03 31 13 00-0007	SF		8" 3,000 PSI Slab On Grade Concrete Slabs Assembly	13.81	
			For 2,000 PSI Concrete, Deduct	-0.50	
			For 2,500 PSI Concrete, Deduct	-0.25	
			For 3,500 PSI Concrete, Add	0.18	
			For 4,000 PSI Concrete, Add	0.58	
			For 4,500 PSI Concrete, Add	0.73	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.41	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.61	
			For Up To 500, Add	4.59	
			For >500 To 1,000, Add	3.21	
			For >1,000 To 2,000, Add	1.84	
			For >2,000 To 5,000, Add	0.92	
			For >10,000 To 20,000, Deduct	-0.46	
			For >20,000 To 35,000, Deduct	-0.81	
			For >35,000 To 50,000, Deduct	-1.15	
			For >50,000 To 70,000, Deduct	-1.50	
			For >70,000, Deduct	-1.84	
03 31 13 00-0008	SF		10" 3,000 PSI Slab On Grade Concrete Slabs Assembly	16.60	
			For 2,000 PSI Concrete, Deduct	-0.63	
			For 2,500 PSI Concrete, Deduct	-0.32	
			For 3,500 PSI Concrete, Add	0.22	
			For 4,000 PSI Concrete, Add	0.74	
			For 4,500 PSI Concrete, Add	0.92	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.41	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.61	
			For Up To 500, Add	5.29	
			For >500 To 1,000, Add	3.72	
			For >1,000 To 2,000, Add	2.15	
			For >2,000 To 5,000, Add	1.08	
			For >10,000 To 20,000, Deduct	-0.58	
			For >20,000 To 35,000, Deduct	-1.00	
			For >35,000 To 50,000, Deduct	-1.41	
			For >50,000 To 70,000, Deduct	-1.83	
			For >70,000, Deduct	-2.24	
03 31 13 00-0009	SF		12" 3,000 PSI Slab On Grade Concrete Slabs Assembly	18.71	
			For 2,000 PSI Concrete, Deduct	-0.73	
			For 2,500 PSI Concrete, Deduct	-0.36	
			For 3,500 PSI Concrete, Add	0.26	
			For 4,000 PSI Concrete, Add	0.85	
			For 4,500 PSI Concrete, Add	1.06	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.41	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.61	
			For Up To 500, Add	5.85	
			For >500 To 1,000, Add	4.12	
			For >1,000 To 2,000, Add	2.40	
			For >2,000 To 5,000, Add	1.20	
			For >10,000 To 20,000, Deduct	-0.67	
			For >20,000 To 35,000, Deduct	-1.14	
			For >35,000 To 50,000, Deduct	-1.61	
			For >50,000 To 70,000, Deduct	-2.08	
			For >70,000, Deduct	-2.54	
03 31 13 00-0010			Concrete Delivery And Placement (03 31 13)		
			Note: Includes cleaning out equipment and standard concrete placement tests.		
03 31 13 00-0011			Place Concrete By Method Indicated (03 31 13 00-0010)		
			Note: Tasks for concrete placement "By Concrete Pump" exclude the pumping equipment. See CSI section 03 37 16 00-0001 for concrete pumping equipment.		
03 31 13 00-0012			Place Concrete Pile Caps (03 31 13 00-0011)		



		Concrete	03	CS
		Cast-In-Place Concrete	03 30	
		Structural Concrete	03 31	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT	COST	UNIT COST
03 31 13 00-0013	CY Crane And Bucket, Place 3,000 PSI Concrete Pile Caps		348.59	
	For 2,000 PSI Concrete, Deduct		-12.15	
	For 2,500 PSI Concrete, Deduct		-6.08	
	For 3,500 PSI Concrete, Add		11.25	
	For 3,750 PSI Concrete, Add		15.30	
	For 4,000 PSI Concrete, Add		19.35	
	For 4,500 PSI Concrete, Add		22.50	
	For 5,000 PSI Concrete, Add		25.65	
	For 6,000 PSI Concrete, Add		60.75	
	For White Cement Concrete, Add		27.00	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add		29.25	
	For High Early Strength, Type 3 ASTM C150, Add		22.50	
	For Lightweight Aggregate, ASTM C330, Add		78.75	
	For Up To 20, Add		49.44	
	For >20 To 50, Add		18.54	
	For >100 To 200, Deduct		-6.97	
	For >200 To 400, Deduct		-13.94	
	For >400, Deduct		-20.92	
03 31 13 00-0014	CY Direct Chute, Place 3,000 PSI Concrete Pile Caps		279.94	
	For 2,000 PSI Concrete, Deduct		-12.15	
	For 2,500 PSI Concrete, Deduct		-6.08	
	For 3,500 PSI Concrete, Add		11.25	
	For 3,750 PSI Concrete, Add		15.30	
	For 4,000 PSI Concrete, Add		19.35	
	For 4,500 PSI Concrete, Add		22.50	
	For 5,000 PSI Concrete, Add		25.65	
	For 6,000 PSI Concrete, Add		60.75	
	For White Cement Concrete, Add		27.00	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add		29.25	
	For High Early Strength, Type 3 ASTM C150, Add		22.50	
	For Lightweight Aggregate, ASTM C330, Add		78.75	
	For Up To 20, Add		21.98	
	For >20 To 50, Add		8.24	
	For >100 To 200, Deduct		-5.60	
	For >200 To 400, Deduct		-11.20	
	For >400, Deduct		-16.80	
03 31 13 00-0015	CY Concrete Pump, Place 3,000 PSI Concrete Pile Caps		296.06	
	Note: Excludes pumping equipment.			
	For 2,000 PSI Concrete, Deduct		-13.16	
	For 2,500 PSI Concrete, Deduct		-6.58	
	For 3,500 PSI Concrete, Add		12.19	
	For 3,750 PSI Concrete, Add		16.58	
	For 4,000 PSI Concrete, Add		20.96	
	For 4,500 PSI Concrete, Add		24.38	
	For 5,000 PSI Concrete, Add		27.79	
	For 6,000 PSI Concrete, Add		65.81	
	For White Cement Concrete, Add		29.25	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add		31.69	
	For High Early Strength, Type 3 ASTM C150, Add		24.38	
	For Lightweight Aggregate, ASTM C330, Add		85.31	
	For Up To 20, Add		20.92	
	For >20 To 50, Add		7.85	
	For >100 To 200, Deduct		-5.92	
	For >200 To 400, Deduct		-11.84	
	For >400, Deduct		-17.76	
03 31 13 00-0016	Place Concrete Continuous Footings (03 31 13 00-0011)			
03 31 13 00-0017	CY Crane And Bucket, Place 3,000 PSI Concrete Continuous Footings		334.87	
	For 2,000 PSI Concrete, Deduct		-12.15	
	For 2,500 PSI Concrete, Deduct		-6.08	
	For 3,500 PSI Concrete, Add		11.25	
	For 3,750 PSI Concrete, Add		15.30	
	For 4,000 PSI Concrete, Add		19.35	
	For 4,500 PSI Concrete, Add		22.50	
	For 5,000 PSI Concrete, Add		25.65	
	For 6,000 PSI Concrete, Add		60.75	
	For White Cement Concrete, Add		27.00	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add		29.25	
	For High Early Strength, Type 3 ASTM C150, Add		22.50	
	For Lightweight Aggregate, ASTM C330, Add		78.75	
	For Up To 20, Add		43.95	
	For >20 To 50, Add		16.48	
	For >100 To 200, Deduct		-6.70	
	For >200 To 400, Deduct		-13.39	
	For >400, Deduct		-20.09	

03 Concrete**03 30 Cast-In-Place Concrete****03 31 Structural Concrete**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0018	CY		Direct Chute, Place 3,000 PSI Concrete Continuous Footings	273.84	
			For 2,000 PSI Concrete, Deduct	-12.15	
			For 2,500 PSI Concrete, Deduct	-6.08	
			For 3,500 PSI Concrete, Add	11.25	
			For 3,750 PSI Concrete, Add	15.30	
			For 4,000 PSI Concrete, Add	19.35	
			For 4,500 PSI Concrete, Add	22.50	
			For 5,000 PSI Concrete, Add	25.65	
			For 6,000 PSI Concrete, Add	60.75	
			For White Cement Concrete, Add	27.00	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	29.25	
			For High Early Strength, Type 3 ASTM C150, Add	22.50	
			For Lightweight Aggregate, ASTM C330, Add	78.75	
			For Up To 20, Add	19.54	
			For >20 To 50, Add	7.33	
			For >100 To 200, Deduct	-5.48	
			For >200 To 400, Deduct	-10.95	
			For >400, Deduct	-16.43	
03 31 13 00-0019	CY		Concrete Pump, Place 3,000 PSI Concrete Continuous Footings	290.26	
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-13.16	
			For 2,500 PSI Concrete, Deduct	-6.58	
			For 3,500 PSI Concrete, Add	12.19	
			For 3,750 PSI Concrete, Add	16.58	
			For 4,000 PSI Concrete, Add	20.96	
			For 4,500 PSI Concrete, Add	24.38	
			For 5,000 PSI Concrete, Add	27.79	
			For 6,000 PSI Concrete, Add	65.81	
			For White Cement Concrete, Add	29.25	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	31.69	
			For High Early Strength, Type 3 ASTM C150, Add	24.38	
			For Lightweight Aggregate, ASTM C330, Add	85.31	
			For Up To 20, Add	18.60	
			For >20 To 50, Add	6.98	
			For >100 To 200, Deduct	-5.81	
			For >200 To 400, Deduct	-11.61	
			For >400, Deduct	-17.42	
03 31 13 00-0020			Place Concrete Spread Footings (03 31 13 00-0011)	410.39	
03 31 13 00-0021	CY		Crane And Bucket, Place 3,000 PSI Concrete Spread Footings	410.39	
			For 2,000 PSI Concrete, Deduct	-12.15	
			For 2,500 PSI Concrete, Deduct	-6.08	
			For 3,500 PSI Concrete, Add	11.25	
			For 3,750 PSI Concrete, Add	15.30	
			For 4,000 PSI Concrete, Add	19.35	
			For 4,500 PSI Concrete, Add	22.50	
			For 5,000 PSI Concrete, Add	25.65	
			For 6,000 PSI Concrete, Add	60.75	
			For White Cement Concrete, Add	27.00	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	29.25	
			For High Early Strength, Type 3 ASTM C150, Add	22.50	
			For Lightweight Aggregate, ASTM C330, Add	78.75	
			For Up To 20, Add	74.16	
			For >20 To 50, Add	27.81	
			For >100 To 200, Deduct	-8.21	
			For >200 To 400, Deduct	-16.42	
			For >400, Deduct	-24.62	
03 31 13 00-0022	CY		Direct Chute, Place 3,000 PSI Concrete Spread Footings	307.41	
			For 2,000 PSI Concrete, Deduct	-12.15	
			For 2,500 PSI Concrete, Deduct	-6.08	
			For 3,500 PSI Concrete, Add	11.25	
			For 3,750 PSI Concrete, Add	15.30	
			For 4,000 PSI Concrete, Add	19.35	
			For 4,500 PSI Concrete, Add	22.50	
			For 5,000 PSI Concrete, Add	25.65	
			For 6,000 PSI Concrete, Add	60.75	
			For White Cement Concrete, Add	27.00	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	29.25	
			For High Early Strength, Type 3 ASTM C150, Add	22.50	
			For Lightweight Aggregate, ASTM C330, Add	78.75	
			For Up To 20, Add	32.96	
			For >20 To 50, Add	12.36	
			For >100 To 200, Deduct	-6.15	
			For >200 To 400, Deduct	-12.30	
			For >400, Deduct	-18.44	



	Concrete	03	
	Cast-In-Place Concrete	03 30	
	Structural Concrete	03 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0023	CY		Concrete Pump, Place 3,000 PSI Concrete Spread Footings Note: Excludes pumping equipment.	322.23	
			For 2,000 PSI Concrete, Deduct	-13.16	
			For 2,500 PSI Concrete, Deduct	-6.58	
			For 3,500 PSI Concrete, Add	12.19	
			For 3,750 PSI Concrete, Add	16.58	
			For 4,000 PSI Concrete, Add	20.96	
			For 4,500 PSI Concrete, Add	24.38	
			For 5,000 PSI Concrete, Add	27.79	
			For 6,000 PSI Concrete, Add	65.81	
			For White Cement Concrete, Add	29.25	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	31.69	
			For High Early Strength, Type 3 ASTM C150, Add	24.38	
			For Lightweight Aggregate, ASTM C330, Add	85.31	
			For Up To 20, Add	31.39	
			For >20 To 50, Add	11.77	
			For >100 To 200, Deduct	-6.44	
			For >200 To 400, Deduct	-12.89	
			For >400, Deduct	-19.33	
03 31 13 00-0024			Place Concrete Mat Foundation (03 31 13 00-0011)		
03 31 13 00-0025	CY		Crane And Bucket, Place 3,000 PSI Concrete Mat Foundation.....	257.96	
			For 2,000 PSI Concrete, Deduct	-12.15	
			For 2,500 PSI Concrete, Deduct	-6.08	
			For 3,500 PSI Concrete, Add	11.25	
			For 3,750 PSI Concrete, Add	15.30	
			For 4,000 PSI Concrete, Add	19.35	
			For 4,500 PSI Concrete, Add	22.50	
			For 5,000 PSI Concrete, Add	25.65	
			For 6,000 PSI Concrete, Add	60.75	
			For White Cement Concrete, Add	27.00	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	29.25	
			For High Early Strength, Type 3 ASTM C150, Add	22.50	
			For Lightweight Aggregate, ASTM C330, Add	78.75	
			For Up To 20, Add	13.18	
			For >20 To 50, Add	4.94	
			For >100 To 200, Deduct	-5.16	
			For >200 To 400, Deduct	-10.32	
			For >400, Deduct	-15.48	
03 31 13 00-0026	CY		Direct Chute, Place 3,000 PSI Concrete Mat Foundation.....	239.65	
			For 2,000 PSI Concrete, Deduct	-12.15	
			For 2,500 PSI Concrete, Deduct	-6.08	
			For 3,500 PSI Concrete, Add	11.25	
			For 3,750 PSI Concrete, Add	15.30	
			For 4,000 PSI Concrete, Add	19.35	
			For 4,500 PSI Concrete, Add	22.50	
			For 5,000 PSI Concrete, Add	25.65	
			For 6,000 PSI Concrete, Add	60.75	
			For White Cement Concrete, Add	27.00	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	29.25	
			For High Early Strength, Type 3 ASTM C150, Add	22.50	
			For Lightweight Aggregate, ASTM C330, Add	78.75	
			For Up To 20, Add	5.86	
			For >20 To 50, Add	2.20	
			For >100 To 200, Deduct	-4.79	
			For >200 To 400, Deduct	-9.59	
			For >400, Deduct	-14.38	
03 31 13 00-0027	CY		Concrete Pump, Place 3,000 PSI Concrete Mat Foundation..... Note: Excludes pumping equipment.	255.96	
			For 2,000 PSI Concrete, Deduct	-13.16	
			For 2,500 PSI Concrete, Deduct	-6.58	
			For 3,500 PSI Concrete, Add	12.19	
			For 3,750 PSI Concrete, Add	16.58	
			For 4,000 PSI Concrete, Add	20.96	
			For 4,500 PSI Concrete, Add	24.38	
			For 5,000 PSI Concrete, Add	27.79	
			For 6,000 PSI Concrete, Add	65.81	
			For White Cement Concrete, Add	29.25	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	31.69	
			For High Early Strength, Type 3 ASTM C150, Add	24.38	
			For Lightweight Aggregate, ASTM C330, Add	85.31	
			For Up To 20, Add	4.88	
			For >20 To 50, Add	1.83	
			For >100 To 200, Deduct	-5.12	
			For >200 To 400, Deduct	-10.24	
			For >400, Deduct	-15.36	
03 31 13 00-0028			Place Concrete Grade Beams (03 31 13 00-0011)		

03 Concrete**03 30 Cast-In-Place Concrete****03 31 Structural Concrete**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0029	CY		Crane And Bucket, Place 3,000 PSI Concrete Grade Beams.....	312.89	
			For 2,000 PSI Concrete, Deduct	-12.15	
			For 2,500 PSI Concrete, Deduct	-6.08	
			For 3,500 PSI Concrete, Add	11.25	
			For 3,750 PSI Concrete, Add	15.30	
			For 4,000 PSI Concrete, Add	19.35	
			For 4,500 PSI Concrete, Add	22.50	
			For 5,000 PSI Concrete, Add	25.65	
			For 6,000 PSI Concrete, Add	60.75	
			For White Cement Concrete, Add	27.00	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	29.25	
			For High Early Strength, Type 3 ASTM C150, Add	22.50	
			For Lightweight Aggregate, ASTM C330, Add	78.75	
			For Up To 20, Add	35.16	
			For >20 To 50, Add	13.18	
			For >100 To 200, Deduct	-6.26	
			For >200 To 400, Deduct	-12.52	
			For >400, Deduct	-18.77	
03 31 13 00-0030	CY		Direct Chute, Place 3,000 PSI Concrete Grade Beams.....	264.07	
			For 2,000 PSI Concrete, Deduct	-12.15	
			For 2,500 PSI Concrete, Deduct	-6.08	
			For 3,500 PSI Concrete, Add	11.25	
			For 3,750 PSI Concrete, Add	15.30	
			For 4,000 PSI Concrete, Add	19.35	
			For 4,500 PSI Concrete, Add	22.50	
			For 5,000 PSI Concrete, Add	25.65	
			For 6,000 PSI Concrete, Add	60.75	
			For White Cement Concrete, Add	27.00	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	29.25	
			For High Early Strength, Type 3 ASTM C150, Add	22.50	
			For Lightweight Aggregate, ASTM C330, Add	78.75	
			For Up To 20, Add	15.63	
			For >20 To 50, Add	5.86	
			For >100 To 200, Deduct	-5.28	
			For >200 To 400, Deduct	-10.56	
			For >400, Deduct	-15.84	
03 31 13 00-0031	CY		Concrete Pump, Place 3,000 PSI Concrete Grade Beams.....	280.96	
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-13.16	
			For 2,500 PSI Concrete, Deduct	-6.58	
			For 3,500 PSI Concrete, Add	12.19	
			For 3,750 PSI Concrete, Add	16.58	
			For 4,000 PSI Concrete, Add	20.96	
			For 4,500 PSI Concrete, Add	24.38	
			For 5,000 PSI Concrete, Add	27.79	
			For 6,000 PSI Concrete, Add	65.81	
			For White Cement Concrete, Add	29.25	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	31.69	
			For High Early Strength, Type 3 ASTM C150, Add	24.38	
			For Lightweight Aggregate, ASTM C330, Add	85.31	
			For Up To 20, Add	14.88	
			For >20 To 50, Add	5.58	
			For >100 To 200, Deduct	-5.62	
			For >200 To 400, Deduct	-11.24	
			For >400, Deduct	-16.86	
03 31 13 00-0032			Place Concrete Slab On Grade (03 31 13 00-0011)		
03 31 13 00-0033	CY		Up To 6", By Crane And Bucket, Place 3,000 PSI Concrete Slab On Grade.....	314.96	
			For 2,000 PSI Concrete, Deduct	-12.15	
			For 2,500 PSI Concrete, Deduct	-6.08	
			For 3,500 PSI Concrete, Add	11.25	
			For 3,750 PSI Concrete, Add	15.30	
			For 4,000 PSI Concrete, Add	19.35	
			For 4,500 PSI Concrete, Add	22.50	
			For 5,000 PSI Concrete, Add	25.65	
			For 6,000 PSI Concrete, Add	60.75	
			For White Cement Concrete, Add	27.00	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	29.25	
			For High Early Strength, Type 3 ASTM C150, Add	22.50	
			For Lightweight Aggregate, ASTM C330, Add	78.75	
			For Up To 20, Add	35.98	
			For >20 To 50, Add	13.49	
			For >100 To 200, Deduct	-6.30	
			For >200 To 400, Deduct	-12.60	
			For >400, Deduct	-18.90	



		Concrete	03	CS
		Cast-In-Place Concrete	03 30	
		Structural Concrete	03 31	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT	COST	UNIT COST
03 31 13 00-0034	CY >6", By Crane And Bucket, Place 3,000 PSI Concrete Slab On Grade		293.25	
	For 2,000 PSI Concrete, Deduct		-12.15	
	For 2,500 PSI Concrete, Deduct		-6.08	
	For 3,500 PSI Concrete, Add		11.25	
	For 3,750 PSI Concrete, Add		15.30	
	For 4,000 PSI Concrete, Add		19.35	
	For 4,500 PSI Concrete, Add		22.50	
	For 5,000 PSI Concrete, Add		25.65	
	For 6,000 PSI Concrete, Add		60.75	
	For White Cement Concrete, Add		27.00	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add		29.25	
	For High Early Strength, Type 3 ASTM C150, Add		22.50	
	For Lightweight Aggregate, ASTM C330, Add		78.75	
	For Up To 20, Add		27.30	
	For >20 To 50, Add		10.24	
	For >100 To 200, Deduct		-5.87	
	For >200 To 400, Deduct		-11.73	
	For >400, Deduct		-17.60	
03 31 13 00-0035	CY Up To 6", By Direct Chute, Place 3,000 PSI Concrete Slab On Grade		264.99	
	For 2,000 PSI Concrete, Deduct		-12.15	
	For 2,500 PSI Concrete, Deduct		-6.08	
	For 3,500 PSI Concrete, Add		11.25	
	For 3,750 PSI Concrete, Add		15.30	
	For 4,000 PSI Concrete, Add		19.35	
	For 4,500 PSI Concrete, Add		22.50	
	For 5,000 PSI Concrete, Add		25.65	
	For 6,000 PSI Concrete, Add		60.75	
	For White Cement Concrete, Add		27.00	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add		29.25	
	For High Early Strength, Type 3 ASTM C150, Add		22.50	
	For Lightweight Aggregate, ASTM C330, Add		78.75	
	For Up To 20, Add		16.00	
	For >20 To 50, Add		6.00	
	For >100 To 200, Deduct		-5.30	
	For >200 To 400, Deduct		-10.60	
	For >400, Deduct		-15.90	
03 31 13 00-0036	CY >6", By Direct Chute, Place 3,000 PSI Concrete Slab On Grade		255.33	
	For 2,000 PSI Concrete, Deduct		-12.15	
	For 2,500 PSI Concrete, Deduct		-6.08	
	For 3,500 PSI Concrete, Add		11.25	
	For 3,750 PSI Concrete, Add		15.30	
	For 4,000 PSI Concrete, Add		19.35	
	For 4,500 PSI Concrete, Add		22.50	
	For 5,000 PSI Concrete, Add		25.65	
	For 6,000 PSI Concrete, Add		60.75	
	For White Cement Concrete, Add		27.00	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add		29.25	
	For High Early Strength, Type 3 ASTM C150, Add		22.50	
	For Lightweight Aggregate, ASTM C330, Add		78.75	
	For Up To 20, Add		12.13	
	For >20 To 50, Add		4.55	
	For >100 To 200, Deduct		-5.11	
	For >200 To 400, Deduct		-10.21	
	For >400, Deduct		-15.32	
03 31 13 00-0037	CY Up To 6", By Concrete Pump, Place 3,000 PSI Concrete Slab On Grade		277.07	
	Note: Excludes pumping equipment.			
	For 2,000 PSI Concrete, Deduct		-13.16	
	For 2,500 PSI Concrete, Deduct		-6.58	
	For 3,500 PSI Concrete, Add		12.19	
	For 3,750 PSI Concrete, Add		16.58	
	For 4,000 PSI Concrete, Add		20.96	
	For 4,500 PSI Concrete, Add		24.38	
	For 5,000 PSI Concrete, Add		27.79	
	For 6,000 PSI Concrete, Add		65.81	
	For White Cement Concrete, Add		29.25	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add		31.69	
	For High Early Strength, Type 3 ASTM C150, Add		24.38	
	For Lightweight Aggregate, ASTM C330, Add		85.31	
	For Up To 20, Add		13.33	
	For >20 To 50, Add		5.00	
	For >100 To 200, Deduct		-5.54	
	For >200 To 400, Deduct		-11.08	
	For >400, Deduct		-16.62	

03 Concrete**03 30 Cast-In-Place Concrete****03 31 Structural Concrete**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0038	CY		>6", By Concrete Pump, Place 3,000 PSI Concrete Slab On Grade Note: Excludes pumping equipment.	269.03	
			For 2,000 PSI Concrete, Deduct	-13.16	
			For 2,500 PSI Concrete, Deduct	-6.58	
			For 3,500 PSI Concrete, Add	12.19	
			For 3,750 PSI Concrete, Add	16.58	
			For 4,000 PSI Concrete, Add	20.96	
			For 4,500 PSI Concrete, Add	24.38	
			For 5,000 PSI Concrete, Add	27.79	
			For 6,000 PSI Concrete, Add	65.81	
			For White Cement Concrete, Add	29.25	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	31.69	
			For High Early Strength, Type 3 ASTM C150, Add	24.38	
			For Lightweight Aggregate, ASTM C330, Add	85.31	
			For Up To 20, Add	10.11	
			For >20 To 50, Add	3.79	
			For >100 To 200, Deduct	-5.38	
			For >200 To 400, Deduct	-10.76	
			For >400, Deduct	-16.14	
03 31 13 00-0039			Place Concrete Stairs (03 31 13 00-0011)		
03 31 13 00-0040	CY		Crane And Bucket, Place 3,000 PSI On Grade Concrete Stairs.....	629.73	
			For 2,000 PSI Concrete, Deduct	-12.15	
			For 2,500 PSI Concrete, Deduct	-6.08	
			For 3,500 PSI Concrete, Add	11.25	
			For 3,750 PSI Concrete, Add	15.30	
			For 4,000 PSI Concrete, Add	19.35	
			For 4,500 PSI Concrete, Add	22.50	
			For 5,000 PSI Concrete, Add	25.65	
			For 6,000 PSI Concrete, Add	60.75	
			For White Cement Concrete, Add	27.00	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	29.25	
			For High Early Strength, Type 3 ASTM C150, Add	22.50	
			For Lightweight Aggregate, ASTM C330, Add	78.75	
			For Up To 20, Add	161.89	
			For >20 To 50, Add	60.71	
			For >100 To 200, Deduct	-12.59	
			For >200 To 400, Deduct	-25.19	
			For >400, Deduct	-37.78	
03 31 13 00-0041	CY		Direct Chute, Place 3,000 PSI On Grade Concrete Stairs.....	404.93	
			For 2,000 PSI Concrete, Deduct	-12.15	
			For 2,500 PSI Concrete, Deduct	-6.08	
			For 3,500 PSI Concrete, Add	11.25	
			For 3,750 PSI Concrete, Add	15.30	
			For 4,000 PSI Concrete, Add	19.35	
			For 4,500 PSI Concrete, Add	22.50	
			For 5,000 PSI Concrete, Add	25.65	
			For 6,000 PSI Concrete, Add	60.75	
			For White Cement Concrete, Add	27.00	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	29.25	
			For High Early Strength, Type 3 ASTM C150, Add	22.50	
			For Lightweight Aggregate, ASTM C330, Add	78.75	
			For Up To 20, Add	71.97	
			For >20 To 50, Add	26.99	
			For >100 To 200, Deduct	-8.10	
			For >200 To 400, Deduct	-16.20	
			For >400, Deduct	-24.30	
03 31 13 00-0042	CY		Concrete Pump, Place 3,000 PSI On Grade Concrete Stairs..... Note: Excludes pumping equipment.	393.70	
			For 2,000 PSI Concrete, Deduct	-13.16	
			For 2,500 PSI Concrete, Deduct	-6.58	
			For 3,500 PSI Concrete, Add	12.19	
			For 3,750 PSI Concrete, Add	16.58	
			For 4,000 PSI Concrete, Add	20.96	
			For 4,500 PSI Concrete, Add	24.38	
			For 5,000 PSI Concrete, Add	27.79	
			For 6,000 PSI Concrete, Add	65.81	
			For White Cement Concrete, Add	29.25	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	31.69	
			For High Early Strength, Type 3 ASTM C150, Add	24.38	
			For Lightweight Aggregate, ASTM C330, Add	85.31	
			For Up To 20, Add	59.98	
			For >20 To 50, Add	22.49	
			For >100 To 200, Deduct	-7.87	
			For >200 To 400, Deduct	-15.75	
			For >400, Deduct	-23.62	
03 31 13 00-0043			Concrete Carts (03 31 13 00-0010) Note: Used to place concrete were necessary.		
03 31 13 00-0044	CY		50' Haul, Non Motorized, Concrete Buggy.....	24.02	
03 31 13 00-0045	CY		150' Haul, Non Motorized, Concrete Buggy.....	32.16	
03 31 13 00-0046	CY		250' Haul, Non Motorized, Concrete Buggy.....	42.90	
03 31 13 00-0047	CY		50' Haul, Motorized, Concrete Buggy.....	10.84	
03 31 13 00-0048	CY		150' Haul, Motorized, Concrete Buggy.....	14.52	



		Concrete	03	CS
		Cast-In-Place Concrete	03 30	
		Structural Concrete	03 31	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0049	CY	250' Haul, Motorized, Concrete Buggy	19.36	
03 31 13 00-0050		Delivery Fee For Small Concrete Purchases (Short Load) (03 31 13)		
03 31 13 00-0051	CY	Delivery Fee For Small Concrete Purchases (Short Load) Per CY For Each CY Less Than 9 CY..... Note: The task quantity is 9 minus the number of CY's delivered. For example, the delivery fee for 2CY's is: (9-2) = 7.	31.99	
03 31 13 00-0052		Equipment Pads (03 31 13)		
03 31 13 00-0053		Small Concrete Equipment Housekeeping Pad Assemblies (03 31 13 00-0052) Note: Includes forms, hand mix concrete, finish, curing and reinforcing. For up to 50 SF per pad and up to 5 pads per project. See CSI section 03 31 13 00-0002 for >50 SF concrete pads.		
03 31 13 00-0054	SF	4" Equipment Pad With Welded Wire Reinforcement	19.20	
		For >5 To 20 Pads, Deduct	-2.21	
		For >20 To 50 Pads, Deduct	-4.05	
		For >50 Pads, Deduct	-5.89	
03 31 13 00-0055	SF	4" Equipment Pad With Rebar	23.51	
		For >5 To 20 Pads, Deduct	-2.55	
		For >20 To 50 Pads, Deduct	-4.68	
		For >50 Pads, Deduct	-6.80	
03 31 13 00-0056	SF	6" Equipment Pad With Rebar	29.82	
		For >5 To 20 Pads, Deduct	-3.21	
		For >20 To 50 Pads, Deduct	-5.88	
		For >50 Pads, Deduct	-8.55	
03 31 13 00-0057	SF	8" Equipment Pad With Rebar	37.54	
		For >5 To 20 Pads, Deduct	-4.07	
		For >20 To 50 Pads, Deduct	-7.47	
		For >50 Pads, Deduct	-10.86	
03 31 13 00-0058		Delivery Fee For Concrete, Per Truck Load (03 31 13)		
03 31 13 00-0059	EA	Concrete Delivery Fee, Per Truck..... Note: To be added to all concrete leaving concrete yard	40.00	
03 31 16		Lightweight Structural Concrete (03 31)		
03 31 16 00-0001		Low Density Cellular / Foam Concrete Fill (03 31 16)		
03 31 16 00-0002	CY	Lightweight Low Density Pervious Cellular/Foam Concrete, 100 To 120 PCF Density Range	278.73	
03 35		Concrete Finishing (03 30)		
03 35 19		Colored Concrete Finishing (03 35)		
03 35 19 00-0001		Concrete Surface Treatments (03 35 19)		
03 35 19 00-0002	SF	Acrylic Latex Bonding Agent	0.53	
03 35 19 00-0003	SF	Epoxy Resin Bonding Agent	3.15	
03 35 19 00-0004	SF	Clear Acrylic Sealer, Hardener And Dustproofer	0.37	
03 35 19 00-0005	SF	Colored Acrylic Sealer, Hardener And Dustproofer	0.39	
03 35 23		Exposed Aggregate Concrete Finishing (03 35)		
03 35 23 00-0001		Exposed Aggregate, Concrete Finish (03 35 23)		
03 35 23 00-0002	SF	Exposed Aggregate, Concrete Floor Finish	3.16	
03 35 26		Grooved Concrete Surface Finishing (03 35)		
03 35 26 00-0001		Ramp, Grooved Concrete Surface Finishing (03 35 26)		
03 35 26 00-0002	SF	Ramp, Grooved Concrete Surface Finishing	4.41	
03 35 29		Tooled Concrete Finishing (03 35)		
03 35 29 00-0001		Solid Board Concrete Finish (03 35 29)		
03 35 29 00-0002	SF	Solid Board Concrete, Non Uniform Finish, 1 Use, Add To Formwork	17.49	
03 35 29 00-0003		Marblecrete Finishes (03 35 29)		
03 35 29 00-0004	SF	2" Thick Marblecrete And Finish	52.70	
03 35 29 00-0005	SF	4" Thick Marblecrete And Finish	70.57	
03 35 43		Polished Concrete Finishing (03 35)		
03 35 43 00-0001		Concrete Floor Polishing System (03 35 43) Note: The floor polishing system below may consist of one or multiple applications of each task/step below depending on existing conditions and desired results.		

03 Concrete**03 30 Cast-In-Place Concrete****03 35 Concrete Finishing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 35 43 00-0002 SF Mechanically Grind Concrete Floor With 40 Grit Metal Bonded Diamond Wheels.....	1.83	
For Up To 500, Add	3.47	
For >500 To 1,000, Add	3.22	
For >1,000 To 2,500, Add	2.13	
For >2,500 To 4,000, Add	1.11	
For >8,000 To 15,000, Deduct	-0.43	
For >15,000 To 25,000, Deduct	-0.55	
For >25,000, Deduct	-0.77	
03 35 43 00-0003 SF Mechanically Grind Concrete Floor With 80 Grit Metal Bonded Diamond Wheels.....	1.47	
For Up To 500, Add	2.77	
For >500 To 1,000, Add	2.57	
For >1,000 To 2,500, Add	1.70	
For >2,500 To 4,000, Add	0.89	
For >8,000 To 15,000, Deduct	-0.34	
For >15,000 To 25,000, Deduct	-0.44	
For >25,000, Deduct	-0.61	
03 35 43 00-0004 SF Mechanically Grind Concrete Floor With 100 Grit Resin Bonded Diamond Wheels	1.23	
For Up To 500, Add	2.31	
For >500 To 1,000, Add	2.14	
For >1,000 To 2,500, Add	1.42	
For >2,500 To 4,000, Add	0.74	
For >8,000 To 15,000, Deduct	-0.29	
For >15,000 To 25,000, Deduct	-0.36	
For >25,000, Deduct	-0.51	
03 35 43 00-0005 SF Mechanically Grind Concrete Floor With 150 Grit Metal Bonded Diamond Wheels.....	1.15	
For Up To 500, Add	2.15	
For >500 To 1,000, Add	2.00	
For >1,000 To 2,500, Add	1.32	
For >2,500 To 4,000, Add	0.69	
For >8,000 To 15,000, Deduct	-0.27	
For >15,000 To 25,000, Deduct	-0.34	
For >25,000, Deduct	-0.48	
03 35 43 00-0006 SF Mechanically Grind Concrete Floor With 200 Grit Resin Bonded Diamond Wheels	1.06	
For Up To 500, Add	1.98	
For >500 To 1,000, Add	1.84	
For >1,000 To 2,500, Add	1.21	
For >2,500 To 4,000, Add	0.63	
For >8,000 To 15,000, Deduct	-0.24	
For >15,000 To 25,000, Deduct	-0.31	
For >25,000, Deduct	-0.44	
03 35 43 00-0007 SF Mechanically Grind Concrete Floor With 400 Grit Resin Bonded Diamond Wheels	1.06	
For Up To 500, Add	1.98	
For >500 To 1,000, Add	1.84	
For >1,000 To 2,500, Add	1.21	
For >2,500 To 4,000, Add	0.63	
For >8,000 To 15,000, Deduct	-0.24	
For >15,000 To 25,000, Deduct	-0.31	
For >25,000, Deduct	-0.44	
03 35 43 00-0008 SF Mechanically Grind Concrete Floor With 800 Grit Resin Bonded Diamond Wheels	1.06	
For Up To 500, Add	1.98	
For >500 To 1,000, Add	1.84	
For >1,000 To 2,500, Add	1.21	
For >2,500 To 4,000, Add	0.63	
For >8,000 To 15,000, Deduct	-0.24	
For >15,000 To 25,000, Deduct	-0.31	
For >25,000, Deduct	-0.44	
03 35 43 00-0009 SF Mechanically Grind Concrete Floor With 1,500 Grit Resin Bonded Diamond Wheels	1.06	
For Up To 500, Add	1.98	
For >500 To 1,000, Add	1.84	
For >1,000 To 2,500, Add	1.21	
For >2,500 To 4,000, Add	0.63	
For >8,000 To 15,000, Deduct	-0.24	
For >15,000 To 25,000, Deduct	-0.31	
For >25,000, Deduct	-0.44	
03 35 43 00-0010 SF High Speed Burnish Concrete Floor With Diamond Pads.....	0.26	
For Up To 500, Add	0.43	
For >500 To 1,000, Add	0.40	
For >1,000 To 2,500, Add	0.26	
For >2,500 To 4,000, Add	0.14	
For >8,000 To 15,000, Deduct	-0.05	
For >15,000 To 25,000, Deduct	-0.07	
For >25,000, Deduct	-0.09	
03 35 43 00-0011 SF Apply 1 Coat Of Concrete Densifier For Concrete Floor Polishing	0.49	
For Up To 500, Add	0.52	
For >500 To 1,000, Add	0.49	
For >1,000 To 2,500, Add	0.32	
For >2,500 To 4,000, Add	0.17	
For >8,000 To 15,000, Deduct	-0.06	
For >15,000 To 25,000, Deduct	-0.08	
For >25,000, Deduct	-0.12	



Concrete			03	CS
Cast-In-Place Concrete			03 30	
Concrete Finishing			03 35	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 35 43 00-0012	SF		Apply 2 Coats Of Concrete Densifier With Stain Protector For Concrete Floor Polishing.....	0.86	
			For Up To 500, Add	0.80	
			For >500 To 1,000, Add	0.74	
			For >1,000 To 2,500, Add	0.49	
			For >2,500 To 4,000, Add	0.25	
			For >8,000 To 15,000, Deduct	-0.10	
			For >15,000 To 25,000, Deduct	-0.13	
			For >25,000, Deduct	-0.18	
03 35 43 00-0013	SF		Concrete Floor Polishing Final Clean Up.....	0.14	
			For Up To 500, Add	0.27	
			For >500 To 1,000, Add	0.25	
			For >1,000 To 2,500, Add	0.17	
			For >2,500 To 4,000, Add	0.09	
			For >8,000 To 15,000, Deduct	-0.03	
			For >15,000 To 25,000, Deduct	-0.04	
			For >25,000, Deduct	-0.06	
03 35 83 Concrete Wall Finishing (03 35)					
03 35 83 00-0001 Wall Finishes (03 35 83)					
03 35 83 00-0002	SF		Up To 1/4" Penetration Abrasive Media Blasting, New Concrete Wall Finishes	5.11	
			Note: 4.5 Lbs of sand or abrasive media material per SF		
			For Up To 100, Add	8.30	
			For >100 To 250, Add	2.08	
			For >250 To 500, Add	1.04	
			For >5,000 To 10,000, Deduct	-0.21	
			For >10,000, Deduct	-0.42	
03 35 83 00-0003	SF		>1/4" To 1/2" Penetration Abrasive Media Blasting, New Concrete Wall Finishes	10.24	
			Note: 9 Lbs of sand abrasive media material per SF		
			For Up To 100, Add	16.62	
			For >100 To 250, Add	4.16	
			For >250 To 500, Add	2.08	
			For >5,000 To 10,000, Deduct	-0.42	
			For >10,000, Deduct	-0.83	
03 37 Specialty Placed Concrete (03 30)					
Note: Includes gun finish. Not to be used for pumping concrete tasks. See CSI section 03 35 00 00-0000 for finishing.					
03 37 13 Shotcrete (03 37)					
03 37 13 00-0001 Shotcrete, Fiber Reinforced, Structural Repair (03 37 13)					
03 37 13 00-0002	SF		1" Thick Shotcrete, Fiber Reinforced	3.30	
			For Up To 25, Add	0.62	
			For >25 To 50, Add	0.36	
			For >50 To 150, Add	0.15	
03 37 13 00-0003	SF		1-1/2" Thick Shotcrete, Fiber Reinforced	4.55	
			For Up To 25, Add	0.83	
			For >25 To 50, Add	0.48	
			For >50 To 150, Add	0.19	
			For High Strength Shotcrete Repair, Add	1.42	
			For Polymer Modified Shotcrete, Add	1.11	
03 37 13 00-0004	SF		2" Thick Shotcrete, Fiber Reinforced	6.19	
			For Up To 25, Add	1.14	
			For >25 To 50, Add	0.66	
			For >50 To 150, Add	0.26	
03 37 13 00-0005	SF		2-1/2" Thick Shotcrete, Fiber Reinforced	7.25	
			For Up To 25, Add	1.31	
			For >25 To 50, Add	0.75	
			For >50 To 150, Add	0.29	
			For High Strength Shotcrete Repair, Add	2.23	
			For Polymer Modified Shotcrete, Add	1.79	
03 37 13 00-0006	SF		3" Thick Shotcrete, Fiber Reinforced	8.77	
			For Up To 25, Add	1.59	
			For >25 To 50, Add	0.91	
			For >50 To 150, Add	0.35	
03 37 13 00-0007	SF		4" Thick Shotcrete, Fiber Reinforced	11.05	
			For Up To 25, Add	1.96	
			For >25 To 50, Add	1.12	
			For >50 To 150, Add	0.43	
03 37 13 00-0008	SF		6" Thick Shotcrete, Fiber Reinforced	14.97	
			For Up To 25, Add	2.53	
			For >25 To 50, Add	1.44	
			For >50 To 150, Add	0.52	
03 37 13 00-0009 Gunite (Dry Mix Shotcrete), Sprayed (03 37 13)					
See CSI section 03 22 11 00-0001 for 2"x2" (W 0.9 x W 0.9) wire mesh reinforcing.					
03 37 13 00-0010	SF		1" Thick Gunite (Dry Mix Shotcrete), Sprayed	3.60	
			For Radius Or Irregular Surface, Add	1.07	
			For Up To 25, Add	0.76	
			For >25 To 50, Add	0.45	
			For >50 To 150, Add	0.20	

03 Concrete**03 30 Cast-In-Place Concrete****03 37 Specialty Placed Concrete**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 37 13 00-0011 SF 2" Thick Gunitite (Dry Mix Shotcrete), Sprayed	6.65	
For Radius Or Irregular Surface, Add	1.93	
For Up To 25, Add	1.39	
For >25 To 50, Add	0.81	
For >50 To 150, Add	0.36	
03 37 13 00-0012 SF 3" Thick Gunitite (Dry Mix Shotcrete), Sprayed	9.26	
For Radius Or Irregular Surface, Add	2.60	
For Up To 25, Add	1.90	
For >25 To 50, Add	1.11	
For >50 To 150, Add	0.49	
03 37 13 00-0013 SF 4" Thick Gunitite (Dry Mix Shotcrete), Sprayed	11.46	
For Radius Or Irregular Surface, Add	3.12	
For Up To 25, Add	2.32	
For >25 To 50, Add	1.35	
For >50 To 150, Add	0.59	
03 37 13 00-0014 SF 5" Thick Gunitite (Dry Mix Shotcrete), Sprayed	13.36	
For Radius Or Irregular Surface, Add	3.51	
For Up To 25, Add	2.65	
For >25 To 50, Add	1.55	
For >50 To 150, Add	0.66	
03 37 13 00-0015 SF 6" Thick Gunitite (Dry Mix Shotcrete), Sprayed	14.99	
For Radius Or Irregular Surface, Add	3.80	
For Up To 25, Add	2.92	
For >25 To 50, Add	1.70	
For >50 To 150, Add	0.71	
03 37 13 00-0016 SF 8" Thick Gunitite (Dry Mix Shotcrete), Sprayed	18.71	
For Radius Or Irregular Surface, Add	4.55	
For Up To 25, Add	3.58	
For >25 To 50, Add	2.07	
For >50 To 150, Add	0.85	
03 37 13 00-0017 SF 10" Thick Gunitite (Dry Mix Shotcrete), Sprayed	21.96	
For Radius Or Irregular Surface, Add	5.12	
For Up To 25, Add	4.12	
For >25 To 50, Add	2.38	
For >50 To 150, Add	0.96	
03 37 13 00-0018 SF 12" Thick Gunitite (Dry Mix Shotcrete), Sprayed	24.82	
For Radius Or Irregular Surface, Add	5.53	
For Up To 25, Add	4.56	
For >25 To 50, Add	2.62	
For >50 To 150, Add	1.04	

03 37 16 Pumped Concrete (03 37)**03 37 16 00-0001 Concrete Pumping With Boom Truck (03 37 16)**

Note: Includes truck rental, operator, and local travel delivery. For delivery/set-up of equipment add one hour, for clean-up of equipment add one hour. Use four hours as the minimum cost including set-up and clean-up. Excludes concrete, use "Concrete Pump" concrete tasks from appropriate section to place into pump hopper and place concrete. Sizes are measured at a 30 degree vertical reach. See CSI section 03 31 13 00-0010 for concrete placement.

03 37 16 00-0002 HR 55' To 60' Boom Truck For Concrete Placement (95 CY Per Hour Rating)	234.64
03 37 16 00-0003 HR 70' To 80' Boom Truck For Concrete Placement (117 CY Per Hour Rating)	255.60
03 37 16 00-0004 HR 90' To 100' Boom Truck For Concrete Placement (117 CY Per Hour Rating)	331.32
03 37 16 00-0005 HR 105' To 115' Boom Truck For Concrete Placement (117 CY Per Hour Rating)	378.45
03 37 16 00-0006 HR 120' To 130' Boom Truck For Concrete Placement (170 CY Per Hour Rating)	427.09
03 37 16 00-0007 HR 135' To 140' Boom Truck For Concrete Placement (170 CY Per Hour Rating)	530.10
03 37 16 00-0008 HR 148' To 155' Boom Truck For Concrete Placement (170 CY Per Hour Rating)	591.56
03 37 16 00-0009 HR 170' To 175' Boom Truck For Concrete Placement (182 CY Per Hour Rating)	740.42
03 37 16 00-0010 HR 35 CY/HR, 66 HP Trailer Mounted Concrete Pump	166.00

Note: Includes hoses

03 39 Concrete Curing (03 30)**03 39 13 Water Concrete Curing (03 39)****03 39 13 00-0001 Water Concrete Curing (03 39 13)**

03 39 13 00-0002 SF Water Based Curing, Sealing, Hardening And Dustproofing Compound	0.34

Note: Coverage rates: rough finish = 300 SF/GAL, broom finish = 300 to 400 SF/GAL, steel troweled = 500 to 600 SF/GAL, and vertical surface = 400 - 500 SF/GAL.

03 39 23 Membrane Concrete Curing (03 39)**03 39 23 23 Sheet Membrane Concrete Curing (03 39 23)****03 39 23 23-0001 Warm Weather Concrete Curing Blankets (03 39 23 23)**

03 39 23 23-0002 CSF Warm Weather Concrete Curing Blankets	37.12

03 39 23 23-0003 Cold Weather Concrete Curing Blankets (03 39 23 23)

03 39 23 23-0004 CSF Electric, Cold Weather Concrete Curing Blanket	296.46
03 39 23 23-0005 CSF Non-Electric, Cold Weather Concrete Curing Blanket	36.64



	Concrete	03	CS
	Cast-In-Place Concrete	03 30	
	Concrete Curing	03 39	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

03 39 33 Concrete Surface Treatments (03 39)

03 39 33 00-0001 Shake On Floor Hardeners (03 39 33)

03 39 33 00-0002	SF	0.3 LB/SF, Metallic, Shake On Floor Hardener	1.31
03 39 33 00-0003	SF	0.65 LB/SF, Metallic, Shake On Floor Hardener	2.09
03 39 33 00-0004	SF	0.3 LB/SF, Non Metallic, Shake On Floor Hardener	1.22
03 39 33 00-0005	SF	0.65 LB/SF, Non Metallic, Shake On Floor Hardener	1.55

03 60 Grouting (03)

03 61 Cementitious Grouting (03 60)

Note: 1 part cement to 3 parts sand by volume.

03 61 16 Cementitious Flowable Grout (03 61)

03 61 16 00-0001 Cementitious Flowable Grout (03 61 16)

03 61 16 00-0002	CY	Cementitious Flowable Grout	521.85

03 62 Non-Shrink Grouting (03 60)

03 62 13 Non-Metallic Non-Shrink Grouting (03 62)

03 62 13 00-0001 Fluid Type, Non-Metallic Non-Shrink Grouting For Bases (03 62 13)

03 62 13 00-0002	SF	1" Deep, Fluid Type, Non-Metallic Non-Shrink Grout For Bases	28.08
03 62 13 00-0003	SF	2" Deep, Fluid Type, Non-Metallic Non-Shrink Grout For Bases	43.07

03 62 13 00-0004 Non-Metallic Non-Shrink Grouting For Bases (03 62 13)

03 62 13 00-0005	SF	1" Deep, Non-Metallic Non-Shrink Grout For Bases	43.68
03 62 13 00-0006	SF	2" Deep, Non-Metallic Non-Shrink Grout For Bases	71.91

03 62 13 00-0007 Non-Metallic Non-Shrink Grouting For Joints (03 62 13)

03 62 13 00-0008 1/2" Joint Thickness, Non-Metallic Non-Shrink Grout For Joints (03 62 13 00-0007)

03 62 13 00-0009	LF	4" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints	2.19
03 62 13 00-0010	LF	6" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints	2.91
03 62 13 00-0011	LF	8" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints	3.85

03 62 13 00-0012 1" Joint Thickness, Non-Metallic Non-Shrink Grout For Joints (03 62 13 00-0007)

03 62 13 00-0013	LF	4" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints	3.33
03 62 13 00-0014	LF	6" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints	4.49
03 62 13 00-0015	LF	8" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints	5.97

03 62 16 Metallic Non-Shrink Grouting (03 62)

03 62 16 00-0001 Metallic Non-Shrink Grouting For Bases (03 62 16)

03 62 16 00-0002	SF	1" Deep, Metallic Non-Shrink Grout For Bases	35.55
03 62 16 00-0003	SF	2" Deep, Metallic Non-Shrink Grout For Bases	56.16

03 62 16 00-0004 Metallic Non-Shrink Grouting For Joints (03 62 16)

03 62 16 00-0005 1/2" Joint Thickness, Metallic Non-Shrink Grout For Joints (03 62 16 00-0004)

03 62 16 00-0006	LF	4" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints	1.68
03 62 16 00-0007	LF	6" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints	2.14
03 62 16 00-0008	LF	8" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints	2.86

03 62 16 00-0009 1" Joint Thickness, Metallic Non-Shrink Grout For Joints (03 62 16 00-0004)

03 62 16 00-0010	LF	4" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints	2.34
03 62 16 00-0011	LF	6" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints	2.96
03 62 16 00-0012	LF	8" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints	3.96

03 64 Injection Grouting (03 60)

Note: By volume of void filled. Includes injection ports.

03 64 23 Epoxy Injection Grouting (03 64)

03 64 23 00-0001 Pressure Injected Epoxy Grout (03 64 23)

03 64 23 00-0002	CF	Pressure Injected Epoxy Grout	1,279.43
For >4, Deduct			-135.44

03 64 26 Cementitious Injection Grouting (03 64)

03	03	Concrete
	03 60	Grouting
	03 64	Injection Grouting



MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
03 64 26 00-0001 Pressure Injected Cementitious Grout (03 64 26)					
03 64 26 00-0002	CF	Pressure Injected Cementitious Grout		224.01	
	<i>For >4, Deduct</i>			-58.38	

END OF SECTION 03



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

05 Metals

05 05 Common Work Results for Metals (05)

05 05 19 Post-Installed Concrete Anchors (05 05)

See CSI section 03 15 19 00-0000 for cast-in concrete anchors.

05 05 19 00-0001 Concrete And Masonry Anchors (05 05 19)

05 05 19 00-0002 Expansion Anchors (05 05 19 00-0001)

Note: Includes drilling.

05 05 19 00-0003 Wedge Expansion Bolt Anchors (05 05 19 00-0002)

05 05 19 00-0004 Zinc Plated Steel, Wedge Anchor Expansion Bolt (05 05 19 00-0003)

Note: Includes nut and washer.

05 05 19 00-0005	EA 1/4" Diameter x 1-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	12.51
	For >10 To 50, Deduct	-0.60
	For >50 To 100, Deduct	-1.21
	For >100, Deduct	-2.41
05 05 19 00-0006	EA 1/4" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	12.61
	For >10 To 50, Deduct	-0.60
	For >50 To 100, Deduct	-1.21
	For >100, Deduct	-2.42
05 05 19 00-0007	EA 1/4" Diameter x 3-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	12.98
	For >10 To 50, Deduct	-0.61
	For >50 To 100, Deduct	-1.24
	For >100, Deduct	-2.48
05 05 19 00-0008	EA 3/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	15.33
	For >10 To 50, Deduct	-0.72
	For >50 To 100, Deduct	-1.47
	For >100, Deduct	-2.94
05 05 19 00-0009	EA 3/8" Diameter x 2-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	15.39
	For >10 To 50, Deduct	-0.72
	For >50 To 100, Deduct	-1.47
	For >100, Deduct	-2.94
05 05 19 00-0010	EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	15.42
	For >10 To 50, Deduct	-0.72
	For >50 To 100, Deduct	-1.47
	For >100, Deduct	-2.94
05 05 19 00-0011	EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	15.70
	For >10 To 50, Deduct	-0.72
	For >50 To 100, Deduct	-1.48
	For >100, Deduct	-2.96
05 05 19 00-0012	EA 1/2" Diameter x 2-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	22.14
	For >10 To 50, Deduct	-1.03
	For >50 To 100, Deduct	-2.10
	For >100, Deduct	-4.20
05 05 19 00-0013	EA 1/2" Diameter x 3-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	22.19
	For >10 To 50, Deduct	-1.03
	For >50 To 100, Deduct	-2.10
	For >100, Deduct	-4.20
05 05 19 00-0014	EA 1/2" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	22.31
	For >10 To 50, Deduct	-1.03
	For >50 To 100, Deduct	-2.10
	For >100, Deduct	-4.20
05 05 19 00-0015	EA 1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	22.61
	For >10 To 50, Deduct	-1.03
	For >50 To 100, Deduct	-2.11
	For >100, Deduct	-4.22
05 05 19 00-0016	EA 1/2" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	23.03
	For >10 To 50, Deduct	-1.03
	For >50 To 100, Deduct	-2.12
	For >100, Deduct	-4.24
05 05 19 00-0017	EA 5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	28.54
	For >10 To 50, Deduct	-1.27
	For >50 To 100, Deduct	-2.62
	For >100, Deduct	-5.24
05 05 19 00-0018	EA 5/8" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	28.63
	For >10 To 50, Deduct	-1.27
	For >50 To 100, Deduct	-2.62
	For >100, Deduct	-5.24
05 05 19 00-0019	EA 5/8" Diameter x 5" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	28.82
	For >10 To 50, Deduct	-1.27
	For >50 To 100, Deduct	-2.63
	For >100, Deduct	-5.25
05 05 19 00-0020	EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	29.20
	For >10 To 50, Deduct	-1.27
	For >50 To 100, Deduct	-2.64
	For >100, Deduct	-5.27
05 05 19 00-0021	EA 5/8" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	29.57
	For >10 To 50, Deduct	-1.27
	For >50 To 100, Deduct	-2.65
	For >100, Deduct	-5.29

05 Metals**05 05 Common Work Results for Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0022	EA		5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	32.54	
			For >10 To 50, Deduct	-1.27	
			For >50 To 100, Deduct	-2.72	
			For >100, Deduct	-5.44	
05 05 19 00-0023	EA		5/8" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	35.09	
			For >10 To 50, Deduct	-1.27	
			For >50 To 100, Deduct	-2.78	
			For >100, Deduct	-5.57	
05 05 19 00-0024	EA		3/4" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	34.36	
			For >10 To 50, Deduct	-1.51	
			For >50 To 100, Deduct	-3.13	
			For >100, Deduct	-6.25	
05 05 19 00-0025	EA		3/4" Diameter x 4-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	34.44	
			For >10 To 50, Deduct	-1.51	
			For >50 To 100, Deduct	-3.13	
			For >100, Deduct	-6.26	
05 05 19 00-0026	EA		3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	34.89	
			For >10 To 50, Deduct	-1.51	
			For >50 To 100, Deduct	-3.14	
			For >100, Deduct	-6.28	
05 05 19 00-0027	EA		3/4" Diameter x 6-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	35.44	
			For >10 To 50, Deduct	-1.51	
			For >50 To 100, Deduct	-3.15	
			For >100, Deduct	-6.31	
05 05 19 00-0028	EA		3/4" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	36.06	
			For >10 To 50, Deduct	-1.51	
			For >50 To 100, Deduct	-3.17	
			For >100, Deduct	-6.34	
05 05 19 00-0029	EA		3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	38.45	
			For >10 To 50, Deduct	-1.51	
			For >50 To 100, Deduct	-3.23	
			For >100, Deduct	-6.46	
05 05 19 00-0030	EA		3/4" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	41.61	
			For >10 To 50, Deduct	-1.51	
			For >50 To 100, Deduct	-3.31	
			For >100, Deduct	-6.62	
05 05 19 00-0031	EA		3/4" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	45.18	
			For >10 To 50, Deduct	-1.51	
			For >50 To 100, Deduct	-3.40	
			For >100, Deduct	-6.80	
05 05 19 00-0032	EA		7/8" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	44.58	
			For >10 To 50, Deduct	-1.64	
			For >50 To 100, Deduct	-3.58	
			For >100, Deduct	-7.15	
05 05 19 00-0033	EA		7/8" Diameter x 8" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	46.46	
			For >10 To 50, Deduct	-1.64	
			For >50 To 100, Deduct	-3.62	
			For >100, Deduct	-7.24	
05 05 19 00-0034	EA		7/8" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	48.95	
			For >10 To 50, Deduct	-1.64	
			For >50 To 100, Deduct	-3.68	
			For >100, Deduct	-7.37	
05 05 19 00-0035	EA		1" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	55.56	
			For >10 To 50, Deduct	-2.12	
			For >50 To 100, Deduct	-4.57	
			For >100, Deduct	-9.15	
05 05 19 00-0036	EA		1" Diameter x 9" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	59.10	
			For >10 To 50, Deduct	-2.12	
			For >50 To 100, Deduct	-4.66	
			For >100, Deduct	-9.33	
05 05 19 00-0037	EA		1" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	62.60	
			For >10 To 50, Deduct	-2.12	
			For >50 To 100, Deduct	-4.75	
			For >100, Deduct	-9.50	
05 05 19 00-0038	EA		1-1/4" Diameter x 9" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	72.19	
			For >10 To 50, Deduct	-2.72	
			For >50 To 100, Deduct	-5.88	
			For >100, Deduct	-11.77	
05 05 19 00-0039	EA		1-1/4" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt	74.71	
			For >10 To 50, Deduct	-2.72	
			For >50 To 100, Deduct	-5.95	
			For >100, Deduct	-11.89	
05 05 19 00-0040			304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt (05 05 19 00-0003)		
			Note: Includes nut and washer.		
05 05 19 00-0041	EA		1/4" Diameter x 1-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt	14.31	
			For >10 To 50, Deduct	-0.60	
			For >50 To 100, Deduct	-1.25	
			For >100, Deduct	-2.50	
05 05 19 00-0042	EA		1/4" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt	14.87	
			For >10 To 50, Deduct	-0.60	
			For >50 To 100, Deduct	-1.27	
			For >100, Deduct	-2.53	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0043	EA	1/4" Diameter x 3-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	15.52		
		For >10 To 50, Deduct	-0.61		
		For >50 To 100, Deduct	-1.30		
		For >100, Deduct	-2.61		
05 05 19 00-0044	EA	3/8" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	18.50		
		For >10 To 50, Deduct	-0.72		
		For >50 To 100, Deduct	-1.55		
		For >100, Deduct	-3.10		
05 05 19 00-0045	EA	3/8" Diameter x 2-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	18.98		
		For >10 To 50, Deduct	-0.72		
		For >50 To 100, Deduct	-1.56		
		For >100, Deduct	-3.12		
05 05 19 00-0046	EA	3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	19.33		
		For >10 To 50, Deduct	-0.72		
		For >50 To 100, Deduct	-1.57		
		For >100, Deduct	-3.14		
05 05 19 00-0047	EA	3/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	21.94		
		For >10 To 50, Deduct	-0.72		
		For >50 To 100, Deduct	-1.63		
		For >100, Deduct	-3.27		
05 05 19 00-0048	EA	1/2" Diameter x 2-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	29.04		
		For >10 To 50, Deduct	-1.03		
		For >50 To 100, Deduct	-2.27		
		For >100, Deduct	-4.54		
05 05 19 00-0049	EA	1/2" Diameter x 3-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	29.94		
		For >10 To 50, Deduct	-1.03		
		For >50 To 100, Deduct	-2.29		
		For >100, Deduct	-4.59		
05 05 19 00-0050	EA	1/2" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	30.46		
		For >10 To 50, Deduct	-1.03		
		For >50 To 100, Deduct	-2.31		
		For >100, Deduct	-4.61		
05 05 19 00-0051	EA	1/2" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	32.84		
		For >10 To 50, Deduct	-1.03		
		For >50 To 100, Deduct	-2.37		
		For >100, Deduct	-4.73		
05 05 19 00-0052	EA	1/2" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	36.41		
		For >10 To 50, Deduct	-1.03		
		For >50 To 100, Deduct	-2.45		
		For >100, Deduct	-4.91		
05 05 19 00-0053	EA	5/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	42.55		
		For >10 To 50, Deduct	-1.27		
		For >50 To 100, Deduct	-2.97		
		For >100, Deduct	-5.94		
05 05 19 00-0054	EA	5/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	44.87		
		For >10 To 50, Deduct	-1.27		
		For >50 To 100, Deduct	-3.03		
		For >100, Deduct	-6.06		
05 05 19 00-0055	EA	5/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	47.38		
		For >10 To 50, Deduct	-1.27		
		For >50 To 100, Deduct	-3.09		
		For >100, Deduct	-6.18		
05 05 19 00-0056	EA	5/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	50.73		
		For >10 To 50, Deduct	-1.27		
		For >50 To 100, Deduct	-3.17		
		For >100, Deduct	-6.35		
05 05 19 00-0057	EA	5/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	65.39		
		For >10 To 50, Deduct	-1.27		
		For >50 To 100, Deduct	-3.54		
		For >100, Deduct	-7.08		
05 05 19 00-0058	EA	3/4" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	50.80		
		For >10 To 50, Deduct	-1.51		
		For >50 To 100, Deduct	-3.54		
		For >100, Deduct	-7.08		
05 05 19 00-0059	EA	3/4" Diameter x 4-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	55.53		
		For >10 To 50, Deduct	-1.51		
		For >50 To 100, Deduct	-3.66		
		For >100, Deduct	-7.31		
05 05 19 00-0060	EA	3/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	59.56		
		For >10 To 50, Deduct	-1.51		
		For >50 To 100, Deduct	-3.76		
		For >100, Deduct	-7.51		
05 05 19 00-0061	EA	3/4" Diameter x 6-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	60.06		
		For >10 To 50, Deduct	-1.51		
		For >50 To 100, Deduct	-3.77		
		For >100, Deduct	-7.54		
05 05 19 00-0062	EA	3/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	63.84		
		For >10 To 50, Deduct	-1.51		
		For >50 To 100, Deduct	-3.86		
		For >100, Deduct	-7.73		
05 05 19 00-0063	EA	3/4" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	73.68		
		For >10 To 50, Deduct	-1.51		
		For >50 To 100, Deduct	-4.11		
		For >100, Deduct	-8.22		

05 Metals**05 05 Common Work Results for Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0064	EA	3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	87.54	
		For >10 To 50, Deduct	-1.51	
		For >50 To 100, Deduct	-4.46	
		For >100, Deduct	-8.91	
05 05 19 00-0065	EA	7/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	87.53	
		For >10 To 50, Deduct	-1.64	
		For >50 To 100, Deduct	-4.65	
		For >100, Deduct	-9.30	
05 05 19 00-0066	EA	1" Diameter x 6" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	128.29	
		For >10 To 50, Deduct	-2.12	
		For >50 To 100, Deduct	-6.39	
		For >100, Deduct	-12.79	
05 05 19 00-0067	EA	1" Diameter x 9" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	148.80	
		For >10 To 50, Deduct	-2.12	
		For >50 To 100, Deduct	-6.91	
		For >100, Deduct	-13.81	
05 05 19 00-0068 316 Stainless Steel, Wedge Anchor Expansion Bolt (05 05 19 00-0003)				
Note: Includes nut and washer.				
05 05 19 00-0069	EA	1/4" Diameter x 2-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	14.79	
		For >10 To 50, Deduct	-0.60	
		For >50 To 100, Deduct	-1.26	
		For >100, Deduct	-2.53	
05 05 19 00-0070	EA	1/4" Diameter x 3-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	15.73	
		For >10 To 50, Deduct	-0.61	
		For >50 To 100, Deduct	-1.31	
		For >100, Deduct	-2.62	
05 05 19 00-0071	EA	3/8" Diameter x 2-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	20.06	
		For >10 To 50, Deduct	-0.72	
		For >50 To 100, Deduct	-1.59	
		For >100, Deduct	-3.17	
05 05 19 00-0072	EA	3/8" Diameter x 2-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	20.88	
		For >10 To 50, Deduct	-0.72	
		For >50 To 100, Deduct	-1.61	
		For >100, Deduct	-3.21	
05 05 19 00-0073	EA	3/8" Diameter x 3" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	21.09	
		For >10 To 50, Deduct	-0.72	
		For >50 To 100, Deduct	-1.61	
		For >100, Deduct	-3.23	
05 05 19 00-0074	EA	3/8" Diameter x 5" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	25.03	
		For >10 To 50, Deduct	-0.72	
		For >50 To 100, Deduct	-1.71	
		For >100, Deduct	-3.42	
05 05 19 00-0075	EA	1/2" Diameter x 2-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	32.80	
		For >10 To 50, Deduct	-1.03	
		For >50 To 100, Deduct	-2.36	
		For >100, Deduct	-4.73	
05 05 19 00-0076	EA	1/2" Diameter x 3-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	35.09	
		For >10 To 50, Deduct	-1.03	
		For >50 To 100, Deduct	-2.42	
		For >100, Deduct	-4.84	
05 05 19 00-0077	EA	1/2" Diameter x 4-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	39.23	
		For >10 To 50, Deduct	-1.03	
		For >50 To 100, Deduct	-2.53	
		For >100, Deduct	-5.05	
05 05 19 00-0078	EA	1/2" Diameter x 5-1/2" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	40.27	
		For >10 To 50, Deduct	-1.03	
		For >50 To 100, Deduct	-2.55	
		For >100, Deduct	-5.10	
05 05 19 00-0079	EA	5/8" Diameter x 5" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	55.26	
		For >10 To 50, Deduct	-1.27	
		For >50 To 100, Deduct	-3.29	
		For >100, Deduct	-6.58	
05 05 19 00-0080	EA	5/8" Diameter x 7" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	56.50	
		For >10 To 50, Deduct	-1.27	
		For >50 To 100, Deduct	-3.32	
		For >100, Deduct	-6.64	
05 05 19 00-0081	EA	3/4" Diameter x 4-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	68.58	
		For >10 To 50, Deduct	-1.51	
		For >50 To 100, Deduct	-3.98	
		For >100, Deduct	-7.97	
05 05 19 00-0082	EA	3/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	73.77	
		For >10 To 50, Deduct	-1.51	
		For >50 To 100, Deduct	-4.11	
		For >100, Deduct	-8.22	
05 05 19 00-0083 Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt (05 05 19 00-0003)				
Note: Includes nut and washer.				
05 05 19 00-0084	EA	1/2" Diameter x 2-3/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	24.61	
		For >10 To 50, Deduct	-1.03	
		For >50 To 100, Deduct	-2.16	
		For >100, Deduct	-4.32	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0085	EA	1/2" Diameter x 4-1/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	.....	25.68	
		For >10 To 50, Deduct		-1.03	
		For >50 To 100, Deduct		-2.19	
		For >100, Deduct		-4.37	
05 05 19 00-0086	EA	1/2" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	.....	26.74	
		For >10 To 50, Deduct		-1.03	
		For >50 To 100, Deduct		-2.21	
		For >100, Deduct		-4.43	
05 05 19 00-0087	EA	1/2" Diameter x 7" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	.....	27.27	
		For >10 To 50, Deduct		-1.03	
		For >50 To 100, Deduct		-2.23	
		For >100, Deduct		-4.45	
05 05 19 00-0088	EA	5/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	.....	33.05	
		For >10 To 50, Deduct		-1.27	
		For >50 To 100, Deduct		-2.73	
		For >100, Deduct		-5.47	
05 05 19 00-0089	EA	5/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	.....	31.78	
		For >10 To 50, Deduct		-1.27	
		For >50 To 100, Deduct		-2.70	
		For >100, Deduct		-5.40	
05 05 19 00-0090	EA	3/4" Diameter x 4-3/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	.....	42.12	
		For >10 To 50, Deduct		-1.51	
		For >50 To 100, Deduct		-3.32	
		For >100, Deduct		-6.64	
05 05 19 00-0091	EA	3/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	.....	43.29	
		For >10 To 50, Deduct		-1.51	
		For >50 To 100, Deduct		-3.35	
		For >100, Deduct		-6.70	
05 05 19 00-0092	EA	3/4" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	.....	49.03	
		For >10 To 50, Deduct		-1.51	
		For >50 To 100, Deduct		-3.49	
		For >100, Deduct		-6.99	
05 05 19 00-0093	EA	1" Diameter x 6" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	.....	54.69	
		For >10 To 50, Deduct		-2.12	
		For >50 To 100, Deduct		-4.55	
		For >100, Deduct		-9.11	
05 05 19 00-0094	EA	1" Diameter x 9" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	.....	57.99	
		For >10 To 50, Deduct		-2.12	
		For >50 To 100, Deduct		-4.64	
		For >100, Deduct		-9.27	
05 05 19 00-0095	EA	1" Diameter x 12" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt	.....	61.26	
		For >10 To 50, Deduct		-2.12	
		For >50 To 100, Deduct		-4.72	
		For >100, Deduct		-9.43	
05 05 19 00-0096	Concrete Sleeve Anchors (05 05 19 00-0002)				
05 05 19 00-0097	Zinc Plated Steel, Concrete Sleeve Anchors (05 05 19 00-0096)				
	Note: Includes nut and washer.				
05 05 19 00-0098	EA	1/4" Diameter x 5/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	.....	12.61	
		For >10 To 50, Deduct		-0.61	
		For >50 To 100, Deduct		-1.23	
		For >100, Deduct		-2.46	
05 05 19 00-0099	EA	1/4" Diameter x 1-3/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	.....	12.75	
		For >10 To 50, Deduct		-0.61	
		For >50 To 100, Deduct		-1.23	
		For >100, Deduct		-2.46	
05 05 19 00-0100	EA	1/4" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	.....	12.91	
		For >10 To 50, Deduct		-0.61	
		For >50 To 100, Deduct		-1.24	
		For >100, Deduct		-2.47	
05 05 19 00-0101	EA	5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	.....	13.29	
		For >10 To 50, Deduct		-0.64	
		For >50 To 100, Deduct		-1.29	
		For >100, Deduct		-2.58	
05 05 19 00-0102	EA	5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	.....	13.41	
		For >10 To 50, Deduct		-0.64	
		For >50 To 100, Deduct		-1.29	
		For >100, Deduct		-2.59	
05 05 19 00-0103	EA	3/8" Diameter x 1-7/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor	.....	15.04	
		For >10 To 50, Deduct		-0.72	
		For >50 To 100, Deduct		-1.46	
		For >100, Deduct		-2.92	
05 05 19 00-0104	EA	3/8" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	.....	15.27	
		For >10 To 50, Deduct		-0.72	
		For >50 To 100, Deduct		-1.47	
		For >100, Deduct		-2.93	
05 05 19 00-0105	EA	3/8" Diameter x 4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	.....	15.48	
		For >10 To 50, Deduct		-0.72	
		For >50 To 100, Deduct		-1.47	
		For >100, Deduct		-2.94	
05 05 19 00-0106	EA	1/2" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	.....	21.62	
		For >10 To 50, Deduct		-1.03	
		For >50 To 100, Deduct		-2.08	
		For >100, Deduct		-4.17	

05 Metals**05 05 Common Work Results for Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0107	EA		1/2" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	21.90	
			For >10 To 50, Deduct	-1.03	
			For >50 To 100, Deduct	-2.09	
			For >100, Deduct	-4.18	
05 05 19 00-0108	EA		1/2" Diameter x 4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	22.15	
			For >10 To 50, Deduct	-1.03	
			For >50 To 100, Deduct	-2.10	
			For >100, Deduct	-4.19	
05 05 19 00-0109	EA		1/2" Diameter x 6" Length, Zinc Plated Steel, Concrete Sleeve Anchor	22.45	
			For >10 To 50, Deduct	-1.03	
			For >50 To 100, Deduct	-2.10	
			For >100, Deduct	-4.21	
05 05 19 00-0110	EA		5/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	27.05	
			For >10 To 50, Deduct	-1.27	
			For >50 To 100, Deduct	-2.58	
			For >100, Deduct	-5.16	
05 05 19 00-0111	EA		5/8" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor	27.48	
			For >10 To 50, Deduct	-1.27	
			For >50 To 100, Deduct	-2.59	
			For >100, Deduct	-5.19	
05 05 19 00-0112	EA		5/8" Diameter x 4-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	27.81	
			For >10 To 50, Deduct	-1.27	
			For >50 To 100, Deduct	-2.60	
			For >100, Deduct	-5.20	
05 05 19 00-0113	EA		5/8" Diameter x 6" Length, Zinc Plated Steel, Concrete Sleeve Anchor	28.74	
			For >10 To 50, Deduct	-1.27	
			For >50 To 100, Deduct	-2.62	
			For >100, Deduct	-5.25	
05 05 19 00-0114	EA		3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	32.97	
			For >10 To 50, Deduct	-1.51	
			For >50 To 100, Deduct	-3.09	
			For >100, Deduct	-6.18	
05 05 19 00-0115	EA		3/4" Diameter x 4-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	33.78	
			For >10 To 50, Deduct	-1.51	
			For >50 To 100, Deduct	-3.11	
			For >100, Deduct	-6.23	
05 05 19 00-0116	EA		3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor	34.50	
			For >10 To 50, Deduct	-1.51	
			For >50 To 100, Deduct	-3.13	
			For >100, Deduct	-6.26	
05 05 19 00-0117	EA		3/4" Diameter x 6-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor	35.66	
			For >10 To 50, Deduct	-1.51	
			For >50 To 100, Deduct	-3.16	
			For >100, Deduct	-6.32	
05 05 19 00-0118			304/18-8 Stainless Steel, Concrete Sleeve Anchors (05 05 19 00-0096)		
			Note: Includes nut and washer.		
05 05 19 00-0119	EA		1/4" Diameter x 1-3/8" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	15.15	
			For >10 To 50, Deduct	-0.61	
			For >50 To 100, Deduct	-1.29	
			For >100, Deduct	-2.58	
05 05 19 00-0120	EA		3/8" Diameter x 1-7/8" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	20.03	
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.59	
			For >100, Deduct	-3.17	
05 05 19 00-0121	EA		3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	22.24	
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.64	
			For >100, Deduct	-3.28	
05 05 19 00-0122	EA		1/2" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	30.01	
			For >10 To 50, Deduct	-1.03	
			For >50 To 100, Deduct	-2.29	
			For >100, Deduct	-4.58	
05 05 19 00-0123	EA		1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	33.98	
			For >10 To 50, Deduct	-1.03	
			For >50 To 100, Deduct	-2.39	
			For >100, Deduct	-4.78	
05 05 19 00-0124	EA		5/8" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor	47.01	
			For >10 To 50, Deduct	-1.27	
			For >50 To 100, Deduct	-3.08	
			For >100, Deduct	-6.16	
05 05 19 00-0125			Concrete Strike Anchors (05 05 19 00-0002)		
			Note: Includes nut and washer.		
05 05 19 00-0126	EA		1/4" Diameter x 1-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor	13.27	
			For >10 To 50, Deduct	-0.61	
			For >50 To 100, Deduct	-1.24	
			For >100, Deduct	-2.49	
05 05 19 00-0127	EA		1/4" Diameter x 2-3/8" Length, Zinc Plated Steel, Concrete Strike Anchor	13.50	
			For >10 To 50, Deduct	-0.61	
			For >50 To 100, Deduct	-1.25	
			For >100, Deduct	-2.50	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0128	EA		5/16" Diameter x 2-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor.....	14.10	
			For >10 To 50, Deduct	-0.64	
			For >50 To 100, Deduct	-1.31	
			For >100, Deduct	-2.62	
05 05 19 00-0129	EA		5/16" Diameter x 4" Length, Zinc Plated Steel, Concrete Strike Anchor.....	15.04	
			For >10 To 50, Deduct	-0.64	
			For >50 To 100, Deduct	-1.33	
			For >100, Deduct	-2.67	
05 05 19 00-0130	EA		3/8" Diameter x 2-3/8" Length, Zinc Plated Steel, Concrete Strike Anchor.....	16.06	
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.49	
			For >100, Deduct	-2.97	
05 05 19 00-0131	EA		3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Concrete Strike Anchor.....	16.77	
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.50	
			For >100, Deduct	-3.01	
05 05 19 00-0132	EA		3/8" Diameter x 5" Length, Zinc Plated Steel, Concrete Strike Anchor.....	17.31	
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.52	
			For >100, Deduct	-3.03	
05 05 19 00-0133	EA		1/2" Diameter x 2-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor.....	23.37	
			For >10 To 50, Deduct	-1.03	
			For >50 To 100, Deduct	-2.13	
			For >100, Deduct	-4.25	
05 05 19 00-0134	EA		1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Concrete Strike Anchor.....	23.79	
			For >10 To 50, Deduct	-1.03	
			For >50 To 100, Deduct	-2.14	
			For >100, Deduct	-4.27	
05 05 19 00-0135	EA		1/2" Diameter x 4-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor.....	25.03	
			For >10 To 50, Deduct	-1.03	
			For >50 To 100, Deduct	-2.17	
			For >100, Deduct	-4.34	
05 05 19 00-0136	EA		1/2" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor.....	26.63	
			For >10 To 50, Deduct	-1.03	
			For >50 To 100, Deduct	-2.21	
			For >100, Deduct	-4.42	
05 05 19 00-0137	EA		5/8" Diameter x 4" Length, Zinc Plated Steel, Concrete Strike Anchor.....	30.77	
			For >10 To 50, Deduct	-1.27	
			For >50 To 100, Deduct	-2.68	
			For >100, Deduct	-5.35	
05 05 19 00-0138	EA		5/8" Diameter x 4-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor.....	32.24	
			For >10 To 50, Deduct	-1.27	
			For >50 To 100, Deduct	-2.71	
			For >100, Deduct	-5.42	
05 05 19 00-0139	EA		5/8" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor.....	33.55	
			For >10 To 50, Deduct	-1.27	
			For >50 To 100, Deduct	-2.74	
			For >100, Deduct	-5.49	
05 05 19 00-0140	EA		3/4" Diameter x 5" Length, Zinc Plated Steel, Concrete Strike Anchor.....	39.14	
			For >10 To 50, Deduct	-1.51	
			For >50 To 100, Deduct	-3.25	
			For >100, Deduct	-6.49	
05 05 19 00-0141	EA		3/4" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor.....	40.53	
			For >10 To 50, Deduct	-1.51	
			For >50 To 100, Deduct	-3.28	
			For >100, Deduct	-6.56	
05 05 19 00-0142			Multi-Set Drop-In Anchors (05 05 19 00-0002)		
05 05 19 00-0143			Zinc Plated Steel, Multi-Set Drop-In Anchors (05 05 19 00-0142)		
			Note: Excludes bolt, nut and washer.		
05 05 19 00-0144	EA		1/4" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor.....	17.53	
			For >10 To 50, Deduct	-0.85	
			For >50 To 100, Deduct	-1.71	
			For >100, Deduct	-3.42	
05 05 19 00-0145	EA		3/8" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor.....	21.42	
			For >10 To 50, Deduct	-1.03	
			For >50 To 100, Deduct	-2.08	
			For >100, Deduct	-4.17	
05 05 19 00-0146	EA		1/2" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor.....	25.99	
			For >10 To 50, Deduct	-1.22	
			For >50 To 100, Deduct	-2.48	
			For >100, Deduct	-4.95	
05 05 19 00-0147	EA		5/8" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor.....	29.34	
			For >10 To 50, Deduct	-1.34	
			For >50 To 100, Deduct	-2.74	
			For >100, Deduct	-5.48	
05 05 19 00-0148	EA		3/4" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor.....	34.90	
			For >10 To 50, Deduct	-1.52	
			For >50 To 100, Deduct	-3.15	
			For >100, Deduct	-6.31	
05 05 19 00-0149			304/18-8 Stainless Steel, Multi-Set Drop-In Anchors (05 05 19 00-0142)		
			Note: Excludes bolt, nut and washer.		

05 Metals**05 05 Common Work Results for Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0150	EA	1/4" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	22.53	
		For >10 To 50, Deduct	-0.85	
		For >50 To 100, Deduct	-1.83	
		For >100, Deduct	-3.67	
05 05 19 00-0151	EA	3/8" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	30.65	
		For >10 To 50, Deduct	-1.03	
		For >50 To 100, Deduct	-2.32	
		For >100, Deduct	-4.63	
05 05 19 00-0152	EA	1/2" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	38.55	
		For >10 To 50, Deduct	-1.22	
		For >50 To 100, Deduct	-2.79	
		For >100, Deduct	-5.58	
05 05 19 00-0153	EA	5/8" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	49.53	
		For >10 To 50, Deduct	-1.34	
		For >50 To 100, Deduct	-3.24	
		For >100, Deduct	-6.49	
05 05 19 00-0154	EA	3/4" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	69.60	
		For >10 To 50, Deduct	-1.52	
		For >50 To 100, Deduct	-4.02	
		For >100, Deduct	-8.04	
05 05 19 00-0155		Single Bolt Expansion Anchors (05 05 19 00-0002)		
		Note: Excludes bolt, nut and washer.		
05 05 19 00-0156	EA	1/4" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	12.81	
		For >10 To 50, Deduct	-0.61	
		For >50 To 100, Deduct	-1.23	
		For >100, Deduct	-2.47	
05 05 19 00-0157	EA	5/16" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	13.66	
		For >10 To 50, Deduct	-0.64	
		For >50 To 100, Deduct	-1.30	
		For >100, Deduct	-2.60	
05 05 19 00-0158	EA	3/8" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	15.44	
		For >10 To 50, Deduct	-0.72	
		For >50 To 100, Deduct	-1.47	
		For >100, Deduct	-2.94	
05 05 19 00-0159	EA	1/2" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	22.45	
		For >10 To 50, Deduct	-1.03	
		For >50 To 100, Deduct	-2.10	
		For >100, Deduct	-4.21	
05 05 19 00-0160	EA	5/8" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	30.58	
		For >10 To 50, Deduct	-1.27	
		For >50 To 100, Deduct	-2.67	
		For >100, Deduct	-5.34	
05 05 19 00-0161	EA	3/4" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	36.82	
		For >10 To 50, Deduct	-1.51	
		For >50 To 100, Deduct	-3.19	
		For >100, Deduct	-6.38	
05 05 19 00-0162		Concrete Lag Shield Anchors (05 05 19 00-0002)		
		Note: Excludes lag bolt and washer.		
05 05 19 00-0163	EA	1/4" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	12.88	
		For >10 To 50, Deduct	-0.61	
		For >50 To 100, Deduct	-1.23	
		For >100, Deduct	-2.47	
05 05 19 00-0164	EA	5/16" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	15.32	
		For >10 To 50, Deduct	-0.72	
		For >50 To 100, Deduct	-1.47	
		For >100, Deduct	-2.94	
05 05 19 00-0165	EA	3/8" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	15.89	
		For >10 To 50, Deduct	-0.72	
		For >50 To 100, Deduct	-1.48	
		For >100, Deduct	-2.96	
05 05 19 00-0166	EA	1/2" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	22.44	
		For >10 To 50, Deduct	-1.03	
		For >50 To 100, Deduct	-2.10	
		For >100, Deduct	-4.21	
05 05 19 00-0167	EA	5/8" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	29.70	
		For >10 To 50, Deduct	-1.27	
		For >50 To 100, Deduct	-2.65	
		For >100, Deduct	-5.30	
05 05 19 00-0168	EA	3/4" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	33.63	
		For >10 To 50, Deduct	-1.51	
		For >50 To 100, Deduct	-3.11	
		For >100, Deduct	-6.22	
05 05 19 00-0169		Chemical And Adhesive Anchors (05 05 19 00-0001)		
05 05 19 00-0170		Chemically Adhered Anchor Rods (05 05 19 00-0169)		
		Note: Includes drilling hole, injected adhesive or pre-placed adhesive cartridge, nut and washer. Zinc coated carbon steel.		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0171	EA		1/4" x 1-9/16" Long Chemically Adhered Anchor Rod	16.01	
			For >10 To 50, Deduct	-0.67	
			For >50 To 100, Deduct	-1.40	
			For >100, Deduct	-2.81	
05 05 19 00-0172	EA		5/16" x 2-3/8" Long Chemically Adhered Anchor Rod	18.42	
			For >10 To 50, Deduct	-0.73	
			For >50 To 100, Deduct	-1.56	
			For >100, Deduct	-3.11	
05 05 19 00-0173	EA		3/8" x 2-3/4" Long Chemically Adhered Anchor Rod	22.88	
			For >10 To 50, Deduct	-0.91	
			For >50 To 100, Deduct	-1.94	
			For >100, Deduct	-3.88	
05 05 19 00-0174	EA		1/2" x 3-11/16" Long Chemically Adhered Anchor Rod	26.68	
			For >10 To 50, Deduct	-1.03	
			For >50 To 100, Deduct	-2.21	
			For >100, Deduct	-4.42	
05 05 19 00-0175	EA		1/2" x 5-1/2" Long Chemically Adhered Anchor Rod	28.07	
			For >10 To 50, Deduct	-1.03	
			For >50 To 100, Deduct	-2.24	
			For >100, Deduct	-4.49	
05 05 19 00-0176	EA		5/8" x 7" Long Chemically Adhered Anchor Rod.....	34.74	
			For >10 To 50, Deduct	-1.27	
			For >50 To 100, Deduct	-2.77	
			For >100, Deduct	-5.55	
05 05 19 00-0177	EA		3/4" x 9-1/2" Long Chemically Adhered Anchor Rod	44.69	
			For >10 To 50, Deduct	-1.51	
			For >50 To 100, Deduct	-3.39	
			For >100, Deduct	-6.77	
05 05 19 00-0178	EA		7/8" x 10" Long Chemically Adhered Anchor Rod.....	52.47	
			For >10 To 50, Deduct	-1.64	
			For >50 To 100, Deduct	-3.77	
			For >100, Deduct	-7.53	
05 05 19 00-0179	EA		1" x 11-3/4" Long Chemically Adhered Anchor Rod	71.36	
			For >10 To 50, Deduct	-2.12	
			For >50 To 100, Deduct	-4.97	
			For >100, Deduct	-9.94	
05 05 19 00-0180	EA		1-1/4" x 14" Long Chemically Adhered Anchor Rod	101.28	
			For >10 To 50, Deduct	-2.68	
			For >50 To 100, Deduct	-6.55	
			For >100, Deduct	-13.10	
05 05 19 00-0181			Chemical Adhesives For Bolts, Dowels Or Threaded Rod (05 05 19 00-0169)		
			Note: Injected or drop in cartridge. Sizes listed are for the diameter of the bolt, dowel or rod to be anchored.		
			Includes drilling. Excludes bolt, dowel or rod.		
05 05 19 00-0182	EA		1/4" Chemical Adhesive For Bolt Or Threaded Rod	13.71	
			For >10 To 50, Deduct	-0.67	
			For >50 To 100, Deduct	-1.35	
			For >100, Deduct	-2.69	
05 05 19 00-0183	EA		5/16" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	15.01	
			For >10 To 50, Deduct	-0.73	
			For >50 To 100, Deduct	-1.47	
			For >100, Deduct	-2.94	
05 05 19 00-0184	EA		3/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	18.79	
			For >10 To 50, Deduct	-0.91	
			For >50 To 100, Deduct	-1.84	
			For >100, Deduct	-3.68	
05 05 19 00-0185	EA		1/2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	21.32	
			For >10 To 50, Deduct	-1.03	
			For >50 To 100, Deduct	-2.08	
			For >100, Deduct	-4.15	
05 05 19 00-0186	EA		5/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	27.26	
			For >10 To 50, Deduct	-1.27	
			For >50 To 100, Deduct	-2.59	
			For >100, Deduct	-5.17	
05 05 19 00-0187	EA		3/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	33.48	
			For >10 To 50, Deduct	-1.51	
			For >50 To 100, Deduct	-3.11	
			For >100, Deduct	-6.21	
05 05 19 00-0188	EA		7/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	37.05	
			For >10 To 50, Deduct	-1.64	
			For >50 To 100, Deduct	-3.38	
			For >100, Deduct	-6.76	
05 05 19 00-0189	EA		1" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	48.95	
			For >10 To 50, Deduct	-2.12	
			For >50 To 100, Deduct	-4.41	
			For >100, Deduct	-8.82	
05 05 19 00-0190	EA		1-1/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	55.98	
			For >10 To 50, Deduct	-2.40	
			For >50 To 100, Deduct	-5.00	
			For >100, Deduct	-10.00	
05 05 19 00-0191	EA		1-1/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod	63.92	
			For >10 To 50, Deduct	-2.68	
			For >50 To 100, Deduct	-5.61	
			For >100, Deduct	-11.23	

05 Metals**05 05 Common Work Results for Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0192	EA		1-3/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	68.94	
			For >10 To 50, Deduct	-2.80	
			For >50 To 100, Deduct	-5.92	
			For >100, Deduct	-11.84	
05 05 19 00-0193	EA		1-1/2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	75.71	
			For >10 To 50, Deduct	-2.92	
			For >50 To 100, Deduct	-6.27	
			For >100, Deduct	-12.55	
05 05 19 00-0194	EA		1-3/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	89.21	
			For >10 To 50, Deduct	-3.16	
			For >50 To 100, Deduct	-6.98	
			For >100, Deduct	-13.95	
05 05 19 00-0195	EA		2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	117.60	
			For >10 To 50, Deduct	-3.29	
			For >50 To 100, Deduct	-7.87	
			For >100, Deduct	-15.74	
05 05 19 00-0196			Grout Concrete Anchor Bolt Or Threaded Rod (05 05 19 00-0169)	4.56	
05 05 19 00-0197	EA		Grout Concrete Anchor Bolt or Threaded Rod.....	4.56	
			For >10 To 50, Deduct	-0.22	
			For >50 To 100, Deduct	-0.44	
			For >100, Deduct	-0.88	
05 05 19 00-0198			Other Concrete And Masonry Anchors (05 05 19 00-0001)		
05 05 19 00-0199			Tapcon Masonry Screws (05 05 19 00-0198)		
			Note: Includes drilling. Countersunk or hex head.		
05 05 19 00-0200	EA		3/16" x 1-1/4" Tapcon Masonry Screw.....	12.43	
			For >10 To 50, Deduct	-0.61	
			For >50 To 100, Deduct	-1.22	
			For >100, Deduct	-2.45	
05 05 19 00-0201	EA		3/16" x 2-1/4" Tapcon Masonry Screw.....	12.50	
			For >10 To 50, Deduct	-0.61	
			For >50 To 100, Deduct	-1.23	
			For >100, Deduct	-2.45	
05 05 19 00-0202	EA		3/16" x 3-1/4" Tapcon Masonry Screw.....	12.65	
			For >10 To 50, Deduct	-0.61	
			For >50 To 100, Deduct	-1.23	
			For >100, Deduct	-2.46	
05 05 19 00-0203	EA		1/4" x 1-1/4" Tapcon Masonry Screw.....	12.51	
			For >10 To 50, Deduct	-0.61	
			For >50 To 100, Deduct	-1.23	
			For >100, Deduct	-2.45	
05 05 19 00-0204	EA		1/4" x 2-1/4" Tapcon Masonry Screw.....	12.59	
			For >10 To 50, Deduct	-0.61	
			For >50 To 100, Deduct	-1.23	
			For >100, Deduct	-2.46	
05 05 19 00-0205	EA		1/4" x 3-1/4" Tapcon Masonry Screw.....	12.77	
			For >10 To 50, Deduct	-0.61	
			For >50 To 100, Deduct	-1.23	
			For >100, Deduct	-2.46	
05 05 19 00-0206			Large Diameter, Self-Threading Concrete Fasteners (05 05 19 00-0198)		
			Note: Includes drilling. Zinc plated.		
05 05 19 00-0207	EA		3/8" x 1-3/4", Large Diameter, Self-Threading Concrete Fastener.....	13.46	
			For >10 To 50, Deduct	-0.61	
			For >50 To 100, Deduct	-1.25	
			For >100, Deduct	-2.50	
05 05 19 00-0208	EA		3/8" x 2-1/2", Large Diameter, Self-Threading Concrete Fastener.....	13.93	
			For >10 To 50, Deduct	-0.61	
			For >50 To 100, Deduct	-1.26	
			For >100, Deduct	-2.52	
05 05 19 00-0209	EA		3/8" x 3", Large Diameter, Self-Threading Concrete Fastener.....	14.06	
			For >10 To 50, Deduct	-0.61	
			For >50 To 100, Deduct	-1.26	
			For >100, Deduct	-2.53	
05 05 19 00-0210	EA		3/8" x 4", Large Diameter, Self-Threading Concrete Fastener.....	14.28	
			For >10 To 50, Deduct	-0.61	
			For >50 To 100, Deduct	-1.27	
			For >100, Deduct	-2.54	
05 05 19 00-0211	EA		3/8" x 5", Large Diameter, Self-Threading Concrete Fastener.....	14.47	
			For >10 To 50, Deduct	-0.61	
			For >50 To 100, Deduct	-1.27	
			For >100, Deduct	-2.55	
05 05 19 00-0212	EA		1/2" x 3", Large Diameter, Self-Threading Concrete Fastener.....	14.88	
			For >10 To 50, Deduct	-0.61	
			For >50 To 100, Deduct	-1.28	
			For >100, Deduct	-2.57	
05 05 19 00-0213	EA		1/2" x 4", Large Diameter, Self-Threading Concrete Fastener.....	15.38	
			For >10 To 50, Deduct	-0.61	
			For >50 To 100, Deduct	-1.30	
			For >100, Deduct	-2.59	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0214	EA		1/2" x 5", Large Diameter, Self-Threading Concrete Fastener.....	15.84	
			For >10 To 50, Deduct	-0.61	
			For >50 To 100, Deduct	-1.31	
			For >100, Deduct	-2.62	
05 05 19 00-0215	EA		1/2" x 6", Large Diameter, Self-Threading Concrete Fastener.....	17.12	
			For >10 To 50, Deduct	-0.61	
			For >50 To 100, Deduct	-1.34	
			For >100, Deduct	-2.68	
05 05 19 00-0216	EA		5/8" x 3", Large Diameter, Self-Threading Concrete Fastener.....	17.28	
			For >10 To 50, Deduct	-0.61	
			For >50 To 100, Deduct	-1.34	
			For >100, Deduct	-2.69	
05 05 19 00-0217	EA		5/8" x 4", Large Diameter, Self-Threading Concrete Fastener.....	18.06	
			For >10 To 50, Deduct	-0.61	
			For >50 To 100, Deduct	-1.36	
			For >100, Deduct	-2.73	
05 05 19 00-0218	EA		5/8" x 5", Large Diameter, Self-Threading Concrete Fastener.....	18.87	
			For >10 To 50, Deduct	-0.61	
			For >50 To 100, Deduct	-1.38	
			For >100, Deduct	-2.77	
05 05 19 00-0219	EA		5/8" x 6", Large Diameter, Self-Threading Concrete Fastener.....	19.39	
			For >10 To 50, Deduct	-0.61	
			For >50 To 100, Deduct	-1.40	
			For >100, Deduct	-2.80	
05 05 19 00-0220	EA		3/4" x 4-1/2", Large Diameter, Self-Threading Concrete Fastener.....	19.16	
			For >10 To 50, Deduct	-0.61	
			For >50 To 100, Deduct	-1.39	
			For >100, Deduct	-2.78	
05 05 19 00-0221	EA		3/4" x 5-1/2", Large Diameter, Self-Threading Concrete Fastener.....	19.91	
			For >10 To 50, Deduct	-0.61	
			For >50 To 100, Deduct	-1.41	
			For >100, Deduct	-2.82	
05 05 19 00-0222	EA		3/4" x 6-1/4", Large Diameter, Self-Threading Concrete Fastener.....	21.65	
			For >10 To 50, Deduct	-0.61	
			For >50 To 100, Deduct	-1.45	
			For >100, Deduct	-2.91	
05 05 19 00-0223			Pin Bolt Drives (05 05 19 00-0198)		
			Note: Includes drilling. Zinc plated.		
05 05 19 00-0224	EA		1/4" x 1" Pin Bolt Drive.....	7.70	
			For >10 To 50, Deduct	-0.37	
			For >50 To 100, Deduct	-0.74	
			For >100, Deduct	-1.48	
05 05 19 00-0225	EA		1/4" x 1-1/4" Pin Bolt Drive.....	7.70	
			For >10 To 50, Deduct	-0.37	
			For >50 To 100, Deduct	-0.74	
			For >100, Deduct	-1.48	
05 05 19 00-0226	EA		1/4" x 1-1/2" Pin Bolt Drive.....	7.75	
			For >10 To 50, Deduct	-0.37	
			For >50 To 100, Deduct	-0.74	
			For >100, Deduct	-1.48	
05 05 19 00-0227	EA		1/4" x 2" Pin Bolt Drive.....	7.76	
			For >10 To 50, Deduct	-0.37	
			For >50 To 100, Deduct	-0.74	
			For >100, Deduct	-1.48	
05 05 19 00-0228			Powder Actuated, Shot-In Place Anchors (05 05 19 00-0198)		
05 05 19 00-0229	EA		0.15" Diameter x 1/2" Length, Stud Powder Actuated Anchor	1.89	
			For >10 To 50, Deduct	-0.08	
			For >50 To 100, Deduct	-0.17	
			For >100, Deduct	-0.34	
05 05 19 00-0230	EA		0.15" Diameter x 3/4" Length, Stud Powder Actuated Anchor	1.99	
			For >10 To 50, Deduct	-0.09	
			For >50 To 100, Deduct	-0.18	
			For >100, Deduct	-0.35	
05 05 19 00-0231	EA		0.15"/0.18" Diameter x 1" Length, Stud Powder Actuated Anchor	2.16	
			For >10 To 50, Deduct	-0.09	
			For >50 To 100, Deduct	-0.19	
			For >100, Deduct	-0.38	
05 05 19 00-0232	EA		0.15"/0.18" Diameter x 1-1/4" Length, Stud Powder Actuated Anchor.....	2.37	
			For >10 To 50, Deduct	-0.10	
			For >50 To 100, Deduct	-0.21	
			For >100, Deduct	-0.41	
05 05 19 00-0233	EA		0.15"/0.18" Diameter x 1-7/8" Length, Stud Powder Actuated Anchor.....	2.48	
			For >10 To 50, Deduct	-0.10	
			For >50 To 100, Deduct	-0.21	
			For >100, Deduct	-0.42	
05 05 19 00-0234			Powder Actuated, Shot-In Place Anchors With Exposed Thread (05 05 19 00-0198)		

05 Metals**05 05 Common Work Results for Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0235 EA 0.145" Diameter x 1" Long Shank, 3/4" Thread Length, 1/4" - 20 Treaded Stud Powder Actuated Anchor.....	2.19	
For >10 To 50, Deduct	-0.09	
For >50 To 100, Deduct	-0.18	
For >100, Deduct	-0.36	
05 05 19 00-0236 EA 0.205" Diameter x 1-1/6" Long Shank, 1" Thread Length, 3/8" - 16 Treaded Stud Powder Actuated Anchor.....	2.93	
For >10 To 50, Deduct	-0.10	
For >50 To 100, Deduct	-0.23	
For >100, Deduct	-0.46	

05 05 23 Metal Fastenings (05 05)**05 05 23 00-0001****Hex Bolts** (05 05 23)

Note: For owner furnished materials or where requested by the owner. Excludes drilling through wood, steel, concrete, brick or block. See CSI section 02 41 19 13-0215 for drilling into concrete, 02 41 19 13-0225 for drilling into brick or block, 02 41 19 13-0235 for drilling into wood or plastic, 05 05 23 00-1567 for drilling through steel.

05 05 23 00-0002**A307B Heavy Hex Bolts** (05 05 23 00-0001)

Note: Includes A307B heavy hex nut and two structural washers.

05 05 23 00-0003**Plain Finish A307B Heavy Hex Bolts** (05 05 23 00-0002)

05 05 23 00-0004 EA 1/2" Diameter x 1-1/2" Long, Plain Finish A307B Heavy Hex Bolt	13.40	1.36
For >10 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-1.19	
For >100, Deduct	-2.38	
05 05 23 00-0005 EA 1/2" Diameter x 3" Long, Plain Finish A307B Heavy Hex Bolt	14.56	1.36
For >10 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-1.22	
For >100, Deduct	-2.44	
05 05 23 00-0006 EA 5/8" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt	14.59	1.36
For >10 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-1.22	
For >100, Deduct	-2.44	
05 05 23 00-0007 EA 5/8" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	17.27	1.56
For >10 To 50, Deduct	-0.65	
For >50 To 100, Deduct	-1.41	
For >100, Deduct	-2.82	
05 05 23 00-0008 EA 3/4" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt	16.53	1.36
For >10 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-1.27	
For >100, Deduct	-2.54	
05 05 23 00-0009 EA 3/4" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	19.68	1.56
For >10 To 50, Deduct	-0.65	
For >50 To 100, Deduct	-1.47	
For >100, Deduct	-2.94	
05 05 23 00-0010 EA 3/4" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt	24.34	1.63
For >10 To 50, Deduct	-0.68	
For >50 To 100, Deduct	-1.63	
For >100, Deduct	-3.26	
05 05 23 00-0011 EA 3/4" Diameter x 8" Long, Plain Finish A307B Heavy Hex Bolt	26.09	1.71
For >10 To 50, Deduct	-0.72	
For >50 To 100, Deduct	-1.73	
For >100, Deduct	-3.45	
05 05 23 00-0012 EA 7/8" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt	19.56	1.48
For >10 To 50, Deduct	-0.62	
For >50 To 100, Deduct	-1.42	
For >100, Deduct	-2.83	
05 05 23 00-0013 EA 7/8" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	23.32	1.63
For >10 To 50, Deduct	-0.68	
For >50 To 100, Deduct	-1.60	
For >100, Deduct	-3.20	
05 05 23 00-0014 EA 1" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	27.12	1.71
For >10 To 50, Deduct	-0.72	
For >50 To 100, Deduct	-1.75	
For >100, Deduct	-3.50	
05 05 23 00-0015 EA 1" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt	37.68	1.80
For >10 To 50, Deduct	-0.75	
For >50 To 100, Deduct	-2.07	
For >100, Deduct	-4.14	
05 05 23 00-0016 EA 1-1/4" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt	43.99	2.04
For >10 To 50, Deduct	-0.85	
For >50 To 100, Deduct	-2.37	
For >100, Deduct	-4.75	
05 05 23 00-0017 EA 1-1/4" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt	49.34	2.19
For >10 To 50, Deduct	-0.91	
For >50 To 100, Deduct	-2.60	
For >100, Deduct	-5.20	
05 05 23 00-0018 Galvanized A307B Heavy Hex Bolts (05 05 23 00-0002)		
05 05 23 00-0019 EA 1/2" Diameter x 1-1/2" Long, Galvanized A307B Heavy Hex Bolt	13.97	1.36
For >10 To 50, Deduct	-0.57	
For >50 To 100, Deduct	-1.20	
For >100, Deduct	-2.41	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0020	EA		1/2" Diameter x 3" Long, Galvanized A307B Heavy Hex Bolt.....	14.94	1.36
			For >10 To 50, Deduct	-0.57	
			For >50 To 100, Deduct	-1.23	
			For >100, Deduct	-2.46	
05 05 23 00-0021	EA		5/8" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt.....	15.99	1.36
			For >10 To 50, Deduct	-0.57	
			For >50 To 100, Deduct	-1.25	
			For >100, Deduct	-2.51	
05 05 23 00-0022	EA		5/8" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	18.67	1.56
			For >10 To 50, Deduct	-0.65	
			For >50 To 100, Deduct	-1.44	
			For >100, Deduct	-2.89	
05 05 23 00-0023	EA		3/4" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt.....	18.12	1.36
			For >10 To 50, Deduct	-0.57	
			For >50 To 100, Deduct	-1.31	
			For >100, Deduct	-2.62	
05 05 23 00-0024	EA		3/4" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	22.61	1.56
			For >10 To 50, Deduct	-0.65	
			For >50 To 100, Deduct	-1.54	
			For >100, Deduct	-3.08	
05 05 23 00-0025	EA		3/4" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt.....	29.40	1.63
			For >10 To 50, Deduct	-0.68	
			For >50 To 100, Deduct	-1.76	
			For >100, Deduct	-3.51	
05 05 23 00-0026	EA		3/4" Diameter x 8" Long, Galvanized A307B Heavy Hex Bolt.....	34.28	1.71
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.93	
			For >100, Deduct	-3.86	
05 05 23 00-0027	EA		7/8" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt.....	23.72	1.48
			For >10 To 50, Deduct	-0.62	
			For >50 To 100, Deduct	-1.52	
			For >100, Deduct	-3.04	
05 05 23 00-0028	EA		7/8" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	28.01	1.63
			For >10 To 50, Deduct	-0.68	
			For >50 To 100, Deduct	-1.72	
			For >100, Deduct	-3.44	
05 05 23 00-0029	EA		1" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	33.17	1.71
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.90	
			For >100, Deduct	-3.81	
05 05 23 00-0030	EA		1" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt.....	48.65	1.80
			For >10 To 50, Deduct	-0.75	
			For >50 To 100, Deduct	-2.34	
			For >100, Deduct	-4.69	
05 05 23 00-0031	EA		1-1/4" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt.....	48.90	2.04
			For >10 To 50, Deduct	-0.85	
			For >50 To 100, Deduct	-2.50	
			For >100, Deduct	-4.99	
05 05 23 00-0032	EA		1-1/4" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt.....	60.70	2.19
			For >10 To 50, Deduct	-0.91	
			For >50 To 100, Deduct	-2.88	
			For >100, Deduct	-5.77	
05 05 23 00-0033	A325 High Strength Structural Bolts (05 05 23 00-0001)				
05 05 23 00-0034	Plain Finish A325 High Strength Structural Bolts (05 05 23 00-0033)				
	Note: Includes A325 heavy hex nut and structural washer.				
05 05 23 00-0035	EA		1/2" Diameter x 1-1/2" Long, Plain Finish A325 High Strength Structural Bolt.....	13.13	1.36
			For >10 To 50, Deduct	-0.57	
			For >50 To 100, Deduct	-1.18	
			For >100, Deduct	-2.37	
05 05 23 00-0036	EA		1/2" Diameter x 3" Long, Plain Finish A325 High Strength Structural Bolt.....	13.39	1.36
			For >10 To 50, Deduct	-0.57	
			For >50 To 100, Deduct	-1.19	
			For >100, Deduct	-2.38	
05 05 23 00-0037	EA		5/8" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	14.21	1.36
			For >10 To 50, Deduct	-0.57	
			For >50 To 100, Deduct	-1.21	
			For >100, Deduct	-2.42	
05 05 23 00-0038	EA		5/8" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	17.29	1.56
			For >10 To 50, Deduct	-0.65	
			For >50 To 100, Deduct	-1.41	
			For >100, Deduct	-2.82	
05 05 23 00-0039	EA		5/8" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	19.82	1.63
			For >10 To 50, Deduct	-0.68	
			For >50 To 100, Deduct	-1.52	
			For >100, Deduct	-3.03	
05 05 23 00-0040	EA		3/4" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	15.34	1.36
			For >10 To 50, Deduct	-0.57	
			For >50 To 100, Deduct	-1.24	
			For >100, Deduct	-2.48	
05 05 23 00-0041	EA		3/4" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	18.50	1.56
			For >10 To 50, Deduct	-0.65	
			For >50 To 100, Deduct	-1.44	
			For >100, Deduct	-2.88	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0042	EA		3/4" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	20.89	1.63
			For >10 To 50, Deduct	-0.68	
			For >50 To 100, Deduct	-1.54	
			For >100, Deduct	-3.09	
05 05 23 00-0043	EA		3/4" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	25.36	1.71
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.71	
			For >100, Deduct	-3.41	
05 05 23 00-0044	EA		7/8" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	17.69	1.48
			For >10 To 50, Deduct	-0.62	
			For >50 To 100, Deduct	-1.37	
			For >100, Deduct	-2.74	
05 05 23 00-0045	EA		7/8" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	21.33	1.63
			For >10 To 50, Deduct	-0.68	
			For >50 To 100, Deduct	-1.55	
			For >100, Deduct	-3.10	
05 05 23 00-0046	EA		7/8" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	24.18	1.71
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.68	
			For >100, Deduct	-3.36	
05 05 23 00-0047	EA		7/8" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	26.15	1.80
			For >10 To 50, Deduct	-0.75	
			For >50 To 100, Deduct	-1.78	
			For >100, Deduct	-3.56	
05 05 23 00-0048	EA		1" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	19.44	1.54
			For >10 To 50, Deduct	-0.64	
			For >50 To 100, Deduct	-1.45	
			For >100, Deduct	-2.90	
05 05 23 00-0049	EA		1" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	23.22	1.71
			For >10 To 50, Deduct	-0.72	
			For >50 To 100, Deduct	-1.65	
			For >100, Deduct	-3.31	
05 05 23 00-0050	EA		1" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	26.69	1.80
			For >10 To 50, Deduct	-0.75	
			For >50 To 100, Deduct	-1.80	
			For >100, Deduct	-3.59	
05 05 23 00-0051	EA		1" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	33.73	1.92
			For >10 To 50, Deduct	-0.80	
			For >50 To 100, Deduct	-2.04	
			For >100, Deduct	-4.09	
05 05 23 00-0052	EA		1-1/4" Diameter x 3" Long, Plain Finish A325 High Strength Structural Bolt.....	32.31	1.92
			For >10 To 50, Deduct	-0.80	
			For >50 To 100, Deduct	-2.01	
			For >100, Deduct	-4.02	
05 05 23 00-0053	EA		1-1/4" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	36.45	2.04
			For >10 To 50, Deduct	-0.85	
			For >50 To 100, Deduct	-2.18	
			For >100, Deduct	-4.37	
05 05 23 00-0054	EA		1-1/4" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	42.56	2.19
			For >10 To 50, Deduct	-0.91	
			For >50 To 100, Deduct	-2.43	
			For >100, Deduct	-4.86	
05 05 23 00-0055	EA		1-1/4" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	49.69	2.33
			For >10 To 50, Deduct	-0.97	
			For >50 To 100, Deduct	-2.70	
			For >100, Deduct	-5.40	
05 05 23 00-0056			Galvanized A325 High Strength Structural Bolts (05 05 23 00-0033)		
			Note: Includes A325 heavy hex nut and structural washer.		
05 05 23 00-0057	EA		1/2" Diameter x 1-1/2" Long, Galvanized A325 High Strength Structural Bolt	13.64	1.36
			For >10 To 50, Deduct	-0.57	
			For >50 To 100, Deduct	-1.20	
			For >100, Deduct	-2.39	
05 05 23 00-0058	EA		1/2" Diameter x 3" Long, Galvanized A325 High Strength Structural Bolt.....	13.82	1.36
			For >10 To 50, Deduct	-0.57	
			For >50 To 100, Deduct	-1.20	
			For >100, Deduct	-2.40	
05 05 23 00-0059	EA		5/8" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	15.28	1.36
			For >10 To 50, Deduct	-0.57	
			For >50 To 100, Deduct	-1.24	
			For >100, Deduct	-2.47	
05 05 23 00-0060	EA		5/8" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	18.06	1.56
			For >10 To 50, Deduct	-0.65	
			For >50 To 100, Deduct	-1.43	
			For >100, Deduct	-2.86	
05 05 23 00-0061	EA		5/8" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	19.09	1.63
			For >10 To 50, Deduct	-0.68	
			For >50 To 100, Deduct	-1.50	
			For >100, Deduct	-3.00	
05 05 23 00-0062	EA		3/4" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	15.83	1.36
			For >10 To 50, Deduct	-0.57	
			For >50 To 100, Deduct	-1.25	
			For >100, Deduct	-2.50	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0063	EA	3/4" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt	.....	19.12	1.56
		For >10 To 50, Deduct	.....	-0.65	
		For >50 To 100, Deduct	.....	-1.45	
		For >100, Deduct	.....	-2.91	
05 05 23 00-0064	EA	3/4" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt	.....	21.87	1.63
		For >10 To 50, Deduct	.....	-0.68	
		For >50 To 100, Deduct	.....	-1.57	
		For >100, Deduct	.....	-3.14	
05 05 23 00-0065	EA	3/4" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt	.....	27.66	1.71
		For >10 To 50, Deduct	.....	-0.72	
		For >50 To 100, Deduct	.....	-1.76	
		For >100, Deduct	.....	-3.53	
05 05 23 00-0066	EA	7/8" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt	.....	20.66	1.48
		For >10 To 50, Deduct	.....	-0.62	
		For >50 To 100, Deduct	.....	-1.44	
		For >100, Deduct	.....	-2.89	
05 05 23 00-0067	EA	7/8" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt	.....	23.09	1.63
		For >10 To 50, Deduct	.....	-0.68	
		For >50 To 100, Deduct	.....	-1.60	
		For >100, Deduct	.....	-3.19	
05 05 23 00-0068	EA	7/8" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt	.....	26.31	1.71
		For >10 To 50, Deduct	.....	-0.72	
		For >50 To 100, Deduct	.....	-1.73	
		For >100, Deduct	.....	-3.46	
05 05 23 00-0069	EA	7/8" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt	.....	32.53	1.80
		For >10 To 50, Deduct	.....	-0.75	
		For >50 To 100, Deduct	.....	-1.94	
		For >100, Deduct	.....	-3.88	
05 05 23 00-0070	EA	1" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt	.....	21.75	1.54
		For >10 To 50, Deduct	.....	-0.64	
		For >50 To 100, Deduct	.....	-1.51	
		For >100, Deduct	.....	-3.02	
05 05 23 00-0071	EA	1" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt	.....	28.52	1.71
		For >10 To 50, Deduct	.....	-0.72	
		For >50 To 100, Deduct	.....	-1.79	
		For >100, Deduct	.....	-3.57	
05 05 23 00-0072	EA	1" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt	.....	31.12	1.80
		For >10 To 50, Deduct	.....	-0.75	
		For >50 To 100, Deduct	.....	-1.91	
		For >100, Deduct	.....	-3.81	
05 05 23 00-0073	EA	1" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt	.....	39.20	1.92
		For >10 To 50, Deduct	.....	-0.80	
		For >50 To 100, Deduct	.....	-2.18	
		For >100, Deduct	.....	-4.36	
05 05 23 00-0074	EA	1-1/4" Diameter x 3" Long, Galvanized A325 High Strength Structural Bolt	.....	38.97	1.92
		For >10 To 50, Deduct	.....	-0.80	
		For >50 To 100, Deduct	.....	-2.18	
		For >100, Deduct	.....	-4.35	
05 05 23 00-0075	EA	1-1/4" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt	.....	41.55	2.04
		For >10 To 50, Deduct	.....	-0.85	
		For >50 To 100, Deduct	.....	-2.31	
		For >100, Deduct	.....	-4.62	
05 05 23 00-0076	EA	1-1/4" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt	.....	48.39	2.19
		For >10 To 50, Deduct	.....	-0.91	
		For >50 To 100, Deduct	.....	-2.57	
		For >100, Deduct	.....	-5.15	
05 05 23 00-0077	EA	1-1/4" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt	.....	55.78	2.33
		For >10 To 50, Deduct	.....	-0.97	
		For >50 To 100, Deduct	.....	-2.85	
		For >100, Deduct	.....	-5.70	
05 05 23 00-0078		A490 High Strength Structural Bolts (05 05 23 00-0001)			
		Note: Includes A490 heavy hex nut and two structural washers.			
05 05 23 00-0079		Plain Finish A490 High Strength Structural Bolts (05 05 23 00-0078)			
05 05 23 00-0080	EA	5/8" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt	.....	14.61	1.36
		For >10 To 50, Deduct	.....	-0.57	
		For >50 To 100, Deduct	.....	-1.22	
		For >100, Deduct	.....	-2.44	
05 05 23 00-0081	EA	5/8" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt	.....	20.06	1.56
		For >10 To 50, Deduct	.....	-0.65	
		For >50 To 100, Deduct	.....	-1.48	
		For >100, Deduct	.....	-2.96	
05 05 23 00-0082	EA	5/8" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt	.....	21.42	1.63
		For >10 To 50, Deduct	.....	-0.68	
		For >50 To 100, Deduct	.....	-1.56	
		For >100, Deduct	.....	-3.11	
05 05 23 00-0083	EA	3/4" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt	.....	16.18	1.36
		For >10 To 50, Deduct	.....	-0.57	
		For >50 To 100, Deduct	.....	-1.26	
		For >100, Deduct	.....	-2.52	
05 05 23 00-0084	EA	3/4" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt	.....	19.46	1.56
		For >10 To 50, Deduct	.....	-0.65	
		For >50 To 100, Deduct	.....	-1.46	
		For >100, Deduct	.....	-2.92	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0085 EA 3/4" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	22.43	1.63
For >10 To 50, Deduct	-0.68	
For >50 To 100, Deduct	-1.58	
For >100, Deduct	-3.16	
05 05 23 00-0086 EA 3/4" Diameter x 8" Long, Plain Finish A490 High Strength Structural Bolt.....	28.36	1.71
For >10 To 50, Deduct	-0.72	
For >50 To 100, Deduct	-1.78	
For >100, Deduct	-3.56	
05 05 23 00-0087 EA 7/8" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	18.66	1.48
For >10 To 50, Deduct	-0.62	
For >50 To 100, Deduct	-1.39	
For >100, Deduct	-2.79	
05 05 23 00-0088 EA 7/8" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	21.64	1.63
For >10 To 50, Deduct	-0.68	
For >50 To 100, Deduct	-1.56	
For >100, Deduct	-3.12	
05 05 23 00-0089 EA 7/8" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	30.44	1.71
For >10 To 50, Deduct	-0.72	
For >50 To 100, Deduct	-1.83	
For >100, Deduct	-3.67	
05 05 23 00-0090 EA 1" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	21.70	1.54
For >10 To 50, Deduct	-0.64	
For >50 To 100, Deduct	-1.51	
For >100, Deduct	-3.01	
05 05 23 00-0091 EA 1" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	25.76	1.71
For >10 To 50, Deduct	-0.72	
For >50 To 100, Deduct	-1.72	
For >100, Deduct	-3.43	
05 05 23 00-0092 EA 1" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	29.42	1.80
For >10 To 50, Deduct	-0.75	
For >50 To 100, Deduct	-1.86	
For >100, Deduct	-3.73	
05 05 23 00-0093 EA 1-1/4" Diameter x 3" Long, Plain Finish A490 High Strength Structural Bolt.....	36.34	1.92
For >10 To 50, Deduct	-0.80	
For >50 To 100, Deduct	-2.11	
For >100, Deduct	-4.22	
05 05 23 00-0094 EA 1-1/4" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	46.08	2.04
For >10 To 50, Deduct	-0.85	
For >50 To 100, Deduct	-2.43	
For >100, Deduct	-4.85	
05 05 23 00-0095 EA 1-1/4" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	48.55	2.19
For >10 To 50, Deduct	-0.91	
For >50 To 100, Deduct	-2.58	
For >100, Deduct	-5.16	
05 05 23 00-0096 EA 1-1/4" Diameter x 8" Long, Plain Finish A490 High Strength Structural Bolt.....	50.72	2.33
For >10 To 50, Deduct	-0.97	
For >50 To 100, Deduct	-2.72	
For >100, Deduct	-5.45	
05 05 23 00-0097 Hex Head Bolts (05 05 23 00-0001)		
05 05 23 00-0098 Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0097)		
05 05 23 00-0099 1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0098)		
05 05 23 00-0100 EA 1/4" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.70	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0101 EA 1/4" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.72	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0102 EA 1/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.79	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0103 EA 1/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.82	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0104 EA 1/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.07	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.96	
For >500, Deduct	-2.35	
05 05 23 00-0105 EA 1/4" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.10	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.96	
For >500, Deduct	-2.35	
05 05 23 00-0106 EA 1/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.19	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.96	
For >500, Deduct	-2.35	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0107	EA		1/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.42	
			For >100 To 250, Deduct	-1.61	
			For >250 To 500, Deduct	-2.01	
			For >500, Deduct	-2.41	
05 05 23 00-0108	EA		1/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.46	
			For >100 To 250, Deduct	-1.61	
			For >250 To 500, Deduct	-2.01	
			For >500, Deduct	-2.41	
05 05 23 00-0109	EA		1/4" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.61	
			For >100 To 250, Deduct	-1.61	
			For >250 To 500, Deduct	-2.01	
			For >500, Deduct	-2.41	
05 05 23 00-0110	EA		1/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.93	
			For >100 To 250, Deduct	-1.65	
			For >250 To 500, Deduct	-2.06	
			For >500, Deduct	-2.48	
05 05 23 00-0111	EA		1/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.05	
			For >100 To 250, Deduct	-1.65	
			For >250 To 500, Deduct	-2.06	
			For >500, Deduct	-2.48	
05 05 23 00-0112	EA		1/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.21	
			For >100 To 250, Deduct	-1.65	
			For >250 To 500, Deduct	-2.06	
			For >500, Deduct	-2.48	
05 05 23 00-0113	EA		1/4" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.77	
			For >100 To 250, Deduct	-1.69	
			For >250 To 500, Deduct	-2.12	
			For >500, Deduct	-2.54	
05 05 23 00-0114	EA		1/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.01	
			For >100 To 250, Deduct	-1.69	
			For >250 To 500, Deduct	-2.12	
			For >500, Deduct	-2.54	
05 05 23 00-0115	EA		1/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.07	
			For >100 To 250, Deduct	-1.69	
			For >250 To 500, Deduct	-2.12	
			For >500, Deduct	-2.54	
05 05 23 00-0116			5/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05		
			23 00-0098)		
05 05 23 00-0117	EA		5/16" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.76	
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-1.90	
			For >500, Deduct	-2.28	
05 05 23 00-0118	EA		5/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.78	
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-1.90	
			For >500, Deduct	-2.28	
05 05 23 00-0119	EA		5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.83	
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-1.90	
			For >500, Deduct	-2.28	
05 05 23 00-0120	EA		5/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.88	
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-1.90	
			For >500, Deduct	-2.28	
05 05 23 00-0121	EA		5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.14	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.96	
			For >500, Deduct	-2.35	
05 05 23 00-0122	EA		5/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.24	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.96	
			For >500, Deduct	-2.35	
05 05 23 00-0123	EA		5/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.28	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.96	
			For >500, Deduct	-2.35	
05 05 23 00-0124	EA		5/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.60	
			For >100 To 250, Deduct	-1.61	
			For >250 To 500, Deduct	-2.01	
			For >500, Deduct	-2.41	
05 05 23 00-0125	EA		5/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.75	
			For >100 To 250, Deduct	-1.61	
			For >250 To 500, Deduct	-2.01	
			For >500, Deduct	-2.41	
05 05 23 00-0126	EA		5/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.80	
			For >100 To 250, Deduct	-1.61	
			For >250 To 500, Deduct	-2.01	
			For >500, Deduct	-2.41	
05 05 23 00-0127	EA		5/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.06	
			For >100 To 250, Deduct	-1.65	
			For >250 To 500, Deduct	-2.06	
			For >500, Deduct	-2.48	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0128 EA 5/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.12	
For>100 To 250, Deduct	-1.65	
For>250 To 500, Deduct	-2.06	
For>500, Deduct	-2.48	
05 05 23 00-0129 EA 5/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.67	
For>100 To 250, Deduct	-1.65	
For>250 To 500, Deduct	-2.06	
For>500, Deduct	-2.48	
05 05 23 00-0130 EA 5/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.17	
For>100 To 250, Deduct	-1.69	
For>250 To 500, Deduct	-2.12	
For>500, Deduct	-2.54	
05 05 23 00-0131 EA 5/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.41	
For>100 To 250, Deduct	-1.69	
For>250 To 500, Deduct	-2.12	
For>500, Deduct	-2.54	
05 05 23 00-0132 EA 5/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.64	
For>100 To 250, Deduct	-1.69	
For>250 To 500, Deduct	-2.12	
For>500, Deduct	-2.54	
05 05 23 00-0133 3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0098)		
05 05 23 00-0134 EA 3/8" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.82	
For>100 To 250, Deduct	-1.52	
For>250 To 500, Deduct	-1.90	
For>500, Deduct	-2.28	
05 05 23 00-0135 EA 3/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.85	
For>100 To 250, Deduct	-1.52	
For>250 To 500, Deduct	-1.90	
For>500, Deduct	-2.28	
05 05 23 00-0136 EA 3/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.92	
For>100 To 250, Deduct	-1.52	
For>250 To 500, Deduct	-1.90	
For>500, Deduct	-2.28	
05 05 23 00-0137 EA 3/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.99	
For>100 To 250, Deduct	-1.52	
For>250 To 500, Deduct	-1.90	
For>500, Deduct	-2.28	
05 05 23 00-0138 EA 3/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.27	
For>100 To 250, Deduct	-1.56	
For>250 To 500, Deduct	-1.96	
For>500, Deduct	-2.35	
05 05 23 00-0139 EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.40	
For>100 To 250, Deduct	-1.56	
For>250 To 500, Deduct	-1.96	
For>500, Deduct	-2.35	
05 05 23 00-0140 EA 3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.52	
For>100 To 250, Deduct	-1.56	
For>250 To 500, Deduct	-1.96	
For>500, Deduct	-2.35	
05 05 23 00-0141 EA 3/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.87	
For>100 To 250, Deduct	-1.61	
For>250 To 500, Deduct	-2.01	
For>500, Deduct	-2.41	
05 05 23 00-0142 EA 3/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.04	
For>100 To 250, Deduct	-1.61	
For>250 To 500, Deduct	-2.01	
For>500, Deduct	-2.41	
05 05 23 00-0143 EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.13	
For>100 To 250, Deduct	-1.61	
For>250 To 500, Deduct	-2.01	
For>500, Deduct	-2.41	
05 05 23 00-0144 EA 3/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.51	
For>100 To 250, Deduct	-1.65	
For>250 To 500, Deduct	-2.06	
For>500, Deduct	-2.48	
05 05 23 00-0145 EA 3/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.61	
For>100 To 250, Deduct	-1.65	
For>250 To 500, Deduct	-2.06	
For>500, Deduct	-2.48	
05 05 23 00-0146 EA 3/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.67	
For>100 To 250, Deduct	-1.65	
For>250 To 500, Deduct	-2.06	
For>500, Deduct	-2.48	
05 05 23 00-0147 EA 3/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.94	
For>100 To 250, Deduct	-1.69	
For>250 To 500, Deduct	-2.12	
For>500, Deduct	-2.54	
05 05 23 00-0148 EA 3/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.04	
For>100 To 250, Deduct	-1.69	
For>250 To 500, Deduct	-2.12	
For>500, Deduct	-2.54	



		Metals	05
		Common Work Results for Metals	05 05
		Metal Fastenings	05 05 23

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MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
05 05 23 00-0149	EA	3/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.19		
		For >100 To 250, Deduct		-1.69	
		For >250 To 500, Deduct		-2.12	
		For >500, Deduct		-2.54	
05 05 23 00-0150 7/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05					
23 00-0098)					
05 05 23 00-0151	EA	7/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.22		
		For >100 To 250, Deduct		-1.74	
		For >250 To 500, Deduct		-2.17	
		For >500, Deduct		-2.61	
05 05 23 00-0152	EA	7/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.32		
		For >100 To 250, Deduct		-1.74	
		For >250 To 500, Deduct		-2.17	
		For >500, Deduct		-2.61	
05 05 23 00-0153	EA	7/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.33		
		For >100 To 250, Deduct		-1.74	
		For >250 To 500, Deduct		-2.17	
		For >500, Deduct		-2.61	
05 05 23 00-0154	EA	7/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.69		
		For >100 To 250, Deduct		-1.78	
		For >250 To 500, Deduct		-2.23	
		For >500, Deduct		-2.67	
05 05 23 00-0155	EA	7/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.84		
		For >100 To 250, Deduct		-1.78	
		For >250 To 500, Deduct		-2.23	
		For >500, Deduct		-2.67	
05 05 23 00-0156	EA	7/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.97		
		For >100 To 250, Deduct		-1.78	
		For >250 To 500, Deduct		-2.23	
		For >500, Deduct		-2.67	
05 05 23 00-0157	EA	7/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.53		
		For >100 To 250, Deduct		-1.82	
		For >250 To 500, Deduct		-2.28	
		For >500, Deduct		-2.74	
05 05 23 00-0158	EA	7/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.63		
		For >100 To 250, Deduct		-1.82	
		For >250 To 500, Deduct		-2.28	
		For >500, Deduct		-2.74	
05 05 23 00-0159	EA	7/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.82		
		For >100 To 250, Deduct		-1.82	
		For >250 To 500, Deduct		-2.28	
		For >500, Deduct		-2.74	
05 05 23 00-0160	EA	7/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.35		
		For >100 To 250, Deduct		-1.87	
		For >250 To 500, Deduct		-2.34	
		For >500, Deduct		-2.80	
05 05 23 00-0161	EA	7/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.44		
		For >100 To 250, Deduct		-1.87	
		For >250 To 500, Deduct		-2.34	
		For >500, Deduct		-2.80	
05 05 23 00-0162	EA	7/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.68		
		For >100 To 250, Deduct		-1.87	
		For >250 To 500, Deduct		-2.34	
		For >500, Deduct		-2.80	
05 05 23 00-0163	EA	7/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.00		
		For >100 To 250, Deduct		-1.91	
		For >250 To 500, Deduct		-2.39	
		For >500, Deduct		-2.87	
05 05 23 00-0164	EA	7/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.21		
		For >100 To 250, Deduct		-1.91	
		For >250 To 500, Deduct		-2.39	
		For >500, Deduct		-2.87	
05 05 23 00-0165	EA	7/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.64		
		For >100 To 250, Deduct		-1.91	
		For >250 To 500, Deduct		-2.39	
		For >500, Deduct		-2.87	
05 05 23 00-0166 1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05					
23 00-0098)					
05 05 23 00-0167	EA	1/2" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.13		
		For >100 To 250, Deduct		-1.74	
		For >250 To 500, Deduct		-2.17	
		For >500, Deduct		-2.61	
05 05 23 00-0168	EA	1/2" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.26		
		For >100 To 250, Deduct		-1.74	
		For >250 To 500, Deduct		-2.17	
		For >500, Deduct		-2.61	
05 05 23 00-0169	EA	1/2" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.38		
		For >100 To 250, Deduct		-1.74	
		For >250 To 500, Deduct		-2.17	
		For >500, Deduct		-2.61	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0170 EA 1/2" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.73	
For>100 To 250, Deduct	-1.78	
For>250 To 500, Deduct	-2.23	
For>500, Deduct	-2.67	
05 05 23 00-0171 EA 1/2" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.86	
For>100 To 250, Deduct	-1.78	
For>250 To 500, Deduct	-2.23	
For>500, Deduct	-2.67	
05 05 23 00-0172 EA 1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.99	
For>100 To 250, Deduct	-1.78	
For>250 To 500, Deduct	-2.23	
For>500, Deduct	-2.67	
05 05 23 00-0173 EA 1/2" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.38	
For>100 To 250, Deduct	-1.82	
For>250 To 500, Deduct	-2.28	
For>500, Deduct	-2.74	
05 05 23 00-0174 EA 1/2" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.53	
For>100 To 250, Deduct	-1.82	
For>250 To 500, Deduct	-2.28	
For>500, Deduct	-2.74	
05 05 23 00-0175 EA 1/2" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.80	
For>100 To 250, Deduct	-1.82	
For>250 To 500, Deduct	-2.28	
For>500, Deduct	-2.74	
05 05 23 00-0176 EA 1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.05	
For>100 To 250, Deduct	-1.87	
For>250 To 500, Deduct	-2.34	
For>500, Deduct	-2.80	
05 05 23 00-0177 EA 1/2" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.08	
For>100 To 250, Deduct	-1.87	
For>250 To 500, Deduct	-2.34	
For>500, Deduct	-2.80	
05 05 23 00-0178 EA 1/2" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.30	
For>100 To 250, Deduct	-1.87	
For>250 To 500, Deduct	-2.34	
For>500, Deduct	-2.80	
05 05 23 00-0179 EA 1/2" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.73	
For>100 To 250, Deduct	-1.91	
For>250 To 500, Deduct	-2.39	
For>500, Deduct	-2.87	
05 05 23 00-0180 EA 1/2" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.86	
For>100 To 250, Deduct	-1.91	
For>250 To 500, Deduct	-2.39	
For>500, Deduct	-2.87	
05 05 23 00-0181 EA 1/2" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.25	
For>100 To 250, Deduct	-1.91	
For>250 To 500, Deduct	-2.39	
For>500, Deduct	-2.87	
05 05 23 00-0182 EA 1/2" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.66	
For>100 To 250, Deduct	-1.96	
For>250 To 500, Deduct	-2.45	
For>500, Deduct	-2.93	
05 05 23 00-0183 EA 1/2" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.80	
For>100 To 250, Deduct	-1.96	
For>250 To 500, Deduct	-2.45	
For>500, Deduct	-2.93	
05 05 23 00-0184 EA 1/2" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.34	
For>100 To 250, Deduct	-1.96	
For>250 To 500, Deduct	-2.45	
For>500, Deduct	-2.93	
05 05 23 00-0185 EA 1/2" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.49	
For>100 To 250, Deduct	-1.96	
For>250 To 500, Deduct	-2.45	
For>500, Deduct	-2.93	
05 05 23 00-0186 9/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0098)		
05 05 23 00-0187 EA 9/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.26	
For>100 To 250, Deduct	-1.74	
For>250 To 500, Deduct	-2.17	
For>500, Deduct	-2.61	
05 05 23 00-0188 EA 9/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.43	
For>100 To 250, Deduct	-1.74	
For>250 To 500, Deduct	-2.17	
For>500, Deduct	-2.61	
05 05 23 00-0189 EA 9/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.47	
For>100 To 250, Deduct	-1.74	
For>250 To 500, Deduct	-2.17	
For>500, Deduct	-2.61	
05 05 23 00-0190 EA 9/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.25	
For>100 To 250, Deduct	-1.78	
For>250 To 500, Deduct	-2.23	
For>500, Deduct	-2.67	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0191	EA		9/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.47	
			For >100 To 250, Deduct	-1.78	
			For >250 To 500, Deduct	-2.23	
			For >500, Deduct	-2.67	
05 05 23 00-0192	EA		9/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.55	
			For >100 To 250, Deduct	-1.78	
			For >250 To 500, Deduct	-2.23	
			For >500, Deduct	-2.67	
05 05 23 00-0193	EA		9/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.80	
			For >100 To 250, Deduct	-1.82	
			For >250 To 500, Deduct	-2.28	
			For >500, Deduct	-2.74	
05 05 23 00-0194	EA		9/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.85	
			For >100 To 250, Deduct	-1.82	
			For >250 To 500, Deduct	-2.28	
			For >500, Deduct	-2.74	
05 05 23 00-0195	EA		9/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.04	
			For >100 To 250, Deduct	-1.82	
			For >250 To 500, Deduct	-2.28	
			For >500, Deduct	-2.74	
05 05 23 00-0196	EA		9/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.30	
			For >100 To 250, Deduct	-1.87	
			For >250 To 500, Deduct	-2.34	
			For >500, Deduct	-2.80	
05 05 23 00-0197	EA		9/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.36	
			For >100 To 250, Deduct	-1.87	
			For >250 To 500, Deduct	-2.34	
			For >500, Deduct	-2.80	
05 05 23 00-0198	EA		9/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.53	
			For >100 To 250, Deduct	-1.87	
			For >250 To 500, Deduct	-2.34	
			For >500, Deduct	-2.80	
05 05 23 00-0199	EA		9/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.93	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.39	
			For >500, Deduct	-2.87	
05 05 23 00-0200	EA		9/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.13	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.39	
			For >500, Deduct	-2.87	
05 05 23 00-0201	EA		9/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.33	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.39	
			For >500, Deduct	-2.87	
05 05 23 00-0202	EA		9/16" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.73	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.93	
05 05 23 00-0203	EA		9/16" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.97	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.93	
05 05 23 00-0204	EA		9/16" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.12	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.93	
05 05 23 00-0205	EA		9/16" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.37	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.93	
05 05 23 00-0206			5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0098)		
05 05 23 00-0207	EA		5/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.73	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.93	
05 05 23 00-0208	EA		5/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.84	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.93	
05 05 23 00-0209	EA		5/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.99	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.93	
05 05 23 00-0210	EA		5/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.40	
			For >100 To 250, Deduct	-2.00	
			For >250 To 500, Deduct	-2.50	
			For >500, Deduct	-3.00	
05 05 23 00-0211	EA		5/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.63	
			For >100 To 250, Deduct	-2.00	
			For >250 To 500, Deduct	-2.50	
			For >500, Deduct	-3.00	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0212 EA 5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.90	
For>100 To 250, Deduct	-2.00	
For>250 To 500, Deduct	-2.50	
For>500, Deduct	-3.00	
05 05 23 00-0213 EA 5/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.47	
For>100 To 250, Deduct	-2.04	
For>250 To 500, Deduct	-2.55	
For>500, Deduct	-3.06	
05 05 23 00-0214 EA 5/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.90	
For>100 To 250, Deduct	-2.04	
For>250 To 500, Deduct	-2.55	
For>500, Deduct	-3.06	
05 05 23 00-0215 EA 5/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.23	
For>100 To 250, Deduct	-2.04	
For>250 To 500, Deduct	-2.55	
For>500, Deduct	-3.06	
05 05 23 00-0216 EA 5/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.57	
For>100 To 250, Deduct	-2.08	
For>250 To 500, Deduct	-2.61	
For>500, Deduct	-3.13	
05 05 23 00-0217 EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.62	
For>100 To 250, Deduct	-2.08	
For>250 To 500, Deduct	-2.61	
For>500, Deduct	-3.13	
05 05 23 00-0218 EA 5/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.18	
For>100 To 250, Deduct	-2.08	
For>250 To 500, Deduct	-2.61	
For>500, Deduct	-3.13	
05 05 23 00-0219 EA 5/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.72	
For>100 To 250, Deduct	-2.13	
For>250 To 500, Deduct	-2.66	
For>500, Deduct	-3.19	
05 05 23 00-0220 EA 5/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.16	
For>100 To 250, Deduct	-2.13	
For>250 To 500, Deduct	-2.66	
For>500, Deduct	-3.19	
05 05 23 00-0221 EA 5/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.68	
For>100 To 250, Deduct	-2.13	
For>250 To 500, Deduct	-2.66	
For>500, Deduct	-3.19	
05 05 23 00-0222 EA 5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.47	
For>100 To 250, Deduct	-2.17	
For>250 To 500, Deduct	-2.72	
For>500, Deduct	-3.26	
05 05 23 00-0223 EA 5/8" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.98	
For>100 To 250, Deduct	-2.17	
For>250 To 500, Deduct	-2.72	
For>500, Deduct	-3.26	
05 05 23 00-0224 EA 5/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.50	
For>100 To 250, Deduct	-2.17	
For>250 To 500, Deduct	-2.72	
For>500, Deduct	-3.26	
05 05 23 00-0225 EA 5/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.90	
For>100 To 250, Deduct	-2.17	
For>250 To 500, Deduct	-2.72	
For>500, Deduct	-3.26	
05 05 23 00-0226 3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05		
23 00-0098)		
05 05 23 00-0227 EA 3/4" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.11	
For>100 To 250, Deduct	-1.96	
For>250 To 500, Deduct	-2.45	
For>500, Deduct	-2.93	
05 05 23 00-0228 EA 3/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.34	
For>100 To 250, Deduct	-1.96	
For>250 To 500, Deduct	-2.45	
For>500, Deduct	-2.93	
05 05 23 00-0229 EA 3/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.55	
For>100 To 250, Deduct	-1.96	
For>250 To 500, Deduct	-2.45	
For>500, Deduct	-2.93	
05 05 23 00-0230 EA 3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.03	
For>100 To 250, Deduct	-2.00	
For>250 To 500, Deduct	-2.50	
For>500, Deduct	-3.00	
05 05 23 00-0231 EA 3/4" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.36	
For>100 To 250, Deduct	-2.00	
For>250 To 500, Deduct	-2.50	
For>500, Deduct	-3.00	
05 05 23 00-0232 EA 3/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.64	
For>100 To 250, Deduct	-2.00	
For>250 To 500, Deduct	-2.50	
For>500, Deduct	-3.00	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0233	EA	3/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	13.18		
		For >100 To 250, Deduct	-2.04		
		For >250 To 500, Deduct	-2.55		
		For >500, Deduct	-3.06		
05 05 23 00-0234	EA	3/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	13.59		
		For >100 To 250, Deduct	-2.04		
		For >250 To 500, Deduct	-2.55		
		For >500, Deduct	-3.06		
05 05 23 00-0235	EA	3/4" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	13.90		
		For >100 To 250, Deduct	-2.04		
		For >250 To 500, Deduct	-2.55		
		For >500, Deduct	-3.06		
05 05 23 00-0236	EA	3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	14.77		
		For >100 To 250, Deduct	-2.08		
		For >250 To 500, Deduct	-2.61		
		For >500, Deduct	-3.13		
05 05 23 00-0237	EA	3/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	15.04		
		For >100 To 250, Deduct	-2.08		
		For >250 To 500, Deduct	-2.61		
		For >500, Deduct	-3.13		
05 05 23 00-0238	EA	3/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	15.54		
		For >100 To 250, Deduct	-2.08		
		For >250 To 500, Deduct	-2.61		
		For >500, Deduct	-3.13		
05 05 23 00-0239	EA	3/4" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	15.79		
		For >100 To 250, Deduct	-2.13		
		For >250 To 500, Deduct	-2.66		
		For >500, Deduct	-3.19		
05 05 23 00-0240	EA	3/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	16.96		
		For >100 To 250, Deduct	-2.13		
		For >250 To 500, Deduct	-2.66		
		For >500, Deduct	-3.19		
05 05 23 00-0241	EA	3/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	17.50		
		For >100 To 250, Deduct	-2.13		
		For >250 To 500, Deduct	-2.66		
		For >500, Deduct	-3.19		
05 05 23 00-0242	EA	3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	18.43		
		For >100 To 250, Deduct	-2.17		
		For >250 To 500, Deduct	-2.72		
		For >500, Deduct	-3.26		
05 05 23 00-0243	EA	3/4" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	18.97		
		For >100 To 250, Deduct	-2.17		
		For >250 To 500, Deduct	-2.72		
		For >500, Deduct	-3.26		
05 05 23 00-0244	EA	3/4" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	19.69		
		For >100 To 250, Deduct	-2.17		
		For >250 To 500, Deduct	-2.72		
		For >500, Deduct	-3.26		
05 05 23 00-0245	EA	3/4" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	20.39		
		For >100 To 250, Deduct	-2.17		
		For >250 To 500, Deduct	-2.72		
		For >500, Deduct	-3.26		
05 05 23 00-0246		7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05			
		23 00-0098)			
05 05 23 00-0247	EA	7/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	13.41		
		For >100 To 250, Deduct	-2.17		
		For >250 To 500, Deduct	-2.72		
		For >500, Deduct	-3.26		
05 05 23 00-0248	EA	7/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	13.60		
		For >100 To 250, Deduct	-2.17		
		For >250 To 500, Deduct	-2.72		
		For >500, Deduct	-3.26		
05 05 23 00-0249	EA	7/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	13.69		
		For >100 To 250, Deduct	-2.17		
		For >250 To 500, Deduct	-2.72		
		For >500, Deduct	-3.26		
05 05 23 00-0250	EA	7/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	14.18		
		For >100 To 250, Deduct	-2.22		
		For >250 To 500, Deduct	-2.77		
		For >500, Deduct	-3.32		
05 05 23 00-0251	EA	7/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	14.71		
		For >100 To 250, Deduct	-2.22		
		For >250 To 500, Deduct	-2.77		
		For >500, Deduct	-3.32		
05 05 23 00-0252	EA	7/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	15.33		
		For >100 To 250, Deduct	-2.22		
		For >250 To 500, Deduct	-2.77		
		For >500, Deduct	-3.32		
05 05 23 00-0253	EA	7/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt	16.07		
		For >100 To 250, Deduct	-2.26		
		For >250 To 500, Deduct	-2.83		
		For >500, Deduct	-3.39		

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0254 EA 7/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.97	
For>100 To 250, Deduct	-2.26	
For>250 To 500, Deduct	-2.83	
For>500, Deduct	-3.39	
05 05 23 00-0255 EA 7/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.47	
For>100 To 250, Deduct	-2.26	
For>250 To 500, Deduct	-2.83	
For>500, Deduct	-3.39	
05 05 23 00-0256 EA 7/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.07	
For>100 To 250, Deduct	-2.30	
For>250 To 500, Deduct	-2.88	
For>500, Deduct	-3.45	
05 05 23 00-0257 EA 7/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.37	
For>100 To 250, Deduct	-2.30	
For>250 To 500, Deduct	-2.88	
For>500, Deduct	-3.45	
05 05 23 00-0258 EA 7/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.08	
For>100 To 250, Deduct	-2.30	
For>250 To 500, Deduct	-2.88	
For>500, Deduct	-3.45	
05 05 23 00-0259 EA 7/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.01	
For>100 To 250, Deduct	-2.35	
For>250 To 500, Deduct	-2.93	
For>500, Deduct	-3.52	
05 05 23 00-0260 EA 7/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.73	
For>100 To 250, Deduct	-2.35	
For>250 To 500, Deduct	-2.93	
For>500, Deduct	-3.52	
05 05 23 00-0261 EA 7/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.44	
For>100 To 250, Deduct	-2.35	
For>250 To 500, Deduct	-2.93	
For>500, Deduct	-3.52	
05 05 23 00-0262 EA 7/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.33	
For>100 To 250, Deduct	-2.39	
For>250 To 500, Deduct	-2.99	
For>500, Deduct	-3.59	
05 05 23 00-0263 EA 7/8" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.09	
For>100 To 250, Deduct	-2.39	
For>250 To 500, Deduct	-2.99	
For>500, Deduct	-3.59	
05 05 23 00-0264 EA 7/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.78	
For>100 To 250, Deduct	-2.39	
For>250 To 500, Deduct	-2.99	
For>500, Deduct	-3.59	
05 05 23 00-0265 EA 7/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.52	
For>100 To 250, Deduct	-2.39	
For>250 To 500, Deduct	-2.99	
For>500, Deduct	-3.59	
05 05 23 00-0266 1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0098).....	14.28	
05 05 23 00-0267 EA 1" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.28	
For>100 To 250, Deduct	-2.17	
For>250 To 500, Deduct	-2.72	
For>500, Deduct	-3.26	
05 05 23 00-0268 EA 1" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.58	
For>100 To 250, Deduct	-2.17	
For>250 To 500, Deduct	-2.72	
For>500, Deduct	-3.26	
05 05 23 00-0269 EA 1" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.62	
For>100 To 250, Deduct	-2.22	
For>250 To 500, Deduct	-2.77	
For>500, Deduct	-3.32	
05 05 23 00-0270 EA 1" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.65	
For>100 To 250, Deduct	-2.22	
For>250 To 500, Deduct	-2.77	
For>500, Deduct	-3.32	
05 05 23 00-0271 EA 1" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.59	
For>100 To 250, Deduct	-2.22	
For>250 To 500, Deduct	-2.77	
For>500, Deduct	-3.32	
05 05 23 00-0272 EA 1" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.77	
For>100 To 250, Deduct	-2.26	
For>250 To 500, Deduct	-2.83	
For>500, Deduct	-3.39	
05 05 23 00-0273 EA 1" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.67	
For>100 To 250, Deduct	-2.26	
For>250 To 500, Deduct	-2.83	
For>500, Deduct	-3.39	
05 05 23 00-0274 EA 1" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.61	
For>100 To 250, Deduct	-2.26	
For>250 To 500, Deduct	-2.83	
For>500, Deduct	-3.39	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0275	EA	1"	Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.29	
			For >100 To 250, Deduct	-2.30	
			For >250 To 500, Deduct	-2.88	
			For >500, Deduct	-3.45	
05 05 23 00-0276	EA	1"	Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.73	
			For >100 To 250, Deduct	-2.30	
			For >250 To 500, Deduct	-2.88	
			For >500, Deduct	-3.45	
05 05 23 00-0277	EA	1"	Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.52	
			For >100 To 250, Deduct	-2.30	
			For >250 To 500, Deduct	-2.88	
			For >500, Deduct	-3.45	
05 05 23 00-0278	EA	1"	Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.52	
			For >100 To 250, Deduct	-2.35	
			For >250 To 500, Deduct	-2.93	
			For >500, Deduct	-3.52	
05 05 23 00-0279	EA	1"	Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.30	
			For >100 To 250, Deduct	-2.35	
			For >250 To 500, Deduct	-2.93	
			For >500, Deduct	-3.52	
05 05 23 00-0280	EA	1"	Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	26.11	
			For >100 To 250, Deduct	-2.35	
			For >250 To 500, Deduct	-2.93	
			For >500, Deduct	-3.52	
05 05 23 00-0281	EA	1"	Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	26.97	
			For >100 To 250, Deduct	-2.39	
			For >250 To 500, Deduct	-2.99	
			For >500, Deduct	-3.59	
05 05 23 00-0282	EA	1"	Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.89	
			For >100 To 250, Deduct	-2.39	
			For >250 To 500, Deduct	-2.99	
			For >500, Deduct	-3.59	
05 05 23 00-0283	EA	1"	Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	28.69	
			For >100 To 250, Deduct	-2.39	
			For >250 To 500, Deduct	-2.99	
			For >500, Deduct	-3.59	
05 05 23 00-0284	EA	1"	Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	29.51	
			For >100 To 250, Deduct	-2.39	
			For >250 To 500, Deduct	-2.99	
			For >500, Deduct	-3.59	
05 05 23 00-0285			Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0097)		
05 05 23 00-0286			1/4" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)		
05 05 23 00-0287	EA	1/4"	Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.74	
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-1.90	
			For >500, Deduct	-2.28	
05 05 23 00-0288	EA	1/4"	Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.79	
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-1.90	
			For >500, Deduct	-2.28	
05 05 23 00-0289	EA	1/4"	Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.82	
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-1.90	
			For >500, Deduct	-2.28	
05 05 23 00-0290	EA	1/4"	Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.89	
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-1.90	
			For >500, Deduct	-2.28	
05 05 23 00-0291	EA	1/4"	Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.17	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.96	
			For >500, Deduct	-2.35	
05 05 23 00-0292	EA	1/4"	Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.29	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.96	
			For >500, Deduct	-2.35	
05 05 23 00-0293	EA	1/4"	Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.42	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.96	
			For >500, Deduct	-2.35	
05 05 23 00-0294	EA	1/4"	Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.75	
			For >100 To 250, Deduct	-1.61	
			For >250 To 500, Deduct	-2.01	
			For >500, Deduct	-2.41	
05 05 23 00-0295	EA	1/4"	Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.91	
			For >100 To 250, Deduct	-1.61	
			For >250 To 500, Deduct	-2.01	
			For >500, Deduct	-2.41	
05 05 23 00-0296	EA	1/4"	Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.03	
			For >100 To 250, Deduct	-1.61	
			For >250 To 500, Deduct	-2.01	
			For >500, Deduct	-2.41	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0297 EA 1/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.35	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.48	
05 05 23 00-0298 EA 1/4" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.46	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.48	
05 05 23 00-0299 EA 1/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.57	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.48	
05 05 23 00-0300 EA 1/4" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.92	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0301 EA 1/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.07	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0302 EA 1/4" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.22	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0303 5/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)		
05 05 23 00-0304 EA 5/16" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.82	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0305 EA 5/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.85	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0306 EA 5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.90	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0307 EA 5/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.00	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0308 EA 5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.28	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.96	
For >500, Deduct	-2.35	
05 05 23 00-0309 EA 5/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.39	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.96	
For >500, Deduct	-2.35	
05 05 23 00-0310 EA 5/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.60	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.96	
For >500, Deduct	-2.35	
05 05 23 00-0311 EA 5/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.92	
For >100 To 250, Deduct	-1.61	
For >250 To 500, Deduct	-2.01	
For >500, Deduct	-2.41	
05 05 23 00-0312 EA 5/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.09	
For >100 To 250, Deduct	-1.61	
For >250 To 500, Deduct	-2.01	
For >500, Deduct	-2.41	
05 05 23 00-0313 EA 5/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.24	
For >100 To 250, Deduct	-1.61	
For >250 To 500, Deduct	-2.01	
For >500, Deduct	-2.41	
05 05 23 00-0314 EA 5/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.75	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.48	
05 05 23 00-0315 EA 5/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.80	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.48	
05 05 23 00-0316 EA 5/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.00	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.48	
05 05 23 00-0317 EA 5/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.49	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0318	EA		5/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.76	
			For >100 To 250, Deduct	-1.69	
			For >250 To 500, Deduct	-2.12	
			For >500, Deduct	-2.54	
05 05 23 00-0319	EA		5/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.03	
			For >100 To 250, Deduct	-1.69	
			For >250 To 500, Deduct	-2.12	
			For >500, Deduct	-2.54	
05 05 23 00-0320			3/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)		
05 05 23 00-0321	EA		3/8" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.87	
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-1.90	
			For >500, Deduct	-2.28	
05 05 23 00-0322	EA		3/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.89	
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-1.90	
			For >500, Deduct	-2.28	
05 05 23 00-0323	EA		3/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.99	
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-1.90	
			For >500, Deduct	-2.28	
05 05 23 00-0324	EA		3/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.08	
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-1.90	
			For >500, Deduct	-2.28	
05 05 23 00-0325	EA		3/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.40	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.96	
			For >500, Deduct	-2.35	
05 05 23 00-0326	EA		3/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.52	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.96	
			For >500, Deduct	-2.35	
05 05 23 00-0327	EA		3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.70	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.96	
			For >500, Deduct	-2.35	
05 05 23 00-0328	EA		3/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.11	
			For >100 To 250, Deduct	-1.61	
			For >250 To 500, Deduct	-2.01	
			For >500, Deduct	-2.41	
05 05 23 00-0329	EA		3/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.54	
			For >100 To 250, Deduct	-1.61	
			For >250 To 500, Deduct	-2.01	
			For >500, Deduct	-2.41	
05 05 23 00-0330	EA		3/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.73	
			For >100 To 250, Deduct	-1.61	
			For >250 To 500, Deduct	-2.01	
			For >500, Deduct	-2.41	
05 05 23 00-0331	EA		3/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.19	
			For >100 To 250, Deduct	-1.65	
			For >250 To 500, Deduct	-2.06	
			For >500, Deduct	-2.48	
05 05 23 00-0332	EA		3/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.37	
			For >100 To 250, Deduct	-1.65	
			For >250 To 500, Deduct	-2.06	
			For >500, Deduct	-2.48	
05 05 23 00-0333	EA		3/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.69	
			For >100 To 250, Deduct	-1.65	
			For >250 To 500, Deduct	-2.06	
			For >500, Deduct	-2.48	
05 05 23 00-0334	EA		3/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.15	
			For >100 To 250, Deduct	-1.69	
			For >250 To 500, Deduct	-2.12	
			For >500, Deduct	-2.54	
05 05 23 00-0335	EA		3/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.57	
			For >100 To 250, Deduct	-1.69	
			For >250 To 500, Deduct	-2.12	
			For >500, Deduct	-2.54	
05 05 23 00-0336	EA		3/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.91	
			For >100 To 250, Deduct	-1.69	
			For >250 To 500, Deduct	-2.12	
			For >500, Deduct	-2.54	
05 05 23 00-0337			7/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)		
05 05 23 00-0338	EA		7/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.14	
			For >100 To 250, Deduct	-1.74	
			For >250 To 500, Deduct	-2.17	
			For >500, Deduct	-2.61	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0339 EA 7/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.23	
For >100 To 250, Deduct	-1.74	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.61	
05 05 23 00-0340 EA 7/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.45	
For >100 To 250, Deduct	-1.74	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.61	
05 05 23 00-0341 EA 7/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.83	
For >100 To 250, Deduct	-1.78	
For >250 To 500, Deduct	-2.23	
For >500, Deduct	-2.67	
05 05 23 00-0342 EA 7/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.98	
For >100 To 250, Deduct	-1.78	
For >250 To 500, Deduct	-2.23	
For >500, Deduct	-2.67	
05 05 23 00-0343 EA 7/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.13	
For >100 To 250, Deduct	-1.78	
For >250 To 500, Deduct	-2.23	
For >500, Deduct	-2.67	
05 05 23 00-0344 EA 7/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.54	
For >100 To 250, Deduct	-1.82	
For >250 To 500, Deduct	-2.28	
For >500, Deduct	-2.74	
05 05 23 00-0345 EA 7/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.38	
For >100 To 250, Deduct	-1.82	
For >250 To 500, Deduct	-2.28	
For >500, Deduct	-2.74	
05 05 23 00-0346 EA 7/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.75	
For >100 To 250, Deduct	-1.82	
For >250 To 500, Deduct	-2.28	
For >500, Deduct	-2.74	
05 05 23 00-0347 EA 7/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.09	
For >100 To 250, Deduct	-1.87	
For >250 To 500, Deduct	-2.34	
For >500, Deduct	-2.80	
05 05 23 00-0348 EA 7/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.26	
For >100 To 250, Deduct	-1.87	
For >250 To 500, Deduct	-2.34	
For >500, Deduct	-2.80	
05 05 23 00-0349 EA 7/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.44	
For >100 To 250, Deduct	-1.87	
For >250 To 500, Deduct	-2.34	
For >500, Deduct	-2.80	
05 05 23 00-0350 EA 7/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.90	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.39	
For >500, Deduct	-2.87	
05 05 23 00-0351 EA 7/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.15	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.39	
For >500, Deduct	-2.87	
05 05 23 00-0352 EA 7/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.39	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-2.39	
For >500, Deduct	-2.87	
05 05 23 00-0353 1/2" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)		
05 05 23 00-0354 EA 1/2" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.26	
For >100 To 250, Deduct	-1.74	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.61	
05 05 23 00-0355 EA 1/2" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.37	
For >100 To 250, Deduct	-1.74	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.61	
05 05 23 00-0356 EA 1/2" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.49	
For >100 To 250, Deduct	-1.74	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.61	
05 05 23 00-0357 EA 1/2" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.91	
For >100 To 250, Deduct	-1.78	
For >250 To 500, Deduct	-2.23	
For >500, Deduct	-2.67	
05 05 23 00-0358 EA 1/2" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.10	
For >100 To 250, Deduct	-1.78	
For >250 To 500, Deduct	-2.23	
For >500, Deduct	-2.67	
05 05 23 00-0359 EA 1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.30	
For >100 To 250, Deduct	-1.78	
For >250 To 500, Deduct	-2.23	
For >500, Deduct	-2.67	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0360	EA	1/2" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.70		
		For >100 To 250, Deduct	-1.82		
		For >250 To 500, Deduct	-2.28		
		For >500, Deduct	-2.74		
05 05 23 00-0361	EA	1/2" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.36		
		For >100 To 250, Deduct	-1.82		
		For >250 To 500, Deduct	-2.28		
		For >500, Deduct	-2.74		
05 05 23 00-0362	EA	1/2" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.40		
		For >100 To 250, Deduct	-1.82		
		For >250 To 500, Deduct	-2.28		
		For >500, Deduct	-2.74		
05 05 23 00-0363	EA	1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.07		
		For >100 To 250, Deduct	-1.87		
		For >250 To 500, Deduct	-2.34		
		For >500, Deduct	-2.80		
05 05 23 00-0364	EA	1/2" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.32		
		For >100 To 250, Deduct	-1.87		
		For >250 To 500, Deduct	-2.34		
		For >500, Deduct	-2.80		
05 05 23 00-0365	EA	1/2" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.98		
		For >100 To 250, Deduct	-1.87		
		For >250 To 500, Deduct	-2.34		
		For >500, Deduct	-2.80		
05 05 23 00-0366	EA	1/2" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.80		
		For >100 To 250, Deduct	-1.91		
		For >250 To 500, Deduct	-2.39		
		For >500, Deduct	-2.87		
05 05 23 00-0367	EA	1/2" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.17		
		For >100 To 250, Deduct	-1.91		
		For >250 To 500, Deduct	-2.39		
		For >500, Deduct	-2.87		
05 05 23 00-0368	EA	1/2" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.31		
		For >100 To 250, Deduct	-1.91		
		For >250 To 500, Deduct	-2.39		
		For >500, Deduct	-2.87		
05 05 23 00-0369	EA	1/2" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.21		
		For >100 To 250, Deduct	-1.96		
		For >250 To 500, Deduct	-2.45		
		For >500, Deduct	-2.93		
05 05 23 00-0370	EA	1/2" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	15.85		
		For >100 To 250, Deduct	-1.96		
		For >250 To 500, Deduct	-2.45		
		For >500, Deduct	-2.93		
05 05 23 00-0371	EA	1/2" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.77		
		For >100 To 250, Deduct	-1.96		
		For >250 To 500, Deduct	-2.45		
		For >500, Deduct	-2.93		
05 05 23 00-0372	EA	1/2" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.12		
		For >100 To 250, Deduct	-1.96		
		For >250 To 500, Deduct	-2.45		
		For >500, Deduct	-2.93		
05 05 23 00-0373		9/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)			
05 05 23 00-0374	EA	9/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.61		
		For >100 To 250, Deduct	-1.74		
		For >250 To 500, Deduct	-2.17		
		For >500, Deduct	-2.61		
05 05 23 00-0375	EA	9/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	9.83		
		For >100 To 250, Deduct	-1.74		
		For >250 To 500, Deduct	-2.17		
		For >500, Deduct	-2.61		
05 05 23 00-0376	EA	9/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.02		
		For >100 To 250, Deduct	-1.74		
		For >250 To 500, Deduct	-2.17		
		For >500, Deduct	-2.61		
05 05 23 00-0377	EA	9/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.44		
		For >100 To 250, Deduct	-1.78		
		For >250 To 500, Deduct	-2.23		
		For >500, Deduct	-2.67		
05 05 23 00-0378	EA	9/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.70		
		For >100 To 250, Deduct	-1.78		
		For >250 To 500, Deduct	-2.23		
		For >500, Deduct	-2.67		
05 05 23 00-0379	EA	9/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.00		
		For >100 To 250, Deduct	-1.78		
		For >250 To 500, Deduct	-2.23		
		For >500, Deduct	-2.67		
05 05 23 00-0380	EA	9/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.56		
		For >100 To 250, Deduct	-1.82		
		For >250 To 500, Deduct	-2.28		
		For >500, Deduct	-2.74		

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0381	EA	9/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.71	
		For >100 To 250, Deduct	-1.82	
		For >250 To 500, Deduct	-2.28	
		For >500, Deduct	-2.74	
05 05 23 00-0382	EA	9/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.01	
		For >100 To 250, Deduct	-1.82	
		For >250 To 500, Deduct	-2.28	
		For >500, Deduct	-2.74	
05 05 23 00-0383	EA	9/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.55	
		For >100 To 250, Deduct	-1.87	
		For >250 To 500, Deduct	-2.34	
		For >500, Deduct	-2.80	
05 05 23 00-0384	EA	9/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.87	
		For >100 To 250, Deduct	-1.87	
		For >250 To 500, Deduct	-2.34	
		For >500, Deduct	-2.80	
05 05 23 00-0385	EA	9/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	14.94	
		For >100 To 250, Deduct	-1.87	
		For >250 To 500, Deduct	-2.34	
		For >500, Deduct	-2.80	
05 05 23 00-0386	EA	9/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.46	
		For >100 To 250, Deduct	-1.91	
		For >250 To 500, Deduct	-2.39	
		For >500, Deduct	-2.87	
05 05 23 00-0387	EA	9/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	16.90	
		For >100 To 250, Deduct	-1.91	
		For >250 To 500, Deduct	-2.39	
		For >500, Deduct	-2.87	
05 05 23 00-0388	EA	9/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	17.63	
		For >100 To 250, Deduct	-1.91	
		For >250 To 500, Deduct	-2.39	
		For >500, Deduct	-2.87	
05 05 23 00-0389	EA	9/16" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	18.54	
		For >100 To 250, Deduct	-1.96	
		For >250 To 500, Deduct	-2.45	
		For >500, Deduct	-2.93	
05 05 23 00-0390	EA	9/16" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	18.80	
		For >100 To 250, Deduct	-1.96	
		For >250 To 500, Deduct	-2.45	
		For >500, Deduct	-2.93	
05 05 23 00-0391	EA	9/16" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.07	
		For >100 To 250, Deduct	-1.96	
		For >250 To 500, Deduct	-2.45	
		For >500, Deduct	-2.93	
05 05 23 00-0392	EA	9/16" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	19.73	
		For >100 To 250, Deduct	-1.96	
		For >250 To 500, Deduct	-2.45	
		For >500, Deduct	-2.93	
05 05 23 00-0393		5/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)		
05 05 23 00-0394	EA	5/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	10.93	
		For >100 To 250, Deduct	-1.96	
		For >250 To 500, Deduct	-2.45	
		For >500, Deduct	-2.93	
05 05 23 00-0395	EA	5/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.00	
		For >100 To 250, Deduct	-1.96	
		For >250 To 500, Deduct	-2.45	
		For >500, Deduct	-2.93	
05 05 23 00-0396	EA	5/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.06	
		For >100 To 250, Deduct	-1.96	
		For >250 To 500, Deduct	-2.45	
		For >500, Deduct	-2.93	
05 05 23 00-0397	EA	5/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.48	
		For >100 To 250, Deduct	-2.00	
		For >250 To 500, Deduct	-2.50	
		For >500, Deduct	-3.00	
05 05 23 00-0398	EA	5/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	11.83	
		For >100 To 250, Deduct	-2.00	
		For >250 To 500, Deduct	-2.50	
		For >500, Deduct	-3.00	
05 05 23 00-0399	EA	5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.15	
		For >100 To 250, Deduct	-2.00	
		For >250 To 500, Deduct	-2.50	
		For >500, Deduct	-3.00	
05 05 23 00-0400	EA	5/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	12.69	
		For >100 To 250, Deduct	-2.04	
		For >250 To 500, Deduct	-2.55	
		For >500, Deduct	-3.06	
05 05 23 00-0401	EA	5/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	13.31	
		For >100 To 250, Deduct	-2.04	
		For >250 To 500, Deduct	-2.55	
		For >500, Deduct	-3.06	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0402	EA	5/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	13.64	
		For >100 To 250, Deduct		-2.04	
		For >250 To 500, Deduct		-2.55	
		For >500, Deduct		-3.06	
05 05 23 00-0403	EA	5/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	14.02	
		For >100 To 250, Deduct		-2.08	
		For >250 To 500, Deduct		-2.61	
		For >500, Deduct		-3.13	
05 05 23 00-0404	EA	5/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	14.55	
		For >100 To 250, Deduct		-2.08	
		For >250 To 500, Deduct		-2.61	
		For >500, Deduct		-3.13	
05 05 23 00-0405	EA	5/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	15.39	
		For >100 To 250, Deduct		-2.08	
		For >250 To 500, Deduct		-2.61	
		For >500, Deduct		-3.13	
05 05 23 00-0406	EA	5/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	16.37	
		For >100 To 250, Deduct		-2.13	
		For >250 To 500, Deduct		-2.66	
		For >500, Deduct		-3.19	
05 05 23 00-0407	EA	5/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	17.06	
		For >100 To 250, Deduct		-2.13	
		For >250 To 500, Deduct		-2.66	
		For >500, Deduct		-3.19	
05 05 23 00-0408	EA	5/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	17.17	
		For >100 To 250, Deduct		-2.13	
		For >250 To 500, Deduct		-2.66	
		For >500, Deduct		-3.19	
05 05 23 00-0409	EA	5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	18.64	
		For >100 To 250, Deduct		-2.17	
		For >250 To 500, Deduct		-2.72	
		For >500, Deduct		-3.26	
05 05 23 00-0410	EA	5/8" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	19.58	
		For >100 To 250, Deduct		-2.17	
		For >250 To 500, Deduct		-2.72	
		For >500, Deduct		-3.26	
05 05 23 00-0411	EA	5/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	20.95	
		For >100 To 250, Deduct		-2.17	
		For >250 To 500, Deduct		-2.72	
		For >500, Deduct		-3.26	
05 05 23 00-0412	EA	5/8" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	21.42	
		For >100 To 250, Deduct		-2.17	
		For >250 To 500, Deduct		-2.72	
		For >500, Deduct		-3.26	
05 05 23 00-0413		3/4" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)			
05 05 23 00-0414	EA	3/4" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	11.71	
		For >100 To 250, Deduct		-1.96	
		For >250 To 500, Deduct		-2.45	
		For >500, Deduct		-2.93	
05 05 23 00-0415	EA	3/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	11.85	
		For >100 To 250, Deduct		-1.96	
		For >250 To 500, Deduct		-2.45	
		For >500, Deduct		-2.93	
05 05 23 00-0416	EA	3/4" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	11.92	
		For >100 To 250, Deduct		-1.96	
		For >250 To 500, Deduct		-2.45	
		For >500, Deduct		-2.93	
05 05 23 00-0417	EA	3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	12.43	
		For >100 To 250, Deduct		-2.00	
		For >250 To 500, Deduct		-2.50	
		For >500, Deduct		-3.00	
05 05 23 00-0418	EA	3/4" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	12.78	
		For >100 To 250, Deduct		-2.00	
		For >250 To 500, Deduct		-2.50	
		For >500, Deduct		-3.00	
05 05 23 00-0419	EA	3/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	13.31	
		For >100 To 250, Deduct		-2.00	
		For >250 To 500, Deduct		-2.50	
		For >500, Deduct		-3.00	
05 05 23 00-0420	EA	3/4" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	13.89	
		For >100 To 250, Deduct		-2.04	
		For >250 To 500, Deduct		-2.55	
		For >500, Deduct		-3.06	
05 05 23 00-0421	EA	3/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	14.23	
		For >100 To 250, Deduct		-2.04	
		For >250 To 500, Deduct		-2.55	
		For >500, Deduct		-3.06	
05 05 23 00-0422	EA	3/4" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt	.....	14.96	
		For >100 To 250, Deduct		-2.04	
		For >250 To 500, Deduct		-2.55	
		For >500, Deduct		-3.06	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0423	EA	3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.49	
		For >100 To 250, Deduct	-2.08	
		For >250 To 500, Deduct	-2.61	
		For >500, Deduct	-3.13	
05 05 23 00-0424	EA	3/4" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.09	
		For >100 To 250, Deduct	-2.08	
		For >250 To 500, Deduct	-2.61	
		For >500, Deduct	-3.13	
05 05 23 00-0425	EA	3/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.81	
		For >100 To 250, Deduct	-2.08	
		For >250 To 500, Deduct	-2.61	
		For >500, Deduct	-3.13	
05 05 23 00-0426	EA	3/4" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.06	
		For >100 To 250, Deduct	-2.13	
		For >250 To 500, Deduct	-2.66	
		For >500, Deduct	-3.19	
05 05 23 00-0427	EA	3/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.82	
		For >100 To 250, Deduct	-2.13	
		For >250 To 500, Deduct	-2.66	
		For >500, Deduct	-3.19	
05 05 23 00-0428	EA	3/4" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	19.24	
		For >100 To 250, Deduct	-2.13	
		For >250 To 500, Deduct	-2.66	
		For >500, Deduct	-3.19	
05 05 23 00-0429	EA	3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	20.59	
		For >100 To 250, Deduct	-2.17	
		For >250 To 500, Deduct	-2.72	
		For >500, Deduct	-3.26	
05 05 23 00-0430	EA	3/4" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	20.97	
		For >100 To 250, Deduct	-2.17	
		For >250 To 500, Deduct	-2.72	
		For >500, Deduct	-3.26	
05 05 23 00-0431	EA	3/4" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	22.21	
		For >100 To 250, Deduct	-2.17	
		For >250 To 500, Deduct	-2.72	
		For >500, Deduct	-3.26	
05 05 23 00-0432	EA	3/4" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	22.52	
		For >100 To 250, Deduct	-2.17	
		For >250 To 500, Deduct	-2.72	
		For >500, Deduct	-3.26	
05 05 23 00-0433		7/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)		
05 05 23 00-0434	EA	7/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.78	
		For >100 To 250, Deduct	-2.17	
		For >250 To 500, Deduct	-2.72	
		For >500, Deduct	-3.26	
05 05 23 00-0435	EA	7/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.95	
		For >100 To 250, Deduct	-2.17	
		For >250 To 500, Deduct	-2.72	
		For >500, Deduct	-3.26	
05 05 23 00-0436	EA	7/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.18	
		For >100 To 250, Deduct	-2.17	
		For >250 To 500, Deduct	-2.72	
		For >500, Deduct	-3.26	
05 05 23 00-0437	EA	7/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.64	
		For >100 To 250, Deduct	-2.22	
		For >250 To 500, Deduct	-2.77	
		For >500, Deduct	-3.32	
05 05 23 00-0438	EA	7/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.34	
		For >100 To 250, Deduct	-2.22	
		For >250 To 500, Deduct	-2.77	
		For >500, Deduct	-3.32	
05 05 23 00-0439	EA	7/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.80	
		For >100 To 250, Deduct	-2.22	
		For >250 To 500, Deduct	-2.77	
		For >500, Deduct	-3.32	
05 05 23 00-0440	EA	7/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.37	
		For >100 To 250, Deduct	-2.26	
		For >250 To 500, Deduct	-2.83	
		For >500, Deduct	-3.39	
05 05 23 00-0441	EA	7/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.20	
		For >100 To 250, Deduct	-2.26	
		For >250 To 500, Deduct	-2.83	
		For >500, Deduct	-3.39	
05 05 23 00-0442	EA	7/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.83	
		For >100 To 250, Deduct	-2.26	
		For >250 To 500, Deduct	-2.83	
		For >500, Deduct	-3.39	
05 05 23 00-0443	EA	7/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.34	
		For >100 To 250, Deduct	-2.30	
		For >250 To 500, Deduct	-2.88	
		For >500, Deduct	-3.45	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0444	EA		7/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.86	
			For >100 To 250, Deduct	-2.30	
			For >250 To 500, Deduct	-2.88	
			For >500, Deduct	-3.45	
05 05 23 00-0445	EA		7/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	21.09	
			For >100 To 250, Deduct	-2.30	
			For >250 To 500, Deduct	-2.88	
			For >500, Deduct	-3.45	
05 05 23 00-0446	EA		7/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	22.10	
			For >100 To 250, Deduct	-2.35	
			For >250 To 500, Deduct	-2.93	
			For >500, Deduct	-3.52	
05 05 23 00-0447	EA		7/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	23.08	
			For >100 To 250, Deduct	-2.35	
			For >250 To 500, Deduct	-2.93	
			For >500, Deduct	-3.52	
05 05 23 00-0448	EA		7/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	23.14	
			For >100 To 250, Deduct	-2.35	
			For >250 To 500, Deduct	-2.93	
			For >500, Deduct	-3.52	
05 05 23 00-0449	EA		7/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	24.78	
			For >100 To 250, Deduct	-2.39	
			For >250 To 500, Deduct	-2.99	
			For >500, Deduct	-3.59	
05 05 23 00-0450	EA		7/8" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	25.73	
			For >100 To 250, Deduct	-2.39	
			For >250 To 500, Deduct	-2.99	
			For >500, Deduct	-3.59	
05 05 23 00-0451	EA		7/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	26.55	
			For >100 To 250, Deduct	-2.39	
			For >250 To 500, Deduct	-2.99	
			For >500, Deduct	-3.59	
05 05 23 00-0452	EA		7/8" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	27.37	
			For >100 To 250, Deduct	-2.39	
			For >250 To 500, Deduct	-2.99	
			For >500, Deduct	-3.59	
05 05 23 00-0453			1" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)		
05 05 23 00-0454	EA		1" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.34	
			For >100 To 250, Deduct	-2.17	
			For >250 To 500, Deduct	-2.72	
			For >500, Deduct	-3.26	
05 05 23 00-0455	EA		1" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.39	
			For >100 To 250, Deduct	-2.17	
			For >250 To 500, Deduct	-2.72	
			For >500, Deduct	-3.26	
05 05 23 00-0456	EA		1" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.13	
			For >100 To 250, Deduct	-2.22	
			For >250 To 500, Deduct	-2.77	
			For >500, Deduct	-3.32	
05 05 23 00-0457	EA		1" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.81	
			For >100 To 250, Deduct	-2.22	
			For >250 To 500, Deduct	-2.77	
			For >500, Deduct	-3.32	
05 05 23 00-0458	EA		1" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.31	
			For >100 To 250, Deduct	-2.22	
			For >250 To 500, Deduct	-2.77	
			For >500, Deduct	-3.32	
05 05 23 00-0459	EA		1" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.17	
			For >100 To 250, Deduct	-2.26	
			For >250 To 500, Deduct	-2.83	
			For >500, Deduct	-3.39	
05 05 23 00-0460	EA		1" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.97	
			For >100 To 250, Deduct	-2.26	
			For >250 To 500, Deduct	-2.83	
			For >500, Deduct	-3.39	
05 05 23 00-0461	EA		1" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	20.12	
			For >100 To 250, Deduct	-2.26	
			For >250 To 500, Deduct	-2.83	
			For >500, Deduct	-3.39	
05 05 23 00-0462	EA		1" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	21.16	
			For >100 To 250, Deduct	-2.30	
			For >250 To 500, Deduct	-2.88	
			For >500, Deduct	-3.45	
05 05 23 00-0463	EA		1" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	21.41	
			For >100 To 250, Deduct	-2.30	
			For >250 To 500, Deduct	-2.88	
			For >500, Deduct	-3.45	
05 05 23 00-0464	EA		1" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	23.02	
			For >100 To 250, Deduct	-2.30	
			For >250 To 500, Deduct	-2.88	
			For >500, Deduct	-3.45	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0465 EA 1" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	24.28	
For>100 To 250, Deduct	-2.35	
For>250 To 500, Deduct	-2.93	
For>500, Deduct	-3.52	
05 05 23 00-0466 EA 1" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	26.00	
For>100 To 250, Deduct	-2.35	
For>250 To 500, Deduct	-2.93	
For>500, Deduct	-3.52	
05 05 23 00-0467 EA 1" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	26.49	
For>100 To 250, Deduct	-2.35	
For>250 To 500, Deduct	-2.93	
For>500, Deduct	-3.52	
05 05 23 00-0468 EA 1" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	32.22	
For>100 To 250, Deduct	-2.39	
For>250 To 500, Deduct	-2.99	
For>500, Deduct	-3.59	
05 05 23 00-0469 EA 1" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	32.65	
For>100 To 250, Deduct	-2.39	
For>250 To 500, Deduct	-2.99	
For>500, Deduct	-3.59	
05 05 23 00-0470 EA 1" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	33.83	
For>100 To 250, Deduct	-2.39	
For>250 To 500, Deduct	-2.99	
For>500, Deduct	-3.59	
05 05 23 00-0471 EA 1" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	34.64	
For>100 To 250, Deduct	-2.39	
For>250 To 500, Deduct	-2.99	
For>500, Deduct	-3.59	
05 05 23 00-0472 Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0097)		
05 05 23 00-0473 1/4" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)		
05 05 23 00-0474 EA 1/4" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.77	
For>100 To 250, Deduct	-1.52	
For>250 To 500, Deduct	-1.90	
For>500, Deduct	-2.28	
05 05 23 00-0475 EA 1/4" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.85	
For>100 To 250, Deduct	-1.52	
For>250 To 500, Deduct	-1.90	
For>500, Deduct	-2.28	
05 05 23 00-0476 EA 1/4" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.89	
For>100 To 250, Deduct	-1.52	
For>250 To 500, Deduct	-1.90	
For>500, Deduct	-2.28	
05 05 23 00-0477 EA 1/4" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.98	
For>100 To 250, Deduct	-1.52	
For>250 To 500, Deduct	-1.90	
For>500, Deduct	-2.28	
05 05 23 00-0478 EA 1/4" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.24	
For>100 To 250, Deduct	-1.56	
For>250 To 500, Deduct	-1.96	
For>500, Deduct	-2.35	
05 05 23 00-0479 EA 1/4" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.34	
For>100 To 250, Deduct	-1.56	
For>250 To 500, Deduct	-1.96	
For>500, Deduct	-2.35	
05 05 23 00-0480 EA 1/4" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.43	
For>100 To 250, Deduct	-1.56	
For>250 To 500, Deduct	-1.96	
For>500, Deduct	-2.35	
05 05 23 00-0481 EA 1/4" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.66	
For>100 To 250, Deduct	-1.61	
For>250 To 500, Deduct	-2.01	
For>500, Deduct	-2.41	
05 05 23 00-0482 EA 1/4" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.93	
For>100 To 250, Deduct	-1.61	
For>250 To 500, Deduct	-2.01	
For>500, Deduct	-2.41	
05 05 23 00-0483 EA 1/4" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.18	
For>100 To 250, Deduct	-1.61	
For>250 To 500, Deduct	-2.01	
For>500, Deduct	-2.41	
05 05 23 00-0484 EA 1/4" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.51	
For>100 To 250, Deduct	-1.65	
For>250 To 500, Deduct	-2.06	
For>500, Deduct	-2.48	
05 05 23 00-0485 EA 1/4" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.65	
For>100 To 250, Deduct	-1.65	
For>250 To 500, Deduct	-2.06	
For>500, Deduct	-2.48	
05 05 23 00-0486 EA 1/4" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.82	
For>100 To 250, Deduct	-1.65	
For>250 To 500, Deduct	-2.06	
For>500, Deduct	-2.48	



		Metals	05
		Common Work Results for Metals	05 05
		Metal Fastenings	05 05 23

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0487	EA	1/4" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.16	
		For >100 To 250, Deduct	-1.69	
		For >250 To 500, Deduct	-2.12	
		For >500, Deduct	-2.54	
05 05 23 00-0488	EA	1/4" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.49	
		For >100 To 250, Deduct	-1.69	
		For >250 To 500, Deduct	-2.12	
		For >500, Deduct	-2.54	
05 05 23 00-0489	EA	1/4" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.64	
		For >100 To 250, Deduct	-1.69	
		For >250 To 500, Deduct	-2.12	
		For >500, Deduct	-2.54	
05 05 23 00-0490 5/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)				
05 05 23 00-0491	EA	5/16" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.84	
		For >100 To 250, Deduct	-1.52	
		For >250 To 500, Deduct	-1.90	
		For >500, Deduct	-2.28	
05 05 23 00-0492	EA	5/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.89	
		For >100 To 250, Deduct	-1.52	
		For >250 To 500, Deduct	-1.90	
		For >500, Deduct	-2.28	
05 05 23 00-0493	EA	5/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.05	
		For >100 To 250, Deduct	-1.52	
		For >250 To 500, Deduct	-1.90	
		For >500, Deduct	-2.28	
05 05 23 00-0494	EA	5/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.08	
		For >100 To 250, Deduct	-1.52	
		For >250 To 500, Deduct	-1.90	
		For >500, Deduct	-2.28	
05 05 23 00-0495	EA	5/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.38	
		For >100 To 250, Deduct	-1.56	
		For >250 To 500, Deduct	-1.96	
		For >500, Deduct	-2.35	
05 05 23 00-0496	EA	5/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.61	
		For >100 To 250, Deduct	-1.56	
		For >250 To 500, Deduct	-1.96	
		For >500, Deduct	-2.35	
05 05 23 00-0497	EA	5/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.68	
		For >100 To 250, Deduct	-1.56	
		For >250 To 500, Deduct	-1.96	
		For >500, Deduct	-2.35	
05 05 23 00-0498	EA	5/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.04	
		For >100 To 250, Deduct	-1.61	
		For >250 To 500, Deduct	-2.01	
		For >500, Deduct	-2.41	
05 05 23 00-0499	EA	5/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.19	
		For >100 To 250, Deduct	-1.61	
		For >250 To 500, Deduct	-2.01	
		For >500, Deduct	-2.41	
05 05 23 00-0500	EA	5/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.53	
		For >100 To 250, Deduct	-1.61	
		For >250 To 500, Deduct	-2.01	
		For >500, Deduct	-2.41	
05 05 23 00-0501	EA	5/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.94	
		For >100 To 250, Deduct	-1.65	
		For >250 To 500, Deduct	-2.06	
		For >500, Deduct	-2.48	
05 05 23 00-0502	EA	5/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.07	
		For >100 To 250, Deduct	-1.65	
		For >250 To 500, Deduct	-2.06	
		For >500, Deduct	-2.48	
05 05 23 00-0503	EA	5/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.27	
		For >100 To 250, Deduct	-1.65	
		For >250 To 500, Deduct	-2.06	
		For >500, Deduct	-2.48	
05 05 23 00-0504	EA	5/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.63	
		For >100 To 250, Deduct	-1.69	
		For >250 To 500, Deduct	-2.12	
		For >500, Deduct	-2.54	
05 05 23 00-0505	EA	5/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.77	
		For >100 To 250, Deduct	-1.69	
		For >250 To 500, Deduct	-2.12	
		For >500, Deduct	-2.54	
05 05 23 00-0506	EA	5/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.06	
		For >100 To 250, Deduct	-1.69	
		For >250 To 500, Deduct	-2.12	
		For >500, Deduct	-2.54	

05 05 23 00-0507 3/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0508	EA	3/8" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.01	
		For >100 To 250, Deduct	-1.52	
		For >250 To 500, Deduct	-1.90	
		For >500, Deduct	-2.28	
05 05 23 00-0509	EA	3/8" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.02	
		For >100 To 250, Deduct	-1.52	
		For >250 To 500, Deduct	-1.90	
		For >500, Deduct	-2.28	
05 05 23 00-0510	EA	3/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.04	
		For >100 To 250, Deduct	-1.52	
		For >250 To 500, Deduct	-1.90	
		For >500, Deduct	-2.28	
05 05 23 00-0511	EA	3/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.22	
		For >100 To 250, Deduct	-1.52	
		For >250 To 500, Deduct	-1.90	
		For >500, Deduct	-2.28	
05 05 23 00-0512	EA	3/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.54	
		For >100 To 250, Deduct	-1.56	
		For >250 To 500, Deduct	-1.96	
		For >500, Deduct	-2.35	
05 05 23 00-0513	EA	3/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.73	
		For >100 To 250, Deduct	-1.56	
		For >250 To 500, Deduct	-1.96	
		For >500, Deduct	-2.35	
05 05 23 00-0514	EA	3/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	8.89	
		For >100 To 250, Deduct	-1.56	
		For >250 To 500, Deduct	-1.96	
		For >500, Deduct	-2.35	
05 05 23 00-0515	EA	3/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.64	
		For >100 To 250, Deduct	-1.61	
		For >250 To 500, Deduct	-2.01	
		For >500, Deduct	-2.41	
05 05 23 00-0516	EA	3/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.86	
		For >100 To 250, Deduct	-1.61	
		For >250 To 500, Deduct	-2.01	
		For >500, Deduct	-2.41	
05 05 23 00-0517	EA	3/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.90	
		For >100 To 250, Deduct	-1.61	
		For >250 To 500, Deduct	-2.01	
		For >500, Deduct	-2.41	
05 05 23 00-0518	EA	3/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.19	
		For >100 To 250, Deduct	-1.65	
		For >250 To 500, Deduct	-2.06	
		For >500, Deduct	-2.48	
05 05 23 00-0519	EA	3/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.43	
		For >100 To 250, Deduct	-1.65	
		For >250 To 500, Deduct	-2.06	
		For >500, Deduct	-2.48	
05 05 23 00-0520	EA	3/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.47	
		For >100 To 250, Deduct	-1.65	
		For >250 To 500, Deduct	-2.06	
		For >500, Deduct	-2.48	
05 05 23 00-0521	EA	3/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.93	
		For >100 To 250, Deduct	-1.69	
		For >250 To 500, Deduct	-2.12	
		For >500, Deduct	-2.54	
05 05 23 00-0522	EA	3/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.40	
		For >100 To 250, Deduct	-1.69	
		For >250 To 500, Deduct	-2.12	
		For >500, Deduct	-2.54	
05 05 23 00-0523	EA	3/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.49	
		For >100 To 250, Deduct	-1.69	
		For >250 To 500, Deduct	-2.12	
		For >500, Deduct	-2.54	
05 05 23 00-0524		7/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)		
05 05 23 00-0525	EA	7/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.26	
		For >100 To 250, Deduct	-1.74	
		For >250 To 500, Deduct	-2.17	
		For >500, Deduct	-2.61	
05 05 23 00-0526	EA	7/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.29	
		For >100 To 250, Deduct	-1.74	
		For >250 To 500, Deduct	-2.17	
		For >500, Deduct	-2.61	
05 05 23 00-0527	EA	7/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.59	
		For >100 To 250, Deduct	-1.74	
		For >250 To 500, Deduct	-2.17	
		For >500, Deduct	-2.61	
05 05 23 00-0528	EA	7/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.82	
		For >100 To 250, Deduct	-1.78	
		For >250 To 500, Deduct	-2.23	
		For >500, Deduct	-2.67	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0529	EA	7/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.15		
		For >100 To 250, Deduct	-1.78		
		For >250 To 500, Deduct	-2.23		
		For >500, Deduct	-2.67		
05 05 23 00-0530	EA	7/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.33		
		For >100 To 250, Deduct	-1.78		
		For >250 To 500, Deduct	-2.23		
		For >500, Deduct	-2.67		
05 05 23 00-0531	EA	7/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.59		
		For >100 To 250, Deduct	-1.82		
		For >250 To 500, Deduct	-2.28		
		For >500, Deduct	-2.74		
05 05 23 00-0532	EA	7/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.32		
		For >100 To 250, Deduct	-1.82		
		For >250 To 500, Deduct	-2.28		
		For >500, Deduct	-2.74		
05 05 23 00-0533	EA	7/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.89		
		For >100 To 250, Deduct	-1.82		
		For >250 To 500, Deduct	-2.28		
		For >500, Deduct	-2.74		
05 05 23 00-0534	EA	7/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.49		
		For >100 To 250, Deduct	-1.87		
		For >250 To 500, Deduct	-2.34		
		For >500, Deduct	-2.80		
05 05 23 00-0535	EA	7/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.70		
		For >100 To 250, Deduct	-1.87		
		For >250 To 500, Deduct	-2.34		
		For >500, Deduct	-2.80		
05 05 23 00-0536	EA	7/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.99		
		For >100 To 250, Deduct	-1.87		
		For >250 To 500, Deduct	-2.34		
		For >500, Deduct	-2.80		
05 05 23 00-0537	EA	7/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.66		
		For >100 To 250, Deduct	-1.91		
		For >250 To 500, Deduct	-2.39		
		For >500, Deduct	-2.87		
05 05 23 00-0538	EA	7/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.62		
		For >100 To 250, Deduct	-1.91		
		For >250 To 500, Deduct	-2.39		
		For >500, Deduct	-2.87		
05 05 23 00-0539	EA	7/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.70		
		For >100 To 250, Deduct	-1.91		
		For >250 To 500, Deduct	-2.39		
		For >500, Deduct	-2.87		
05 05 23 00-0540		1/2" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)			
05 05 23 00-0541	EA	1/2" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.46		
		For >100 To 250, Deduct	-1.74		
		For >250 To 500, Deduct	-2.17		
		For >500, Deduct	-2.61		
05 05 23 00-0542	EA	1/2" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.67		
		For >100 To 250, Deduct	-1.74		
		For >250 To 500, Deduct	-2.17		
		For >500, Deduct	-2.61		
05 05 23 00-0543	EA	1/2" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.80		
		For >100 To 250, Deduct	-1.74		
		For >250 To 500, Deduct	-2.17		
		For >500, Deduct	-2.61		
05 05 23 00-0544	EA	1/2" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.15		
		For >100 To 250, Deduct	-1.78		
		For >250 To 500, Deduct	-2.23		
		For >500, Deduct	-2.67		
05 05 23 00-0545	EA	1/2" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.39		
		For >100 To 250, Deduct	-1.78		
		For >250 To 500, Deduct	-2.23		
		For >500, Deduct	-2.67		
05 05 23 00-0546	EA	1/2" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.92		
		For >100 To 250, Deduct	-1.78		
		For >250 To 500, Deduct	-2.23		
		For >500, Deduct	-2.67		
05 05 23 00-0547	EA	1/2" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.51		
		For >100 To 250, Deduct	-1.82		
		For >250 To 500, Deduct	-2.28		
		For >500, Deduct	-2.74		
05 05 23 00-0548	EA	1/2" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.82		
		For >100 To 250, Deduct	-1.82		
		For >250 To 500, Deduct	-2.28		
		For >500, Deduct	-2.74		
05 05 23 00-0549	EA	1/2" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.04		
		For >100 To 250, Deduct	-1.82		
		For >250 To 500, Deduct	-2.28		
		For >500, Deduct	-2.74		

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0550	EA	1/2" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.64	
		For >100 To 250, Deduct	-1.87	
		For >250 To 500, Deduct	-2.34	
		For >500, Deduct	-2.80	
05 05 23 00-0551	EA	1/2" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.31	
		For >100 To 250, Deduct	-1.87	
		For >250 To 500, Deduct	-2.34	
		For >500, Deduct	-2.80	
05 05 23 00-0552	EA	1/2" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.93	
		For >100 To 250, Deduct	-1.87	
		For >250 To 500, Deduct	-2.34	
		For >500, Deduct	-2.80	
05 05 23 00-0553	EA	1/2" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.68	
		For >100 To 250, Deduct	-1.91	
		For >250 To 500, Deduct	-2.39	
		For >500, Deduct	-2.87	
05 05 23 00-0554	EA	1/2" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.95	
		For >100 To 250, Deduct	-1.91	
		For >250 To 500, Deduct	-2.39	
		For >500, Deduct	-2.87	
05 05 23 00-0555	EA	1/2" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.72	
		For >100 To 250, Deduct	-1.91	
		For >250 To 500, Deduct	-2.39	
		For >500, Deduct	-2.87	
05 05 23 00-0556	EA	1/2" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	17.21	
		For >100 To 250, Deduct	-1.96	
		For >250 To 500, Deduct	-2.45	
		For >500, Deduct	-2.93	
05 05 23 00-0557	EA	1/2" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.76	
		For >100 To 250, Deduct	-1.96	
		For >250 To 500, Deduct	-2.45	
		For >500, Deduct	-2.93	
05 05 23 00-0558	EA	1/2" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	18.05	
		For >100 To 250, Deduct	-1.96	
		For >250 To 500, Deduct	-2.45	
		For >500, Deduct	-2.93	
05 05 23 00-0559	EA	1/2" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.42	
		For >100 To 250, Deduct	-1.96	
		For >250 To 500, Deduct	-2.45	
		For >500, Deduct	-2.93	
05 05 23 00-0560		9/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)		
05 05 23 00-0561	EA	9/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.65	
		For >100 To 250, Deduct	-1.74	
		For >250 To 500, Deduct	-2.17	
		For >500, Deduct	-2.61	
05 05 23 00-0562	EA	9/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	9.78	
		For >100 To 250, Deduct	-1.74	
		For >250 To 500, Deduct	-2.17	
		For >500, Deduct	-2.61	
05 05 23 00-0563	EA	9/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.08	
		For >100 To 250, Deduct	-1.74	
		For >250 To 500, Deduct	-2.17	
		For >500, Deduct	-2.61	
05 05 23 00-0564	EA	9/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	10.73	
		For >100 To 250, Deduct	-1.78	
		For >250 To 500, Deduct	-2.23	
		For >500, Deduct	-2.67	
05 05 23 00-0565	EA	9/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.83	
		For >100 To 250, Deduct	-1.78	
		For >250 To 500, Deduct	-2.23	
		For >500, Deduct	-2.67	
05 05 23 00-0566	EA	9/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.27	
		For >100 To 250, Deduct	-1.78	
		For >250 To 500, Deduct	-2.23	
		For >500, Deduct	-2.67	
05 05 23 00-0567	EA	9/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.77	
		For >100 To 250, Deduct	-1.82	
		For >250 To 500, Deduct	-2.28	
		For >500, Deduct	-2.74	
05 05 23 00-0568	EA	9/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.20	
		For >100 To 250, Deduct	-1.82	
		For >250 To 500, Deduct	-2.28	
		For >500, Deduct	-2.74	
05 05 23 00-0569	EA	9/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.47	
		For >100 To 250, Deduct	-1.82	
		For >250 To 500, Deduct	-2.28	
		For >500, Deduct	-2.74	
05 05 23 00-0570	EA	9/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.92	
		For >100 To 250, Deduct	-1.87	
		For >250 To 500, Deduct	-2.34	
		For >500, Deduct	-2.80	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0571	EA		9/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.53	
			For >100 To 250, Deduct	-1.87	
			For >250 To 500, Deduct	-2.34	
			For >500, Deduct	-2.80	
05 05 23 00-0572	EA		9/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	16.86	
			For >100 To 250, Deduct	-1.87	
			For >250 To 500, Deduct	-2.34	
			For >500, Deduct	-2.80	
05 05 23 00-0573	EA		9/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.81	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.39	
			For >500, Deduct	-2.87	
05 05 23 00-0574	EA		9/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	23.17	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.39	
			For >500, Deduct	-2.87	
05 05 23 00-0575	EA		9/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	26.83	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.39	
			For >500, Deduct	-2.87	
05 05 23 00-0576			5/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)		
05 05 23 00-0577	EA		5/8" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.20	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.93	
05 05 23 00-0578	EA		5/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	11.33	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.93	
05 05 23 00-0579	EA		5/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.66	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.93	
05 05 23 00-0580	EA		5/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.35	
			For >100 To 250, Deduct	-2.00	
			For >250 To 500, Deduct	-2.50	
			For >500, Deduct	-3.00	
05 05 23 00-0581	EA		5/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.74	
			For >100 To 250, Deduct	-2.00	
			For >250 To 500, Deduct	-2.50	
			For >500, Deduct	-3.00	
05 05 23 00-0582	EA		5/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.95	
			For >100 To 250, Deduct	-2.00	
			For >250 To 500, Deduct	-2.50	
			For >500, Deduct	-3.00	
05 05 23 00-0583	EA		5/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.32	
			For >100 To 250, Deduct	-2.04	
			For >250 To 500, Deduct	-2.55	
			For >500, Deduct	-3.06	
05 05 23 00-0584	EA		5/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.02	
			For >100 To 250, Deduct	-2.04	
			For >250 To 500, Deduct	-2.55	
			For >500, Deduct	-3.06	
05 05 23 00-0585	EA		5/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.33	
			For >100 To 250, Deduct	-2.04	
			For >250 To 500, Deduct	-2.55	
			For >500, Deduct	-3.06	
05 05 23 00-0586	EA		5/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.87	
			For >100 To 250, Deduct	-2.08	
			For >250 To 500, Deduct	-2.61	
			For >500, Deduct	-3.13	
05 05 23 00-0587	EA		5/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.20	
			For >100 To 250, Deduct	-2.08	
			For >250 To 500, Deduct	-2.61	
			For >500, Deduct	-3.13	
05 05 23 00-0588	EA		5/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	15.89	
			For >100 To 250, Deduct	-2.08	
			For >250 To 500, Deduct	-2.61	
			For >500, Deduct	-3.13	
05 05 23 00-0589	EA		5/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.74	
			For >100 To 250, Deduct	-2.13	
			For >250 To 500, Deduct	-2.66	
			For >500, Deduct	-3.19	
05 05 23 00-0590	EA		5/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	18.53	
			For >100 To 250, Deduct	-2.13	
			For >250 To 500, Deduct	-2.66	
			For >500, Deduct	-3.19	
05 05 23 00-0591	EA		5/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.86	
			For >100 To 250, Deduct	-2.13	
			For >250 To 500, Deduct	-2.66	
			For >500, Deduct	-3.19	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0592 EA 5/8" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	20.47	
For >100 To 250, Deduct	-2.17	
For >250 To 500, Deduct	-2.72	
For >500, Deduct	-3.26	
05 05 23 00-0593 EA 5/8" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.01	
For >100 To 250, Deduct	-2.17	
For >250 To 500, Deduct	-2.72	
For >500, Deduct	-3.26	
05 05 23 00-0594 EA 5/8" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	22.12	
For >100 To 250, Deduct	-2.17	
For >250 To 500, Deduct	-2.72	
For >500, Deduct	-3.26	
05 05 23 00-0595 EA 5/8" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	23.56	
For >100 To 250, Deduct	-2.17	
For >250 To 500, Deduct	-2.72	
For >500, Deduct	-3.26	
05 05 23 00-0596 3/4" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)		
05 05 23 00-0597 EA 3/4" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.94	
For >100 To 250, Deduct	-1.96	
For >250 To 500, Deduct	-2.45	
For >500, Deduct	-2.93	
05 05 23 00-0598 EA 3/4" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.07	
For >100 To 250, Deduct	-1.96	
For >250 To 500, Deduct	-2.45	
For >500, Deduct	-2.93	
05 05 23 00-0599 EA 3/4" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.17	
For >100 To 250, Deduct	-1.96	
For >250 To 500, Deduct	-2.45	
For >500, Deduct	-2.93	
05 05 23 00-0600 EA 3/4" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	12.58	
For >100 To 250, Deduct	-2.00	
For >250 To 500, Deduct	-2.50	
For >500, Deduct	-3.00	
05 05 23 00-0601 EA 3/4" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.87	
For >100 To 250, Deduct	-2.00	
For >250 To 500, Deduct	-2.50	
For >500, Deduct	-3.00	
05 05 23 00-0602 EA 3/4" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	13.71	
For >100 To 250, Deduct	-2.00	
For >250 To 500, Deduct	-2.50	
For >500, Deduct	-3.00	
05 05 23 00-0603 EA 3/4" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.28	
For >100 To 250, Deduct	-2.04	
For >250 To 500, Deduct	-2.55	
For >500, Deduct	-3.06	
05 05 23 00-0604 EA 3/4" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	14.35	
For >100 To 250, Deduct	-2.04	
For >250 To 500, Deduct	-2.55	
For >500, Deduct	-3.06	
05 05 23 00-0605 EA 3/4" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.49	
For >100 To 250, Deduct	-2.04	
For >250 To 500, Deduct	-2.55	
For >500, Deduct	-3.06	
05 05 23 00-0606 EA 3/4" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	16.11	
For >100 To 250, Deduct	-2.08	
For >250 To 500, Deduct	-2.61	
For >500, Deduct	-3.13	
05 05 23 00-0607 EA 3/4" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.71	
For >100 To 250, Deduct	-2.08	
For >250 To 500, Deduct	-2.61	
For >500, Deduct	-3.13	
05 05 23 00-0608 EA 3/4" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	17.82	
For >100 To 250, Deduct	-2.08	
For >250 To 500, Deduct	-2.61	
For >500, Deduct	-3.13	
05 05 23 00-0609 EA 3/4" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.40	
For >100 To 250, Deduct	-2.13	
For >250 To 500, Deduct	-2.66	
For >500, Deduct	-3.19	
05 05 23 00-0610 EA 3/4" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	19.99	
For >100 To 250, Deduct	-2.13	
For >250 To 500, Deduct	-2.66	
For >500, Deduct	-3.19	
05 05 23 00-0611 EA 3/4" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	20.30	
For >100 To 250, Deduct	-2.13	
For >250 To 500, Deduct	-2.66	
For >500, Deduct	-3.19	
05 05 23 00-0612 EA 3/4" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	21.99	
For >100 To 250, Deduct	-2.17	
For >250 To 500, Deduct	-2.72	
For >500, Deduct	-3.26	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0613	EA	3/4"	Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	23.07	
			For >100 To 250, Deduct	-2.17	
			For >250 To 500, Deduct	-2.72	
			For >500, Deduct	-3.26	
05 05 23 00-0614	EA	3/4"	Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	23.84	
			For >100 To 250, Deduct	-2.17	
			For >250 To 500, Deduct	-2.72	
			For >500, Deduct	-3.26	
05 05 23 00-0615	EA	3/4"	Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	24.13	
			For >100 To 250, Deduct	-2.17	
			For >250 To 500, Deduct	-2.72	
			For >500, Deduct	-3.26	
05 05 23 00-0616			7/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)		
05 05 23 00-0617	EA	7/8"	Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	15.03	
			For >100 To 250, Deduct	-2.17	
			For >250 To 500, Deduct	-2.72	
			For >500, Deduct	-3.26	
05 05 23 00-0618	EA	7/8"	Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.40	
			For >100 To 250, Deduct	-2.17	
			For >250 To 500, Deduct	-2.72	
			For >500, Deduct	-3.26	
05 05 23 00-0619	EA	7/8"	Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	16.17	
			For >100 To 250, Deduct	-2.22	
			For >250 To 500, Deduct	-2.77	
			For >500, Deduct	-3.32	
05 05 23 00-0620	EA	7/8"	Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.27	
			For >100 To 250, Deduct	-2.22	
			For >250 To 500, Deduct	-2.77	
			For >500, Deduct	-3.32	
05 05 23 00-0621	EA	7/8"	Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	17.40	
			For >100 To 250, Deduct	-2.22	
			For >250 To 500, Deduct	-2.77	
			For >500, Deduct	-3.32	
05 05 23 00-0622	EA	7/8"	Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.85	
			For >100 To 250, Deduct	-2.26	
			For >250 To 500, Deduct	-2.83	
			For >500, Deduct	-3.39	
05 05 23 00-0623	EA	7/8"	Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	20.52	
			For >100 To 250, Deduct	-2.26	
			For >250 To 500, Deduct	-2.83	
			For >500, Deduct	-3.39	
05 05 23 00-0624	EA	7/8"	Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	21.20	
			For >100 To 250, Deduct	-2.26	
			For >250 To 500, Deduct	-2.83	
			For >500, Deduct	-3.39	
05 05 23 00-0625	EA	7/8"	Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	22.99	
			For >100 To 250, Deduct	-2.30	
			For >250 To 500, Deduct	-2.88	
			For >500, Deduct	-3.45	
05 05 23 00-0626	EA	7/8"	Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	23.99	
			For >100 To 250, Deduct	-2.30	
			For >250 To 500, Deduct	-2.88	
			For >500, Deduct	-3.45	
05 05 23 00-0627	EA	7/8"	Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	26.56	
			For >100 To 250, Deduct	-2.30	
			For >250 To 500, Deduct	-2.88	
			For >500, Deduct	-3.45	
05 05 23 00-0628	EA	7/8"	Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	27.64	
			For >100 To 250, Deduct	-2.35	
			For >250 To 500, Deduct	-2.93	
			For >500, Deduct	-3.52	
05 05 23 00-0629	EA	7/8"	Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	30.30	
			For >100 To 250, Deduct	-2.35	
			For >250 To 500, Deduct	-2.93	
			For >500, Deduct	-3.52	
05 05 23 00-0630	EA	7/8"	Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	31.37	
			For >100 To 250, Deduct	-2.35	
			For >250 To 500, Deduct	-2.93	
			For >500, Deduct	-3.52	
05 05 23 00-0631	EA	7/8"	Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	32.45	
			For >100 To 250, Deduct	-2.39	
			For >250 To 500, Deduct	-2.99	
			For >500, Deduct	-3.59	
05 05 23 00-0632	EA	7/8"	Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	32.76	
			For >100 To 250, Deduct	-2.39	
			For >250 To 500, Deduct	-2.99	
			For >500, Deduct	-3.59	
05 05 23 00-0633	EA	7/8"	Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	33.02	
			For >100 To 250, Deduct	-2.39	
			For >250 To 500, Deduct	-2.99	
			For >500, Deduct	-3.59	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0634 EA 7/8" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	33.66	
For >100 To 250, Deduct	-2.39	
For >250 To 500, Deduct	-2.99	
For >500, Deduct	-3.59	
05 05 23 00-0635 1" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)		
05 05 23 00-0636 EA 1" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	16.08	
For >100 To 250, Deduct	-2.17	
For >250 To 500, Deduct	-2.72	
For >500, Deduct	-3.26	
05 05 23 00-0637 EA 1" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.01	
For >100 To 250, Deduct	-2.17	
For >250 To 500, Deduct	-2.72	
For >500, Deduct	-3.26	
05 05 23 00-0638 EA 1" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	17.63	
For >100 To 250, Deduct	-2.22	
For >250 To 500, Deduct	-2.77	
For >500, Deduct	-3.32	
05 05 23 00-0639 EA 1" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.32	
For >100 To 250, Deduct	-2.22	
For >250 To 500, Deduct	-2.77	
For >500, Deduct	-3.32	
05 05 23 00-0640 EA 1" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	19.62	
For >100 To 250, Deduct	-2.22	
For >250 To 500, Deduct	-2.77	
For >500, Deduct	-3.32	
05 05 23 00-0641 EA 1" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	20.18	
For >100 To 250, Deduct	-2.26	
For >250 To 500, Deduct	-2.83	
For >500, Deduct	-3.39	
05 05 23 00-0642 EA 1" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	21.29	
For >100 To 250, Deduct	-2.26	
For >250 To 500, Deduct	-2.83	
For >500, Deduct	-3.39	
05 05 23 00-0643 EA 1" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.78	
For >100 To 250, Deduct	-2.26	
For >250 To 500, Deduct	-2.83	
For >500, Deduct	-3.39	
05 05 23 00-0644 EA 1" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	23.69	
For >100 To 250, Deduct	-2.30	
For >250 To 500, Deduct	-2.88	
For >500, Deduct	-3.45	
05 05 23 00-0645 EA 1" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	24.31	
For >100 To 250, Deduct	-2.30	
For >250 To 500, Deduct	-2.88	
For >500, Deduct	-3.45	
05 05 23 00-0646 EA 1" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	27.42	
For >100 To 250, Deduct	-2.30	
For >250 To 500, Deduct	-2.88	
For >500, Deduct	-3.45	
05 05 23 00-0647 EA 1" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	28.12	
For >100 To 250, Deduct	-2.35	
For >250 To 500, Deduct	-2.93	
For >500, Deduct	-3.52	
05 05 23 00-0648 EA 1" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	31.64	
For >100 To 250, Deduct	-2.35	
For >250 To 500, Deduct	-2.93	
For >500, Deduct	-3.52	
05 05 23 00-0649 EA 1" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	32.24	
For >100 To 250, Deduct	-2.35	
For >250 To 500, Deduct	-2.93	
For >500, Deduct	-3.52	
05 05 23 00-0650 EA 1" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	34.33	
For >100 To 250, Deduct	-2.39	
For >250 To 500, Deduct	-2.99	
For >500, Deduct	-3.59	
05 05 23 00-0651 EA 1" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	35.35	
For >100 To 250, Deduct	-2.39	
For >250 To 500, Deduct	-2.99	
For >500, Deduct	-3.59	
05 05 23 00-0652 EA 1" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt	38.03	
For >100 To 250, Deduct	-2.39	
For >250 To 500, Deduct	-2.99	
For >500, Deduct	-3.59	
05 05 23 00-0653 EA 1" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	39.66	
For >100 To 250, Deduct	-2.39	
For >250 To 500, Deduct	-2.99	
For >500, Deduct	-3.59	
05 05 23 00-0654 Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0097)		
05 05 23 00-0655 1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0654)		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0656	EA	1/4"	Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.88	
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-1.90	
			For >500, Deduct	-2.28	
05 05 23 00-0657	EA	1/4"	Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.89	
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-1.90	
			For >500, Deduct	-2.28	
05 05 23 00-0658	EA	1/4"	Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.91	
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-1.90	
			For >500, Deduct	-2.28	
05 05 23 00-0659	EA	1/4"	Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.09	
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-1.90	
			For >500, Deduct	-2.28	
05 05 23 00-0660	EA	1/4"	Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.40	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.96	
			For >500, Deduct	-2.35	
05 05 23 00-0661	EA	1/4"	Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.51	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.96	
			For >500, Deduct	-2.35	
05 05 23 00-0662	EA	1/4"	Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.56	
			For >100 To 250, Deduct	-1.56	
			For >250 To 500, Deduct	-1.96	
			For >500, Deduct	-2.35	
05 05 23 00-0663	EA	1/4"	Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.79	
			For >100 To 250, Deduct	-1.61	
			For >250 To 500, Deduct	-2.01	
			For >500, Deduct	-2.41	
05 05 23 00-0664	EA	1/4"	Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.92	
			For >100 To 250, Deduct	-1.61	
			For >250 To 500, Deduct	-2.01	
			For >500, Deduct	-2.41	
05 05 23 00-0665	EA	1/4"	Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.96	
			For >100 To 250, Deduct	-1.61	
			For >250 To 500, Deduct	-2.01	
			For >500, Deduct	-2.41	
05 05 23 00-0666	EA	1/4"	Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.26	
			For >100 To 250, Deduct	-1.65	
			For >250 To 500, Deduct	-2.06	
			For >500, Deduct	-2.48	
05 05 23 00-0667	EA	1/4"	Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.38	
			For >100 To 250, Deduct	-1.65	
			For >250 To 500, Deduct	-2.06	
			For >500, Deduct	-2.48	
05 05 23 00-0668	EA	1/4"	Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.42	
			For >100 To 250, Deduct	-1.65	
			For >250 To 500, Deduct	-2.06	
			For >500, Deduct	-2.48	
05 05 23 00-0669	EA	1/4"	Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.74	
			For >100 To 250, Deduct	-1.69	
			For >250 To 500, Deduct	-2.12	
			For >500, Deduct	-2.54	
05 05 23 00-0670	EA	1/4"	Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.06	
			For >100 To 250, Deduct	-1.69	
			For >250 To 500, Deduct	-2.12	
			For >500, Deduct	-2.54	
05 05 23 00-0671	EA	1/4"	Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.47	
			For >100 To 250, Deduct	-1.69	
			For >250 To 500, Deduct	-2.12	
			For >500, Deduct	-2.54	
05 05 23 00-0672			5/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0654).....		
05 05 23 00-0673	EA	5/16"	Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.79	
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-1.90	
			For >500, Deduct	-2.28	
05 05 23 00-0674	EA	5/16"	Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.16	
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-1.90	
			For >500, Deduct	-2.28	
05 05 23 00-0675	EA	5/16"	Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.19	
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-1.90	
			For >500, Deduct	-2.28	
05 05 23 00-0676	EA	5/16"	Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.20	
			For >100 To 250, Deduct	-1.52	
			For >250 To 500, Deduct	-1.90	
			For >500, Deduct	-2.28	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0677 EA 5/16" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.58	
For>100 To 250, Deduct	-1.56	
For>250 To 500, Deduct	-1.96	
For>500, Deduct	-2.35	
05 05 23 00-0678 EA 5/16" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.92	
For>100 To 250, Deduct	-1.56	
For>250 To 500, Deduct	-1.96	
For>500, Deduct	-2.35	
05 05 23 00-0679 EA 5/16" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.99	
For>100 To 250, Deduct	-1.56	
For>250 To 500, Deduct	-1.96	
For>500, Deduct	-2.35	
05 05 23 00-0680 EA 5/16" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.30	
For>100 To 250, Deduct	-1.61	
For>250 To 500, Deduct	-2.01	
For>500, Deduct	-2.41	
05 05 23 00-0681 EA 5/16" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.34	
For>100 To 250, Deduct	-1.61	
For>250 To 500, Deduct	-2.01	
For>500, Deduct	-2.41	
05 05 23 00-0682 EA 5/16" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.61	
For>100 To 250, Deduct	-1.61	
For>250 To 500, Deduct	-2.01	
For>500, Deduct	-2.41	
05 05 23 00-0683 EA 5/16" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.90	
For>100 To 250, Deduct	-1.65	
For>250 To 500, Deduct	-2.06	
For>500, Deduct	-2.48	
05 05 23 00-0684 EA 5/16" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.00	
For>100 To 250, Deduct	-1.65	
For>250 To 500, Deduct	-2.06	
For>500, Deduct	-2.48	
05 05 23 00-0685 EA 5/16" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.27	
For>100 To 250, Deduct	-1.65	
For>250 To 500, Deduct	-2.06	
For>500, Deduct	-2.48	
05 05 23 00-0686 EA 5/16" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.02	
For>100 To 250, Deduct	-1.69	
For>250 To 500, Deduct	-2.12	
For>500, Deduct	-2.54	
05 05 23 00-0687 EA 5/16" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.44	
For>100 To 250, Deduct	-1.69	
For>250 To 500, Deduct	-2.12	
For>500, Deduct	-2.54	
05 05 23 00-0688 EA 5/16" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.84	
For>100 To 250, Deduct	-1.69	
For>250 To 500, Deduct	-2.12	
For>500, Deduct	-2.54	
05 05 23 00-0689 3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0654)		
05 05 23 00-0690 EA 3/8" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.90	
For>100 To 250, Deduct	-1.52	
For>250 To 500, Deduct	-1.90	
For>500, Deduct	-2.28	
05 05 23 00-0691 EA 3/8" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.99	
For>100 To 250, Deduct	-1.52	
For>250 To 500, Deduct	-1.90	
For>500, Deduct	-2.28	
05 05 23 00-0692 EA 3/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.08	
For>100 To 250, Deduct	-1.52	
For>250 To 500, Deduct	-1.90	
For>500, Deduct	-2.28	
05 05 23 00-0693 EA 3/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.30	
For>100 To 250, Deduct	-1.52	
For>250 To 500, Deduct	-1.90	
For>500, Deduct	-2.28	
05 05 23 00-0694 EA 3/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.61	
For>100 To 250, Deduct	-1.56	
For>250 To 500, Deduct	-1.96	
For>500, Deduct	-2.35	
05 05 23 00-0695 EA 3/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.79	
For>100 To 250, Deduct	-1.56	
For>250 To 500, Deduct	-1.96	
For>500, Deduct	-2.35	
05 05 23 00-0696 EA 3/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.92	
For>100 To 250, Deduct	-1.56	
For>250 To 500, Deduct	-1.96	
For>500, Deduct	-2.35	
05 05 23 00-0697 EA 3/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.32	
For>100 To 250, Deduct	-1.61	
For>250 To 500, Deduct	-2.01	
For>500, Deduct	-2.41	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0698	EA	3/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	9.42		
		For >100 To 250, Deduct	-1.61		
		For >250 To 500, Deduct	-2.01		
		For >500, Deduct	-2.41		
05 05 23 00-0699	EA	3/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	9.64		
		For >100 To 250, Deduct	-1.61		
		For >250 To 500, Deduct	-2.01		
		For >500, Deduct	-2.41		
05 05 23 00-0700	EA	3/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	9.95		
		For >100 To 250, Deduct	-1.65		
		For >250 To 500, Deduct	-2.06		
		For >500, Deduct	-2.48		
05 05 23 00-0701	EA	3/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.26		
		For >100 To 250, Deduct	-1.65		
		For >250 To 500, Deduct	-2.06		
		For >500, Deduct	-2.48		
05 05 23 00-0702	EA	3/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.31		
		For >100 To 250, Deduct	-1.65		
		For >250 To 500, Deduct	-2.06		
		For >500, Deduct	-2.48		
05 05 23 00-0703	EA	3/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.55		
		For >100 To 250, Deduct	-1.69		
		For >250 To 500, Deduct	-2.12		
		For >500, Deduct	-2.54		
05 05 23 00-0704	EA	3/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.58		
		For >100 To 250, Deduct	-1.69		
		For >250 To 500, Deduct	-2.12		
		For >500, Deduct	-2.54		
05 05 23 00-0705	EA	3/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.94		
		For >100 To 250, Deduct	-1.69		
		For >250 To 500, Deduct	-2.12		
		For >500, Deduct	-2.54		

05 05 23 00-0706 7/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0654)

05 05 23 00-0707	EA	7/16" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	9.53		
		For >100 To 250, Deduct	-1.74		
		For >250 To 500, Deduct	-2.17		
		For >500, Deduct	-2.61		
05 05 23 00-0708	EA	7/16" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	9.93		
		For >100 To 250, Deduct	-1.74		
		For >250 To 500, Deduct	-2.17		
		For >500, Deduct	-2.61		
05 05 23 00-0709	EA	7/16" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.24		
		For >100 To 250, Deduct	-1.74		
		For >250 To 500, Deduct	-2.17		
		For >500, Deduct	-2.61		
05 05 23 00-0710	EA	7/16" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.97		
		For >100 To 250, Deduct	-1.78		
		For >250 To 500, Deduct	-2.23		
		For >500, Deduct	-2.67		
05 05 23 00-0711	EA	7/16" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	10.99		
		For >100 To 250, Deduct	-1.78		
		For >250 To 500, Deduct	-2.23		
		For >500, Deduct	-2.67		
05 05 23 00-0712	EA	7/16" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.02		
		For >100 To 250, Deduct	-1.78		
		For >250 To 500, Deduct	-2.23		
		For >500, Deduct	-2.67		
05 05 23 00-0713	EA	7/16" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.50		
		For >100 To 250, Deduct	-1.82		
		For >250 To 500, Deduct	-2.28		
		For >500, Deduct	-2.74		
05 05 23 00-0714	EA	7/16" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	11.78		
		For >100 To 250, Deduct	-1.82		
		For >250 To 500, Deduct	-2.28		
		For >500, Deduct	-2.74		
05 05 23 00-0715	EA	7/16" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	12.04		
		For >100 To 250, Deduct	-1.82		
		For >250 To 500, Deduct	-2.28		
		For >500, Deduct	-2.74		
05 05 23 00-0716	EA	7/16" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	12.55		
		For >100 To 250, Deduct	-1.87		
		For >250 To 500, Deduct	-2.34		
		For >500, Deduct	-2.80		
05 05 23 00-0717	EA	7/16" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	12.84		
		For >100 To 250, Deduct	-1.87		
		For >250 To 500, Deduct	-2.34		
		For >500, Deduct	-2.80		

05 05 23 00-0718 1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0654)

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0719 EA 1/2" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.36	
For>100 To 250, Deduct	-1.74	
For>250 To 500, Deduct	-2.17	
For>500, Deduct	-2.61	
05 05 23 00-0720 EA 1/2" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.49	
For>100 To 250, Deduct	-1.74	
For>250 To 500, Deduct	-2.17	
For>500, Deduct	-2.61	
05 05 23 00-0721 EA 1/2" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.75	
For>100 To 250, Deduct	-1.74	
For>250 To 500, Deduct	-2.17	
For>500, Deduct	-2.61	
05 05 23 00-0722 EA 1/2" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.26	
For>100 To 250, Deduct	-1.78	
For>250 To 500, Deduct	-2.23	
For>500, Deduct	-2.67	
05 05 23 00-0723 EA 1/2" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.46	
For>100 To 250, Deduct	-1.78	
For>250 To 500, Deduct	-2.23	
For>500, Deduct	-2.67	
05 05 23 00-0724 EA 1/2" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.83	
For>100 To 250, Deduct	-1.78	
For>250 To 500, Deduct	-2.23	
For>500, Deduct	-2.67	
05 05 23 00-0725 EA 1/2" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.12	
For>100 To 250, Deduct	-1.82	
For>250 To 500, Deduct	-2.28	
For>500, Deduct	-2.74	
05 05 23 00-0726 EA 1/2" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.25	
For>100 To 250, Deduct	-1.82	
For>250 To 500, Deduct	-2.28	
For>500, Deduct	-2.74	
05 05 23 00-0727 EA 1/2" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.55	
For>100 To 250, Deduct	-1.82	
For>250 To 500, Deduct	-2.28	
For>500, Deduct	-2.74	
05 05 23 00-0728 EA 1/2" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.91	
For>100 To 250, Deduct	-1.87	
For>250 To 500, Deduct	-2.34	
For>500, Deduct	-2.80	
05 05 23 00-0729 EA 1/2" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.24	
For>100 To 250, Deduct	-1.87	
For>250 To 500, Deduct	-2.34	
For>500, Deduct	-2.80	
05 05 23 00-0730 EA 1/2" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.27	
For>100 To 250, Deduct	-1.87	
For>250 To 500, Deduct	-2.34	
For>500, Deduct	-2.80	
05 05 23 00-0731 EA 1/2" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.55	
For>100 To 250, Deduct	-1.91	
For>250 To 500, Deduct	-2.39	
For>500, Deduct	-2.87	
05 05 23 00-0732 EA 1/2" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.64	
For>100 To 250, Deduct	-1.91	
For>250 To 500, Deduct	-2.39	
For>500, Deduct	-2.87	
05 05 23 00-0733 EA 1/2" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.89	
For>100 To 250, Deduct	-1.91	
For>250 To 500, Deduct	-2.39	
For>500, Deduct	-2.87	
05 05 23 00-0734 EA 1/2" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.30	
For>100 To 250, Deduct	-1.96	
For>250 To 500, Deduct	-2.45	
For>500, Deduct	-2.93	
05 05 23 00-0735 EA 1/2" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.50	
For>100 To 250, Deduct	-1.96	
For>250 To 500, Deduct	-2.45	
For>500, Deduct	-2.93	
05 05 23 00-0736 EA 1/2" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.55	
For>100 To 250, Deduct	-1.96	
For>250 To 500, Deduct	-2.45	
For>500, Deduct	-2.93	
05 05 23 00-0737 EA 1/2" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.66	
For>100 To 250, Deduct	-1.96	
For>250 To 500, Deduct	-2.45	
For>500, Deduct	-2.93	
05 05 23 00-0738 5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0654)		
05 05 23 00-0739 EA 5/8" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.92	
For>100 To 250, Deduct	-1.96	
For>250 To 500, Deduct	-2.45	
For>500, Deduct	-2.93	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0740	EA		5/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.12	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.93	
05 05 23 00-0741	EA		5/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.26	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.93	
05 05 23 00-0742	EA		5/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.69	
			For >100 To 250, Deduct	-2.00	
			For >250 To 500, Deduct	-2.50	
			For >500, Deduct	-3.00	
05 05 23 00-0743	EA		5/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.99	
			For >100 To 250, Deduct	-2.00	
			For >250 To 500, Deduct	-2.50	
			For >500, Deduct	-3.00	
05 05 23 00-0744	EA		5/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.64	
			For >100 To 250, Deduct	-2.00	
			For >250 To 500, Deduct	-2.50	
			For >500, Deduct	-3.00	
05 05 23 00-0745	EA		5/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.97	
			For >100 To 250, Deduct	-2.04	
			For >250 To 500, Deduct	-2.55	
			For >500, Deduct	-3.06	
05 05 23 00-0746	EA		5/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.09	
			For >100 To 250, Deduct	-2.04	
			For >250 To 500, Deduct	-2.55	
			For >500, Deduct	-3.06	
05 05 23 00-0747	EA		5/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.29	
			For >100 To 250, Deduct	-2.04	
			For >250 To 500, Deduct	-2.55	
			For >500, Deduct	-3.06	
05 05 23 00-0748	EA		5/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.76	
			For >100 To 250, Deduct	-2.08	
			For >250 To 500, Deduct	-2.61	
			For >500, Deduct	-3.13	
05 05 23 00-0749	EA		5/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.00	
			For >100 To 250, Deduct	-2.08	
			For >250 To 500, Deduct	-2.61	
			For >500, Deduct	-3.13	
05 05 23 00-0750	EA		5/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.68	
			For >100 To 250, Deduct	-2.08	
			For >250 To 500, Deduct	-2.61	
			For >500, Deduct	-3.13	
05 05 23 00-0751	EA		5/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.94	
			For >100 To 250, Deduct	-2.13	
			For >250 To 500, Deduct	-2.66	
			For >500, Deduct	-3.19	
05 05 23 00-0752	EA		5/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.13	
			For >100 To 250, Deduct	-2.13	
			For >250 To 500, Deduct	-2.66	
			For >500, Deduct	-3.19	
05 05 23 00-0753	EA		5/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.48	
			For >100 To 250, Deduct	-2.13	
			For >250 To 500, Deduct	-2.66	
			For >500, Deduct	-3.19	
05 05 23 00-0754	EA		5/8" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.20	
			For >100 To 250, Deduct	-2.17	
			For >250 To 500, Deduct	-2.72	
			For >500, Deduct	-3.26	
05 05 23 00-0755	EA		5/8" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.76	
			For >100 To 250, Deduct	-2.17	
			For >250 To 500, Deduct	-2.72	
			For >500, Deduct	-3.26	
05 05 23 00-0756	EA		5/8" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.05	
			For >100 To 250, Deduct	-2.17	
			For >250 To 500, Deduct	-2.72	
			For >500, Deduct	-3.26	
05 05 23 00-0757	EA		5/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.14	
			For >100 To 250, Deduct	-2.17	
			For >250 To 500, Deduct	-2.72	
			For >500, Deduct	-3.26	
05 05 23 00-0758			3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0654)		
05 05 23 00-0759	EA		3/4" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.88	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.93	
05 05 23 00-0760	EA		3/4" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.92	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.93	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0761	EA	3/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	12.17		
		For >100 To 250, Deduct	-1.96		
		For >250 To 500, Deduct	-2.45		
		For >500, Deduct	-2.93		
05 05 23 00-0762	EA	3/4" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	12.93		
		For >100 To 250, Deduct	-2.00		
		For >250 To 500, Deduct	-2.50		
		For >500, Deduct	-3.00		
05 05 23 00-0763	EA	3/4" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	13.85		
		For >100 To 250, Deduct	-2.00		
		For >250 To 500, Deduct	-2.50		
		For >500, Deduct	-3.00		
05 05 23 00-0764	EA	3/4" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	14.45		
		For >100 To 250, Deduct	-2.00		
		For >250 To 500, Deduct	-2.50		
		For >500, Deduct	-3.00		
05 05 23 00-0765	EA	3/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	14.99		
		For >100 To 250, Deduct	-2.04		
		For >250 To 500, Deduct	-2.55		
		For >500, Deduct	-3.06		
05 05 23 00-0766	EA	3/4" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	15.04		
		For >100 To 250, Deduct	-2.04		
		For >250 To 500, Deduct	-2.55		
		For >500, Deduct	-3.06		
05 05 23 00-0767	EA	3/4" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	15.17		
		For >100 To 250, Deduct	-2.04		
		For >250 To 500, Deduct	-2.55		
		For >500, Deduct	-3.06		
05 05 23 00-0768	EA	3/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	15.46		
		For >100 To 250, Deduct	-2.08		
		For >250 To 500, Deduct	-2.61		
		For >500, Deduct	-3.13		
05 05 23 00-0769	EA	3/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	16.25		
		For >100 To 250, Deduct	-2.08		
		For >250 To 500, Deduct	-2.61		
		For >500, Deduct	-3.13		
05 05 23 00-0770	EA	3/4" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	16.58		
		For >100 To 250, Deduct	-2.08		
		For >250 To 500, Deduct	-2.61		
		For >500, Deduct	-3.13		
05 05 23 00-0771	EA	3/4" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	17.43		
		For >100 To 250, Deduct	-2.13		
		For >250 To 500, Deduct	-2.66		
		For >500, Deduct	-3.19		
05 05 23 00-0772	EA	3/4" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	17.54		
		For >100 To 250, Deduct	-2.13		
		For >250 To 500, Deduct	-2.66		
		For >500, Deduct	-3.19		
05 05 23 00-0773	EA	3/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	17.86		
		For >100 To 250, Deduct	-2.13		
		For >250 To 500, Deduct	-2.66		
		For >500, Deduct	-3.19		
05 05 23 00-0774	EA	3/4" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	18.56		
		For >100 To 250, Deduct	-2.17		
		For >250 To 500, Deduct	-2.72		
		For >500, Deduct	-3.26		
05 05 23 00-0775	EA	3/4" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	18.90		
		For >100 To 250, Deduct	-2.17		
		For >250 To 500, Deduct	-2.72		
		For >500, Deduct	-3.26		
05 05 23 00-0776	EA	3/4" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	19.09		
		For >100 To 250, Deduct	-2.17		
		For >250 To 500, Deduct	-2.72		
		For >500, Deduct	-3.26		
05 05 23 00-0777	EA	3/4" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	19.18		
		For >100 To 250, Deduct	-2.17		
		For >250 To 500, Deduct	-2.72		
		For >500, Deduct	-3.26		
05 05 23 00-0778		7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts			
		(05 05 23 00-0654)			
05 05 23 00-0779	EA	7/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	14.88		
		For >100 To 250, Deduct	-2.17		
		For >250 To 500, Deduct	-2.72		
		For >500, Deduct	-3.26		
05 05 23 00-0780	EA	7/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	15.27		
		For >100 To 250, Deduct	-2.17		
		For >250 To 500, Deduct	-2.72		
		For >500, Deduct	-3.26		
05 05 23 00-0781	EA	7/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt	15.70		
		For >100 To 250, Deduct	-2.22		
		For >250 To 500, Deduct	-2.77		
		For >500, Deduct	-3.32		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0782	EA		7/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.68	
			For >100 To 250, Deduct	-2.22	
			For >250 To 500, Deduct	-2.77	
			For >500, Deduct	-3.32	
05 05 23 00-0783	EA		7/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.98	
			For >100 To 250, Deduct	-2.22	
			For >250 To 500, Deduct	-2.77	
			For >500, Deduct	-3.32	
05 05 23 00-0784	EA		7/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.58	
			For >100 To 250, Deduct	-2.26	
			For >250 To 500, Deduct	-2.83	
			For >500, Deduct	-3.39	
05 05 23 00-0785	EA		7/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.00	
			For >100 To 250, Deduct	-2.26	
			For >250 To 500, Deduct	-2.83	
			For >500, Deduct	-3.39	
05 05 23 00-0786	EA		7/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.53	
			For >100 To 250, Deduct	-2.26	
			For >250 To 500, Deduct	-2.83	
			For >500, Deduct	-3.39	
05 05 23 00-0787	EA		7/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.11	
			For >100 To 250, Deduct	-2.30	
			For >250 To 500, Deduct	-2.88	
			For >500, Deduct	-3.45	
05 05 23 00-0788	EA		7/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.52	
			For >100 To 250, Deduct	-2.30	
			For >250 To 500, Deduct	-2.88	
			For >500, Deduct	-3.45	
05 05 23 00-0789	EA		7/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.80	
			For >100 To 250, Deduct	-2.30	
			For >250 To 500, Deduct	-2.88	
			For >500, Deduct	-3.45	
05 05 23 00-0790	EA		7/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.48	
			For >100 To 250, Deduct	-2.35	
			For >250 To 500, Deduct	-2.93	
			For >500, Deduct	-3.52	
05 05 23 00-0791	EA		7/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.25	
			For >100 To 250, Deduct	-2.35	
			For >250 To 500, Deduct	-2.93	
			For >500, Deduct	-3.52	
05 05 23 00-0792	EA		7/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.43	
			For >100 To 250, Deduct	-2.35	
			For >250 To 500, Deduct	-2.93	
			For >500, Deduct	-3.52	
05 05 23 00-0793	EA		7/8" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.86	
			For >100 To 250, Deduct	-2.39	
			For >250 To 500, Deduct	-2.99	
			For >500, Deduct	-3.59	
05 05 23 00-0794	EA		7/8" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	26.28	
			For >100 To 250, Deduct	-2.39	
			For >250 To 500, Deduct	-2.99	
			For >500, Deduct	-3.59	
05 05 23 00-0795	EA		7/8" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	26.81	
			For >100 To 250, Deduct	-2.39	
			For >250 To 500, Deduct	-2.99	
			For >500, Deduct	-3.59	
05 05 23 00-0796	EA		7/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.31	
			For >100 To 250, Deduct	-2.39	
			For >250 To 500, Deduct	-2.99	
			For >500, Deduct	-3.59	
05 05 23 00-0797			1" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0654)		
05 05 23 00-0798	EA		1" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.55	
			For >100 To 250, Deduct	-2.17	
			For >250 To 500, Deduct	-2.72	
			For >500, Deduct	-3.26	
05 05 23 00-0799	EA		1" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.89	
			For >100 To 250, Deduct	-2.22	
			For >250 To 500, Deduct	-2.77	
			For >500, Deduct	-3.32	
05 05 23 00-0800	EA		1" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.60	
			For >100 To 250, Deduct	-2.22	
			For >250 To 500, Deduct	-2.77	
			For >500, Deduct	-3.32	
05 05 23 00-0801	EA		1" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.16	
			For >100 To 250, Deduct	-2.22	
			For >250 To 500, Deduct	-2.77	
			For >500, Deduct	-3.32	
05 05 23 00-0802	EA		1" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.66	
			For >100 To 250, Deduct	-2.26	
			For >250 To 500, Deduct	-2.83	
			For >500, Deduct	-3.39	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0803 EA 1" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.95	
For >100 To 250, Deduct	-2.26	
For >250 To 500, Deduct	-2.83	
For >500, Deduct	-3.39	
05 05 23 00-0804 EA 1" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.78	
For >100 To 250, Deduct	-2.26	
For >250 To 500, Deduct	-2.83	
For >500, Deduct	-3.39	
05 05 23 00-0805 EA 1" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.07	
For >100 To 250, Deduct	-2.30	
For >250 To 500, Deduct	-2.88	
For >500, Deduct	-3.45	
05 05 23 00-0806 EA 1" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.38	
For >100 To 250, Deduct	-2.30	
For >250 To 500, Deduct	-2.88	
For >500, Deduct	-3.45	
05 05 23 00-0807 EA 1" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.20	
For >100 To 250, Deduct	-2.30	
For >250 To 500, Deduct	-2.88	
For >500, Deduct	-3.45	
05 05 23 00-0808 EA 1" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.95	
For >100 To 250, Deduct	-2.35	
For >250 To 500, Deduct	-2.93	
For >500, Deduct	-3.52	
05 05 23 00-0809 EA 1" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.12	
For >100 To 250, Deduct	-2.35	
For >250 To 500, Deduct	-2.93	
For >500, Deduct	-3.52	
05 05 23 00-0810 EA 1" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	28.29	
For >100 To 250, Deduct	-2.35	
For >250 To 500, Deduct	-2.93	
For >500, Deduct	-3.52	
05 05 23 00-0811 EA 1" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	28.86	
For >100 To 250, Deduct	-2.39	
For >250 To 500, Deduct	-2.99	
For >500, Deduct	-3.59	
05 05 23 00-0812 EA 1" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	29.81	
For >100 To 250, Deduct	-2.39	
For >250 To 500, Deduct	-2.99	
For >500, Deduct	-3.59	
05 05 23 00-0813 EA 1" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	30.53	
For >100 To 250, Deduct	-2.39	
For >250 To 500, Deduct	-2.99	
For >500, Deduct	-3.59	
05 05 23 00-0814 EA 1" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	31.59	
For >100 To 250, Deduct	-2.39	
For >250 To 500, Deduct	-2.99	
For >500, Deduct	-3.59	
05 05 23 00-0815 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0097)		
05 05 23 00-0816 1/4" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0815)		
05 05 23 00-0817 EA 1/4" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	7.96	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0818 EA 1/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	8.10	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0819 EA 1/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	8.28	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0820 EA 1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	8.46	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0821 EA 1/4" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	8.86	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.96	
For >500, Deduct	-2.35	
05 05 23 00-0822 EA 1/4" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	9.14	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.96	
For >500, Deduct	-2.35	
05 05 23 00-0823 EA 1/4" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	9.47	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.96	
For >500, Deduct	-2.35	
05 05 23 00-0824 EA 1/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	9.93	
For >100 To 250, Deduct	-1.61	
For >250 To 500, Deduct	-2.01	
For >500, Deduct	-2.41	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0825	EA	1/4" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.34		
		For >100 To 250, Deduct	-1.61		
		For >250 To 500, Deduct	-2.01		
		For >500, Deduct	-2.41		
05 05 23 00-0826	EA	1/4" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.71		
		For >100 To 250, Deduct	-1.61		
		For >250 To 500, Deduct	-2.01		
		For >500, Deduct	-2.41		
05 05 23 00-0827	EA	1/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.23		
		For >100 To 250, Deduct	-1.65		
		For >250 To 500, Deduct	-2.06		
		For >500, Deduct	-2.48		
05 05 23 00-0828	EA	1/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.84		
		For >100 To 250, Deduct	-1.65		
		For >250 To 500, Deduct	-2.06		
		For >500, Deduct	-2.48		
05 05 23 00-0829	EA	1/4" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.19		
		For >100 To 250, Deduct	-1.65		
		For >250 To 500, Deduct	-2.06		
		For >500, Deduct	-2.48		
05 05 23 00-0830	EA	1/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.00		
		For >100 To 250, Deduct	-1.69		
		For >250 To 500, Deduct	-2.12		
		For >500, Deduct	-2.54		
05 05 23 00-0831	EA	1/4" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.35		
		For >100 To 250, Deduct	-1.69		
		For >250 To 500, Deduct	-2.12		
		For >500, Deduct	-2.54		
05 05 23 00-0832	EA	1/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.18		
		For >100 To 250, Deduct	-1.69		
		For >250 To 500, Deduct	-2.12		
		For >500, Deduct	-2.54		
05 05 23 00-0833		5/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0815)			
05 05 23 00-0834	EA	5/16" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.22		
		For >100 To 250, Deduct	-1.52		
		For >250 To 500, Deduct	-1.90		
		For >500, Deduct	-2.28		
05 05 23 00-0835	EA	5/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.34		
		For >100 To 250, Deduct	-1.52		
		For >250 To 500, Deduct	-1.90		
		For >500, Deduct	-2.28		
05 05 23 00-0836	EA	5/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.61		
		For >100 To 250, Deduct	-1.52		
		For >250 To 500, Deduct	-1.90		
		For >500, Deduct	-2.28		
05 05 23 00-0837	EA	5/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.82		
		For >100 To 250, Deduct	-1.52		
		For >250 To 500, Deduct	-1.90		
		For >500, Deduct	-2.28		
05 05 23 00-0838	EA	5/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.42		
		For >100 To 250, Deduct	-1.56		
		For >250 To 500, Deduct	-1.96		
		For >500, Deduct	-2.35		
05 05 23 00-0839	EA	5/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.55		
		For >100 To 250, Deduct	-1.56		
		For >250 To 500, Deduct	-1.96		
		For >500, Deduct	-2.35		
05 05 23 00-0840	EA	5/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.24		
		For >100 To 250, Deduct	-1.56		
		For >250 To 500, Deduct	-1.96		
		For >500, Deduct	-2.35		
05 05 23 00-0841	EA	5/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.94		
		For >100 To 250, Deduct	-1.61		
		For >250 To 500, Deduct	-2.01		
		For >500, Deduct	-2.41		
05 05 23 00-0842	EA	5/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.71		
		For >100 To 250, Deduct	-1.61		
		For >250 To 500, Deduct	-2.01		
		For >500, Deduct	-2.41		
05 05 23 00-0843	EA	5/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.09		
		For >100 To 250, Deduct	-1.61		
		For >250 To 500, Deduct	-2.01		
		For >500, Deduct	-2.41		
05 05 23 00-0844	EA	5/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.47		
		For >100 To 250, Deduct	-1.65		
		For >250 To 500, Deduct	-2.06		
		For >500, Deduct	-2.48		
05 05 23 00-0845	EA	5/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.39		
		For >100 To 250, Deduct	-1.65		
		For >250 To 500, Deduct	-2.06		
		For >500, Deduct	-2.48		

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0846 EA 5/16" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.77	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.48	
05 05 23 00-0847 EA 5/16" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	27.07	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0848 3/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0815)		
05 05 23 00-0849 EA 3/8" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.55	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0850 EA 3/8" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	8.71	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0851 EA 3/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.12	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0852 EA 3/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	9.65	
For >100 To 250, Deduct	-1.52	
For >250 To 500, Deduct	-1.90	
For >500, Deduct	-2.28	
05 05 23 00-0853 EA 3/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.12	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.96	
For >500, Deduct	-2.35	
05 05 23 00-0854 EA 3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.55	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.96	
For >500, Deduct	-2.35	
05 05 23 00-0855 EA 3/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.10	
For >100 To 250, Deduct	-1.56	
For >250 To 500, Deduct	-1.96	
For >500, Deduct	-2.35	
05 05 23 00-0856 EA 3/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.82	
For >100 To 250, Deduct	-1.61	
For >250 To 500, Deduct	-2.01	
For >500, Deduct	-2.41	
05 05 23 00-0857 EA 3/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.48	
For >100 To 250, Deduct	-1.61	
For >250 To 500, Deduct	-2.01	
For >500, Deduct	-2.41	
05 05 23 00-0858 EA 3/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.92	
For >100 To 250, Deduct	-1.61	
For >250 To 500, Deduct	-2.01	
For >500, Deduct	-2.41	
05 05 23 00-0859 EA 3/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.30	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.48	
05 05 23 00-0860 EA 3/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.49	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.48	
05 05 23 00-0861 EA 3/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.02	
For >100 To 250, Deduct	-1.65	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.48	
05 05 23 00-0862 EA 3/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.84	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0863 EA 3/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.20	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0864 EA 3/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.74	
For >100 To 250, Deduct	-1.69	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-2.54	
05 05 23 00-0865 7/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0815)		
05 05 23 00-0866 EA 7/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.97	
For >100 To 250, Deduct	-1.74	
For >250 To 500, Deduct	-2.17	
For >500, Deduct	-2.61	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0867	EA		7/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.15	
			For >100 To 250, Deduct	-1.74	
			For >250 To 500, Deduct	-2.17	
			For >500, Deduct	-2.61	
05 05 23 00-0868	EA		7/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.82	
			For >100 To 250, Deduct	-1.74	
			For >250 To 500, Deduct	-2.17	
			For >500, Deduct	-2.61	
05 05 23 00-0869	EA		7/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.43	
			For >100 To 250, Deduct	-1.78	
			For >250 To 500, Deduct	-2.23	
			For >500, Deduct	-2.67	
05 05 23 00-0870	EA		7/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.24	
			For >100 To 250, Deduct	-1.78	
			For >250 To 500, Deduct	-2.23	
			For >500, Deduct	-2.67	
05 05 23 00-0871	EA		7/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.58	
			For >100 To 250, Deduct	-1.78	
			For >250 To 500, Deduct	-2.23	
			For >500, Deduct	-2.67	
05 05 23 00-0872	EA		7/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.42	
			For >100 To 250, Deduct	-1.82	
			For >250 To 500, Deduct	-2.28	
			For >500, Deduct	-2.74	
05 05 23 00-0873	EA		7/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.99	
			For >100 To 250, Deduct	-1.82	
			For >250 To 500, Deduct	-2.28	
			For >500, Deduct	-2.74	
05 05 23 00-0874	EA		7/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.68	
			For >100 To 250, Deduct	-1.82	
			For >250 To 500, Deduct	-2.28	
			For >500, Deduct	-2.74	
05 05 23 00-0875	EA		7/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.05	
			For >100 To 250, Deduct	-1.87	
			For >250 To 500, Deduct	-2.34	
			For >500, Deduct	-2.80	
05 05 23 00-0876	EA		7/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	22.45	
			For >100 To 250, Deduct	-1.87	
			For >250 To 500, Deduct	-2.34	
			For >500, Deduct	-2.80	
05 05 23 00-0877	EA		7/16" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	22.78	
			For >100 To 250, Deduct	-1.87	
			For >250 To 500, Deduct	-2.34	
			For >500, Deduct	-2.80	
05 05 23 00-0878	EA		7/16" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.29	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.39	
			For >500, Deduct	-2.87	
05 05 23 00-0879			1/2" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0815)		
05 05 23 00-0880	EA		1/2" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	10.96	
			For >100 To 250, Deduct	-1.74	
			For >250 To 500, Deduct	-2.17	
			For >500, Deduct	-2.61	
05 05 23 00-0881	EA		1/2" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	11.15	
			For >100 To 250, Deduct	-1.74	
			For >250 To 500, Deduct	-2.17	
			For >500, Deduct	-2.61	
05 05 23 00-0882	EA		1/2" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.20	
			For >100 To 250, Deduct	-1.74	
			For >250 To 500, Deduct	-2.17	
			For >500, Deduct	-2.61	
05 05 23 00-0883	EA		1/2" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	12.84	
			For >100 To 250, Deduct	-1.78	
			For >250 To 500, Deduct	-2.23	
			For >500, Deduct	-2.67	
05 05 23 00-0884	EA		1/2" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.80	
			For >100 To 250, Deduct	-1.78	
			For >250 To 500, Deduct	-2.23	
			For >500, Deduct	-2.67	
05 05 23 00-0885	EA		1/2" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.31	
			For >100 To 250, Deduct	-1.78	
			For >250 To 500, Deduct	-2.23	
			For >500, Deduct	-2.67	
05 05 23 00-0886	EA		1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.17	
			For >100 To 250, Deduct	-1.82	
			For >250 To 500, Deduct	-2.28	
			For >500, Deduct	-2.74	
05 05 23 00-0887	EA		1/2" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	15.63	
			For >100 To 250, Deduct	-1.82	
			For >250 To 500, Deduct	-2.28	
			For >500, Deduct	-2.74	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0888	EA	1/2" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.14	
		For >100 To 250, Deduct	-1.82	
		For >250 To 500, Deduct	-2.28	
		For >500, Deduct	-2.74	
05 05 23 00-0889	EA	1/2" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.06	
		For >100 To 250, Deduct	-1.87	
		For >250 To 500, Deduct	-2.34	
		For >500, Deduct	-2.80	
05 05 23 00-0890	EA	1/2" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.19	
		For >100 To 250, Deduct	-1.87	
		For >250 To 500, Deduct	-2.34	
		For >500, Deduct	-2.80	
05 05 23 00-0891	EA	1/2" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.47	
		For >100 To 250, Deduct	-1.87	
		For >250 To 500, Deduct	-2.34	
		For >500, Deduct	-2.80	
05 05 23 00-0892	EA	1/2" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.60	
		For >100 To 250, Deduct	-1.91	
		For >250 To 500, Deduct	-2.39	
		For >500, Deduct	-2.87	
05 05 23 00-0893	EA	1/2" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.36	
		For >100 To 250, Deduct	-1.91	
		For >250 To 500, Deduct	-2.39	
		For >500, Deduct	-2.87	
05 05 23 00-0894	EA	1/2" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.57	
		For >100 To 250, Deduct	-1.91	
		For >250 To 500, Deduct	-2.39	
		For >500, Deduct	-2.87	
05 05 23 00-0895	EA	1/2" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	31.71	
		For >100 To 250, Deduct	-1.96	
		For >250 To 500, Deduct	-2.45	
		For >500, Deduct	-2.93	
05 05 23 00-0896	EA	1/2" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	32.19	
		For >100 To 250, Deduct	-1.96	
		For >250 To 500, Deduct	-2.45	
		For >500, Deduct	-2.93	
05 05 23 00-0897	EA	1/2" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	35.53	
		For >100 To 250, Deduct	-1.96	
		For >250 To 500, Deduct	-2.45	
		For >500, Deduct	-2.93	
05 05 23 00-0898	EA	1/2" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	38.85	
		For >100 To 250, Deduct	-1.96	
		For >250 To 500, Deduct	-2.45	
		For >500, Deduct	-2.93	
05 05 23 00-0899		9/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0815)		
05 05 23 00-0900	EA	9/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.49	
		For >100 To 250, Deduct	-1.74	
		For >250 To 500, Deduct	-2.17	
		For >500, Deduct	-2.61	
05 05 23 00-0901	EA	9/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.67	
		For >100 To 250, Deduct	-1.74	
		For >250 To 500, Deduct	-2.17	
		For >500, Deduct	-2.61	
05 05 23 00-0902	EA	9/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	22.51	
		For >100 To 250, Deduct	-1.74	
		For >250 To 500, Deduct	-2.17	
		For >500, Deduct	-2.61	
05 05 23 00-0903	EA	9/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.49	
		For >100 To 250, Deduct	-1.78	
		For >250 To 500, Deduct	-2.23	
		For >500, Deduct	-2.67	
05 05 23 00-0904	EA	9/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.86	
		For >100 To 250, Deduct	-1.78	
		For >250 To 500, Deduct	-2.23	
		For >500, Deduct	-2.67	
05 05 23 00-0905	EA	9/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	27.24	
		For >100 To 250, Deduct	-1.78	
		For >250 To 500, Deduct	-2.23	
		For >500, Deduct	-2.67	
05 05 23 00-0906	EA	9/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	30.95	
		For >100 To 250, Deduct	-1.82	
		For >250 To 500, Deduct	-2.28	
		For >500, Deduct	-2.74	
05 05 23 00-0907	EA	9/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	31.49	
		For >100 To 250, Deduct	-1.82	
		For >250 To 500, Deduct	-2.28	
		For >500, Deduct	-2.74	
05 05 23 00-0908	EA	9/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	36.52	
		For >100 To 250, Deduct	-1.82	
		For >250 To 500, Deduct	-2.28	
		For >500, Deduct	-2.74	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0909	EA		9/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	39.10	
			For >100 To 250, Deduct	-1.87	
			For >250 To 500, Deduct	-2.34	
			For >500, Deduct	-2.80	
05 05 23 00-0910	EA		9/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	41.79	
			For >100 To 250, Deduct	-1.87	
			For >250 To 500, Deduct	-2.34	
			For >500, Deduct	-2.80	
05 05 23 00-0911			5/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0915)		
05 05 23 00-0912	EA		5/8" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	13.91	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.93	
05 05 23 00-0913	EA		5/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	14.41	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.93	
05 05 23 00-0914	EA		5/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.50	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.93	
05 05 23 00-0915	EA		5/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.06	
			For >100 To 250, Deduct	-2.00	
			For >250 To 500, Deduct	-2.50	
			For >500, Deduct	-3.00	
05 05 23 00-0916	EA		5/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.05	
			For >100 To 250, Deduct	-2.00	
			For >250 To 500, Deduct	-2.50	
			For >500, Deduct	-3.00	
05 05 23 00-0917	EA		5/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	19.47	
			For >100 To 250, Deduct	-2.00	
			For >250 To 500, Deduct	-2.50	
			For >500, Deduct	-3.00	
05 05 23 00-0918	EA		5/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.48	
			For >100 To 250, Deduct	-2.04	
			For >250 To 500, Deduct	-2.55	
			For >500, Deduct	-3.06	
05 05 23 00-0919	EA		5/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.50	
			For >100 To 250, Deduct	-2.04	
			For >250 To 500, Deduct	-2.55	
			For >500, Deduct	-3.06	
05 05 23 00-0920	EA		5/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.09	
			For >100 To 250, Deduct	-2.04	
			For >250 To 500, Deduct	-2.55	
			For >500, Deduct	-3.06	
05 05 23 00-0921	EA		5/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	24.21	
			For >100 To 250, Deduct	-2.08	
			For >250 To 500, Deduct	-2.61	
			For >500, Deduct	-3.13	
05 05 23 00-0922	EA		5/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.65	
			For >100 To 250, Deduct	-2.08	
			For >250 To 500, Deduct	-2.61	
			For >500, Deduct	-3.13	
05 05 23 00-0923	EA		5/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	30.91	
			For >100 To 250, Deduct	-2.08	
			For >250 To 500, Deduct	-2.61	
			For >500, Deduct	-3.13	
05 05 23 00-0924	EA		5/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	34.01	
			For >100 To 250, Deduct	-2.13	
			For >250 To 500, Deduct	-2.66	
			For >500, Deduct	-3.19	
05 05 23 00-0925	EA		5/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	36.39	
			For >100 To 250, Deduct	-2.13	
			For >250 To 500, Deduct	-2.66	
			For >500, Deduct	-3.19	
05 05 23 00-0926	EA		5/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	37.46	
			For >100 To 250, Deduct	-2.13	
			For >250 To 500, Deduct	-2.66	
			For >500, Deduct	-3.19	
05 05 23 00-0927	EA		5/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	42.08	
			For >100 To 250, Deduct	-2.17	
			For >250 To 500, Deduct	-2.72	
			For >500, Deduct	-3.26	
05 05 23 00-0928	EA		5/8" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	43.48	
			For >100 To 250, Deduct	-2.17	
			For >250 To 500, Deduct	-2.72	
			For >500, Deduct	-3.26	
05 05 23 00-0929	EA		5/8" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	49.74	
			For >100 To 250, Deduct	-2.17	
			For >250 To 500, Deduct	-2.72	
			For >500, Deduct	-3.26	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0930	EA		5/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	52.31	
			For >100 To 250, Deduct	-2.17	
			For >250 To 500, Deduct	-2.72	
			For >500, Deduct	-3.26	
05 05 23 00-0931 3/4" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0815)					
05 05 23 00-0932	EA		3/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt	16.19	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.93	
05 05 23 00-0933	EA		3/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	17.17	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.93	
05 05 23 00-0934	EA		3/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	18.46	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.93	
05 05 23 00-0935	EA		3/4" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	20.07	
			For >100 To 250, Deduct	-2.00	
			For >250 To 500, Deduct	-2.50	
			For >500, Deduct	-3.00	
05 05 23 00-0936	EA		3/4" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	21.49	
			For >100 To 250, Deduct	-2.00	
			For >250 To 500, Deduct	-2.50	
			For >500, Deduct	-3.00	
05 05 23 00-0937	EA		3/4" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.89	
			For >100 To 250, Deduct	-2.00	
			For >250 To 500, Deduct	-2.50	
			For >500, Deduct	-3.00	
05 05 23 00-0938	EA		3/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.53	
			For >100 To 250, Deduct	-2.04	
			For >250 To 500, Deduct	-2.55	
			For >500, Deduct	-3.06	
05 05 23 00-0939	EA		3/4" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	27.76	
			For >100 To 250, Deduct	-2.04	
			For >250 To 500, Deduct	-2.55	
			For >500, Deduct	-3.06	
05 05 23 00-0940	EA		3/4" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	29.54	
			For >100 To 250, Deduct	-2.04	
			For >250 To 500, Deduct	-2.55	
			For >500, Deduct	-3.06	
05 05 23 00-0941	EA		3/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	31.60	
			For >100 To 250, Deduct	-2.08	
			For >250 To 500, Deduct	-2.61	
			For >500, Deduct	-3.13	
05 05 23 00-0942	EA		3/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	33.67	
			For >100 To 250, Deduct	-2.08	
			For >250 To 500, Deduct	-2.61	
			For >500, Deduct	-3.13	
05 05 23 00-0943	EA		3/4" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	37.57	
			For >100 To 250, Deduct	-2.08	
			For >250 To 500, Deduct	-2.61	
			For >500, Deduct	-3.13	
05 05 23 00-0944	EA		3/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	48.14	
			For >100 To 250, Deduct	-2.13	
			For >250 To 500, Deduct	-2.66	
			For >500, Deduct	-3.19	
05 05 23 00-0945	EA		3/4" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	51.44	
			For >100 To 250, Deduct	-2.13	
			For >250 To 500, Deduct	-2.66	
			For >500, Deduct	-3.19	
05 05 23 00-0946	EA		3/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	58.51	
			For >100 To 250, Deduct	-2.13	
			For >250 To 500, Deduct	-2.66	
			For >500, Deduct	-3.19	
05 05 23 00-0947	EA		3/4" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	59.05	
			For >100 To 250, Deduct	-2.17	
			For >250 To 500, Deduct	-2.72	
			For >500, Deduct	-3.26	
05 05 23 00-0948	EA		3/4" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	60.17	
			For >100 To 250, Deduct	-2.17	
			For >250 To 500, Deduct	-2.72	
			For >500, Deduct	-3.26	
05 05 23 00-0949	EA		3/4" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	63.18	
			For >100 To 250, Deduct	-2.17	
			For >250 To 500, Deduct	-2.72	
			For >500, Deduct	-3.26	
05 05 23 00-0950	EA		3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	65.50	
			For >100 To 250, Deduct	-2.17	
			For >250 To 500, Deduct	-2.72	
			For >500, Deduct	-3.26	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0951			7/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0815)		
05 05 23 00-0952	EA		7/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	23.42	
			For >100 To 250, Deduct	-2.17	
			For >250 To 500, Deduct	-2.72	
			For >500, Deduct	-3.26	
05 05 23 00-0953	EA		7/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	25.86	
			For >100 To 250, Deduct	-2.17	
			For >250 To 500, Deduct	-2.72	
			For >500, Deduct	-3.26	
05 05 23 00-0954	EA		7/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	27.94	
			For >100 To 250, Deduct	-2.22	
			For >250 To 500, Deduct	-2.77	
			For >500, Deduct	-3.32	
05 05 23 00-0955	EA		7/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt	30.41	
			For >100 To 250, Deduct	-2.22	
			For >250 To 500, Deduct	-2.77	
			For >500, Deduct	-3.32	
05 05 23 00-0956	EA		7/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	31.22	
			For >100 To 250, Deduct	-2.22	
			For >250 To 500, Deduct	-2.77	
			For >500, Deduct	-3.32	
05 05 23 00-0957	EA		7/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt	33.48	
			For >100 To 250, Deduct	-2.26	
			For >250 To 500, Deduct	-2.83	
			For >500, Deduct	-3.39	
05 05 23 00-0958	EA		7/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	34.26	
			For >100 To 250, Deduct	-2.26	
			For >250 To 500, Deduct	-2.83	
			For >500, Deduct	-3.39	
05 05 23 00-0959	EA		7/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt	39.66	
			For >100 To 250, Deduct	-2.26	
			For >250 To 500, Deduct	-2.83	
			For >500, Deduct	-3.39	
05 05 23 00-0960	EA		7/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	40.67	
			For >100 To 250, Deduct	-2.30	
			For >250 To 500, Deduct	-2.88	
			For >500, Deduct	-3.45	
05 05 23 00-0961	EA		7/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt	42.75	
			For >100 To 250, Deduct	-2.30	
			For >250 To 500, Deduct	-2.88	
			For >500, Deduct	-3.45	
05 05 23 00-0962	EA		7/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	54.17	
			For >100 To 250, Deduct	-2.30	
			For >250 To 500, Deduct	-2.88	
			For >500, Deduct	-3.45	
05 05 23 00-0963	EA		7/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt	58.77	
			For >100 To 250, Deduct	-2.35	
			For >250 To 500, Deduct	-2.93	
			For >500, Deduct	-3.52	
05 05 23 00-0964	EA		7/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	63.90	
			For >100 To 250, Deduct	-2.35	
			For >250 To 500, Deduct	-2.93	
			For >500, Deduct	-3.52	
05 05 23 00-0965	EA		7/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt	68.02	
			For >100 To 250, Deduct	-2.35	
			For >250 To 500, Deduct	-2.93	
			For >500, Deduct	-3.52	
05 05 23 00-0966	EA		7/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	80.78	
			For >100 To 250, Deduct	-2.39	
			For >250 To 500, Deduct	-2.99	
			For >500, Deduct	-3.59	
05 05 23 00-0967	EA		7/8" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt	90.82	
			For >100 To 250, Deduct	-2.39	
			For >250 To 500, Deduct	-2.99	
			For >500, Deduct	-3.59	
05 05 23 00-0968	EA		7/8" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	95.47	
			For >100 To 250, Deduct	-2.39	
			For >250 To 500, Deduct	-2.99	
			For >500, Deduct	-3.59	
05 05 23 00-0969	EA		7/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt	100.10	
			For >100 To 250, Deduct	-2.39	
			For >250 To 500, Deduct	-2.99	
			For >500, Deduct	-3.59	
05 05 23 00-0970			1" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts (05 05 23 00-0815)		
05 05 23 00-0971	EA		1" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	29.33	
			For >100 To 250, Deduct	-2.17	
			For >250 To 500, Deduct	-2.72	
			For >500, Deduct	-3.26	
05 05 23 00-0972	EA		1" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt	31.12	
			For >100 To 250, Deduct	-2.17	
			For >250 To 500, Deduct	-2.72	
			For >500, Deduct	-3.26	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0973 EA 1" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	33.99 -2.22 -2.77 -3.32	
05 05 23 00-0974 EA 1" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	36.23 -2.22 -2.77 -3.32	
05 05 23 00-0975 EA 1" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	39.92 -2.22 -2.77 -3.32	
05 05 23 00-0976 EA 1" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	44.29 -2.26 -2.83 -3.39	
05 05 23 00-0977 EA 1" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	46.86 -2.26 -2.83 -3.39	
05 05 23 00-0978 EA 1" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	50.66 -2.26 -2.83 -3.39	
05 05 23 00-0979 EA 1" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	54.44 -2.30 -2.88 -3.45	
05 05 23 00-0980 EA 1" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	54.65 -2.30 -2.88 -3.45	
05 05 23 00-0981 EA 1" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	64.85 -2.30 -2.88 -3.45	
05 05 23 00-0982 EA 1" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	77.97 -2.35 -2.93 -3.52	
05 05 23 00-0983 EA 1" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	79.89 -2.35 -2.93 -3.52	
05 05 23 00-0984 EA 1" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	81.81 -2.35 -2.93 -3.52	
05 05 23 00-0985 EA 1" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	85.87 -2.39 -2.99 -3.59	
05 05 23 00-0986 EA 1" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	91.76 -2.39 -2.99 -3.59	
05 05 23 00-0987 EA 1" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	118.51 -2.39 -2.99 -3.59	
05 05 23 00-0988 EA 1" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	149.67 -2.39 -2.99 -3.59	
05 05 23 00-0989 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0997)		
05 05 23 00-0990 1/4" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)		
05 05 23 00-0991 EA 1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	8.23 -1.52 -1.90 -2.28	
05 05 23 00-0992 EA 1" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	8.51 -1.52 -1.90 -2.28	
05 05 23 00-0993 EA 1-1/2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	8.72 -1.52 -1.90 -2.28	
05 05 23 00-0994 EA 2" Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt For >100 To 250, Deduct For >250 To 500, Deduct For >500, Deduct	8.86 -1.52 -1.90 -2.28	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0995	EA	2-1/2"	Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	9.47 -1.56 -1.96 -2.35	
05 05 23 00-0996	EA	3"	Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	9.84 -1.56 -1.96 -2.35	
05 05 23 00-0997	EA	3-1/2"	Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	10.20 -1.56 -1.96 -2.35	
05 05 23 00-0998	EA	4"	Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	10.71 -1.61 -2.01 -2.41	
05 05 23 00-0999	EA	4-1/2"	Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	11.02 -1.61 -2.01 -2.41	
05 05 23 00-1000	EA	5"	Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	11.15 -1.61 -2.01 -2.41	
05 05 23 00-1001	EA	5-1/2"	Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	12.30 -1.65 -2.06 -2.48	
05 05 23 00-1002	EA	6"	Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	12.55 -1.65 -2.06 -2.48	
05 05 23 00-1003	EA	6-1/2"	Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	21.92 -1.65 -2.06 -2.48	
05 05 23 00-1004	EA	7"	Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	33.49 -1.69 -2.12 -2.54	
05 05 23 00-1005	EA	7-1/2"	Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	58.49 -1.69 -2.12 -2.54	
05 05 23 00-1006	EA	8"	Length x 1/4" Diameter, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	64.19 -1.69 -2.12 -2.54	
05 05 23 00-1007			5/16" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0999)		
05 05 23 00-1008	EA	5/16"	Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	8.62 -1.52 -1.90 -2.28	
05 05 23 00-1009	EA	5/16"	Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	8.93 -1.52 -1.90 -2.28	
05 05 23 00-1010	EA	5/16"	Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	9.47 -1.52 -1.90 -2.28	
05 05 23 00-1011	EA	5/16"	Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	9.88 -1.52 -1.90 -2.28	
05 05 23 00-1012	EA	5/16"	Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	10.26 -1.56 -1.96 -2.35	
05 05 23 00-1013	EA	5/16"	Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	11.08 -1.56 -1.96 -2.35	
05 05 23 00-1014	EA	5/16"	Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	11.66 -1.56 -1.96 -2.35	
05 05 23 00-1015	EA	5/16"	Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt <i>For >100 To 250, Deduct</i> <i>For >250 To 500, Deduct</i> <i>For >500, Deduct</i>	12.13 -1.61 -2.01 -2.41	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1016	EA	5/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	13.36	
		For >100 To 250, Deduct	-1.61	
		For >250 To 500, Deduct	-2.01	
		For >500, Deduct	-2.41	
05 05 23 00-1017	EA	5/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	13.61	
		For >100 To 250, Deduct	-1.61	
		For >250 To 500, Deduct	-2.01	
		For >500, Deduct	-2.41	
05 05 23 00-1018	EA	5/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	14.68	
		For >100 To 250, Deduct	-1.65	
		For >250 To 500, Deduct	-2.06	
		For >500, Deduct	-2.48	
05 05 23 00-1019	EA	5/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	15.64	
		For >100 To 250, Deduct	-1.65	
		For >250 To 500, Deduct	-2.06	
		For >500, Deduct	-2.48	
05 05 23 00-1020	EA	5/16" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	23.61	
		For >100 To 250, Deduct	-1.65	
		For >250 To 500, Deduct	-2.06	
		For >500, Deduct	-2.48	
05 05 23 00-1021	EA	5/16" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	35.16	
		For >100 To 250, Deduct	-1.69	
		For >250 To 500, Deduct	-2.12	
		For >500, Deduct	-2.54	
05 05 23 00-1022		3/8" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)		
05 05 23 00-1023	EA	3/8" Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt	9.46	
		For >100 To 250, Deduct	-1.52	
		For >250 To 500, Deduct	-1.90	
		For >500, Deduct	-2.28	
05 05 23 00-1024	EA	3/8" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	9.59	
		For >100 To 250, Deduct	-1.52	
		For >250 To 500, Deduct	-1.90	
		For >500, Deduct	-2.28	
05 05 23 00-1025	EA	3/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	10.09	
		For >100 To 250, Deduct	-1.52	
		For >250 To 500, Deduct	-1.90	
		For >500, Deduct	-2.28	
05 05 23 00-1026	EA	3/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	11.28	
		For >100 To 250, Deduct	-1.52	
		For >250 To 500, Deduct	-1.90	
		For >500, Deduct	-2.28	
05 05 23 00-1027	EA	3/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	11.91	
		For >100 To 250, Deduct	-1.56	
		For >250 To 500, Deduct	-1.96	
		For >500, Deduct	-2.35	
05 05 23 00-1028	EA	3/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	12.12	
		For >100 To 250, Deduct	-1.56	
		For >250 To 500, Deduct	-1.96	
		For >500, Deduct	-2.35	
05 05 23 00-1029	EA	3/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	13.16	
		For >100 To 250, Deduct	-1.56	
		For >250 To 500, Deduct	-1.96	
		For >500, Deduct	-2.35	
05 05 23 00-1030	EA	3/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	13.53	
		For >100 To 250, Deduct	-1.61	
		For >250 To 500, Deduct	-2.01	
		For >500, Deduct	-2.41	
05 05 23 00-1031	EA	3/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	14.18	
		For >100 To 250, Deduct	-1.61	
		For >250 To 500, Deduct	-2.01	
		For >500, Deduct	-2.41	
05 05 23 00-1032	EA	3/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	14.63	
		For >100 To 250, Deduct	-1.61	
		For >250 To 500, Deduct	-2.01	
		For >500, Deduct	-2.41	
05 05 23 00-1033	EA	3/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	16.28	
		For >100 To 250, Deduct	-1.65	
		For >250 To 500, Deduct	-2.06	
		For >500, Deduct	-2.48	
05 05 23 00-1034	EA	3/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	18.02	
		For >100 To 250, Deduct	-1.65	
		For >250 To 500, Deduct	-2.06	
		For >500, Deduct	-2.48	
05 05 23 00-1035	EA	3/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	18.10	
		For >100 To 250, Deduct	-1.65	
		For >250 To 500, Deduct	-2.06	
		For >500, Deduct	-2.48	
05 05 23 00-1036	EA	3/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	22.75	
		For >100 To 250, Deduct	-1.69	
		For >250 To 500, Deduct	-2.12	
		For >500, Deduct	-2.54	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1037	EA		3/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	29.97	
			For >100 To 250, Deduct	-1.69	
			For >250 To 500, Deduct	-2.12	
			For >500, Deduct	-2.54	
05 05 23 00-1038	EA		3/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	37.77	
			For >100 To 250, Deduct	-1.69	
			For >250 To 500, Deduct	-2.12	
			For >500, Deduct	-2.54	
05 05 23 00-1039 7/16" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)					
05 05 23 00-1040	EA		7/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	12.53	
			For >100 To 250, Deduct	-1.74	
			For >250 To 500, Deduct	-2.17	
			For >500, Deduct	-2.61	
05 05 23 00-1041	EA		7/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	13.28	
			For >100 To 250, Deduct	-1.74	
			For >250 To 500, Deduct	-2.17	
			For >500, Deduct	-2.61	
05 05 23 00-1042	EA		7/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	14.68	
			For >100 To 250, Deduct	-1.74	
			For >250 To 500, Deduct	-2.17	
			For >500, Deduct	-2.61	
05 05 23 00-1043	EA		7/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	16.10	
			For >100 To 250, Deduct	-1.78	
			For >250 To 500, Deduct	-2.23	
			For >500, Deduct	-2.67	
05 05 23 00-1044	EA		7/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	17.44	
			For >100 To 250, Deduct	-1.78	
			For >250 To 500, Deduct	-2.23	
			For >500, Deduct	-2.67	
05 05 23 00-1045	EA		7/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	19.65	
			For >100 To 250, Deduct	-1.78	
			For >250 To 500, Deduct	-2.23	
			For >500, Deduct	-2.67	
05 05 23 00-1046	EA		7/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	21.98	
			For >100 To 250, Deduct	-1.82	
			For >250 To 500, Deduct	-2.28	
			For >500, Deduct	-2.74	
05 05 23 00-1047	EA		7/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	22.37	
			For >100 To 250, Deduct	-1.82	
			For >250 To 500, Deduct	-2.28	
			For >500, Deduct	-2.74	
05 05 23 00-1048	EA		7/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	23.17	
			For >100 To 250, Deduct	-1.82	
			For >250 To 500, Deduct	-2.28	
			For >500, Deduct	-2.74	
05 05 23 00-1049	EA		7/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	23.93	
			For >100 To 250, Deduct	-1.87	
			For >250 To 500, Deduct	-2.34	
			For >500, Deduct	-2.80	
05 05 23 00-1050	EA		7/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	24.51	
			For >100 To 250, Deduct	-1.87	
			For >250 To 500, Deduct	-2.34	
			For >500, Deduct	-2.80	
05 05 23 00-1051	EA		7/16" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	25.08	
			For >100 To 250, Deduct	-1.87	
			For >250 To 500, Deduct	-2.34	
			For >500, Deduct	-2.80	
05 05 23 00-1052	EA		7/16" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	25.76	
			For >100 To 250, Deduct	-1.91	
			For >250 To 500, Deduct	-2.39	
			For >500, Deduct	-2.87	
05 05 23 00-1053 1/2" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)					
05 05 23 00-1054	EA		1/2" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	12.49	
			For >100 To 250, Deduct	-1.74	
			For >250 To 500, Deduct	-2.17	
			For >500, Deduct	-2.61	
05 05 23 00-1055	EA		1/2" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	13.30	
			For >100 To 250, Deduct	-1.74	
			For >250 To 500, Deduct	-2.17	
			For >500, Deduct	-2.61	
05 05 23 00-1056	EA		1/2" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	14.43	
			For >100 To 250, Deduct	-1.74	
			For >250 To 500, Deduct	-2.17	
			For >500, Deduct	-2.61	
05 05 23 00-1057	EA		1/2" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	15.98	
			For >100 To 250, Deduct	-1.78	
			For >250 To 500, Deduct	-2.23	
			For >500, Deduct	-2.67	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1058	EA	1/2" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	17.23	
		For >100 To 250, Deduct	-1.78	
		For >250 To 500, Deduct	-2.23	
		For >500, Deduct	-2.67	
05 05 23 00-1059	EA	1/2" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	17.54	
		For >100 To 250, Deduct	-1.78	
		For >250 To 500, Deduct	-2.23	
		For >500, Deduct	-2.67	
05 05 23 00-1060	EA	1/2" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	18.28	
		For >100 To 250, Deduct	-1.82	
		For >250 To 500, Deduct	-2.28	
		For >500, Deduct	-2.74	
05 05 23 00-1061	EA	1/2" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	20.68	
		For >100 To 250, Deduct	-1.82	
		For >250 To 500, Deduct	-2.28	
		For >500, Deduct	-2.74	
05 05 23 00-1062	EA	1/2" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	25.56	
		For >100 To 250, Deduct	-1.82	
		For >250 To 500, Deduct	-2.28	
		For >500, Deduct	-2.74	
05 05 23 00-1063	EA	1/2" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	26.14	
		For >100 To 250, Deduct	-1.87	
		For >250 To 500, Deduct	-2.34	
		For >500, Deduct	-2.80	
05 05 23 00-1064	EA	1/2" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	26.91	
		For >100 To 250, Deduct	-1.87	
		For >250 To 500, Deduct	-2.34	
		For >500, Deduct	-2.80	
05 05 23 00-1065	EA	1/2" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	32.94	
		For >100 To 250, Deduct	-1.87	
		For >250 To 500, Deduct	-2.34	
		For >500, Deduct	-2.80	
05 05 23 00-1066	EA	1/2" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	37.19	
		For >100 To 250, Deduct	-1.91	
		For >250 To 500, Deduct	-2.39	
		For >500, Deduct	-2.87	
05 05 23 00-1067	EA	1/2" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	39.80	
		For >100 To 250, Deduct	-1.91	
		For >250 To 500, Deduct	-2.39	
		For >500, Deduct	-2.87	
05 05 23 00-1068	EA	1/2" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	44.12	
		For >100 To 250, Deduct	-1.91	
		For >250 To 500, Deduct	-2.39	
		For >500, Deduct	-2.87	
05 05 23 00-1069	EA	1/2" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	55.76	
		For >100 To 250, Deduct	-1.96	
		For >250 To 500, Deduct	-2.45	
		For >500, Deduct	-2.93	
05 05 23 00-1070	EA	1/2" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	63.14	
		For >100 To 250, Deduct	-1.96	
		For >250 To 500, Deduct	-2.45	
		For >500, Deduct	-2.93	
05 05 23 00-1071	EA	1/2" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	64.35	
		For >100 To 250, Deduct	-1.96	
		For >250 To 500, Deduct	-2.45	
		For >500, Deduct	-2.93	
05 05 23 00-1072	EA	1/2" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	66.23	
		For >100 To 250, Deduct	-1.96	
		For >250 To 500, Deduct	-2.45	
		For >500, Deduct	-2.93	
05 05 23 00-1073		9/16" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)		
05 05 23 00-1074	EA	9/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	32.69	
		For >100 To 250, Deduct	-1.74	
		For >250 To 500, Deduct	-2.17	
		For >500, Deduct	-2.61	
05 05 23 00-1075	EA	9/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	35.34	
		For >100 To 250, Deduct	-1.74	
		For >250 To 500, Deduct	-2.17	
		For >500, Deduct	-2.61	
05 05 23 00-1076	EA	9/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	44.21	
		For >100 To 250, Deduct	-1.74	
		For >250 To 500, Deduct	-2.17	
		For >500, Deduct	-2.61	
05 05 23 00-1077	EA	9/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	49.39	
		For >100 To 250, Deduct	-1.78	
		For >250 To 500, Deduct	-2.23	
		For >500, Deduct	-2.67	
05 05 23 00-1078	EA	9/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	54.63	
		For >100 To 250, Deduct	-1.78	
		For >250 To 500, Deduct	-2.23	
		For >500, Deduct	-2.67	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1079	EA		9/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	59.88	
			For >100 To 250, Deduct	-1.78	
			For >250 To 500, Deduct	-2.23	
			For >500, Deduct	-2.67	
05 05 23 00-1080	EA		9/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	63.36	
			For >100 To 250, Deduct	-1.82	
			For >250 To 500, Deduct	-2.28	
			For >500, Deduct	-2.74	
05 05 23 00-1081	EA		9/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	67.68	
			For >100 To 250, Deduct	-1.82	
			For >250 To 500, Deduct	-2.28	
			For >500, Deduct	-2.74	
05 05 23 00-1082	EA		9/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	71.52	
			For >100 To 250, Deduct	-1.82	
			For >250 To 500, Deduct	-2.28	
			For >500, Deduct	-2.74	
05 05 23 00-1083	EA		9/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	72.89	
			For >100 To 250, Deduct	-1.87	
			For >250 To 500, Deduct	-2.34	
			For >500, Deduct	-2.80	
05 05 23 00-1084	EA		9/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	76.27	
			For >100 To 250, Deduct	-1.87	
			For >250 To 500, Deduct	-2.34	
			For >500, Deduct	-2.80	
05 05 23 00-1085			5/8" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)		
05 05 23 00-1086	EA		5/8" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	17.69	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.93	
05 05 23 00-1087	EA		5/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	17.92	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.93	
05 05 23 00-1088	EA		5/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	18.00	
			For >100 To 250, Deduct	-1.96	
			For >250 To 500, Deduct	-2.45	
			For >500, Deduct	-2.93	
05 05 23 00-1089	EA		5/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	19.72	
			For >100 To 250, Deduct	-2.00	
			For >250 To 500, Deduct	-2.50	
			For >500, Deduct	-3.00	
05 05 23 00-1090	EA		5/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	21.28	
			For >100 To 250, Deduct	-2.00	
			For >250 To 500, Deduct	-2.50	
			For >500, Deduct	-3.00	
05 05 23 00-1091	EA		5/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	26.21	
			For >100 To 250, Deduct	-2.00	
			For >250 To 500, Deduct	-2.50	
			For >500, Deduct	-3.00	
05 05 23 00-1092	EA		5/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	27.47	
			For >100 To 250, Deduct	-2.04	
			For >250 To 500, Deduct	-2.55	
			For >500, Deduct	-3.06	
05 05 23 00-1093	EA		5/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	31.79	
			For >100 To 250, Deduct	-2.04	
			For >250 To 500, Deduct	-2.55	
			For >500, Deduct	-3.06	
05 05 23 00-1094	EA		5/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	33.29	
			For >100 To 250, Deduct	-2.04	
			For >250 To 500, Deduct	-2.55	
			For >500, Deduct	-3.06	
05 05 23 00-1095	EA		5/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	36.34	
			For >100 To 250, Deduct	-2.08	
			For >250 To 500, Deduct	-2.61	
			For >500, Deduct	-3.13	
05 05 23 00-1096	EA		5/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	37.57	
			For >100 To 250, Deduct	-2.08	
			For >250 To 500, Deduct	-2.61	
			For >500, Deduct	-3.13	
05 05 23 00-1097	EA		5/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	45.13	
			For >100 To 250, Deduct	-2.08	
			For >250 To 500, Deduct	-2.61	
			For >500, Deduct	-3.13	
05 05 23 00-1098	EA		5/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	48.08	
			For >100 To 250, Deduct	-2.13	
			For >250 To 500, Deduct	-2.66	
			For >500, Deduct	-3.19	
05 05 23 00-1099	EA		5/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	49.04	
			For >100 To 250, Deduct	-2.13	
			For >250 To 500, Deduct	-2.66	
			For >500, Deduct	-3.19	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1100	EA	5/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	52.57	
		For >100 To 250, Deduct	-2.13	
		For >250 To 500, Deduct	-2.66	
		For >500, Deduct	-3.19	
05 05 23 00-1101	EA	5/8" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt	55.98	
		For >100 To 250, Deduct	-2.17	
		For >250 To 500, Deduct	-2.72	
		For >500, Deduct	-3.26	
05 05 23 00-1102	EA	5/8" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt	58.98	
		For >100 To 250, Deduct	-2.17	
		For >250 To 500, Deduct	-2.72	
		For >500, Deduct	-3.26	
05 05 23 00-1103	EA	5/8" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt	73.26	
		For >100 To 250, Deduct	-2.17	
		For >250 To 500, Deduct	-2.72	
		For >500, Deduct	-3.26	
05 05 23 00-1104	EA	5/8" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt	88.52	
		For >100 To 250, Deduct	-2.17	
		For >250 To 500, Deduct	-2.72	
		For >500, Deduct	-3.26	
05 05 23 00-1105 3/4" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)				
05 05 23 00-1106	EA	3/4" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt	23.70	
		For >100 To 250, Deduct	-1.96	
		For >250 To 500, Deduct	-2.45	
		For >500, Deduct	-2.93	
05 05 23 00-1107	EA	3/4" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt	24.24	
		For >100 To 250, Deduct	-1.96	
		For >250 To 500, Deduct	-2.45	
		For >500, Deduct	-2.93	
05 05 23 00-1108	EA	3/4" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt	26.29	
		For >100 To 250, Deduct	-1.96	
		For >250 To 500, Deduct	-2.45	
		For >500, Deduct	-2.93	
05 05 23 00-1109	EA	3/4" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt	28.31	
		For >100 To 250, Deduct	-2.00	
		For >250 To 500, Deduct	-2.50	
		For >500, Deduct	-3.00	
05 05 23 00-1110	EA	3/4" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt	32.15	
		For >100 To 250, Deduct	-2.00	
		For >250 To 500, Deduct	-2.50	
		For >500, Deduct	-3.00	
05 05 23 00-1111	EA	3/4" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt	34.37	
		For >100 To 250, Deduct	-2.00	
		For >250 To 500, Deduct	-2.50	
		For >500, Deduct	-3.00	
05 05 23 00-1112	EA	3/4" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt	39.34	
		For >100 To 250, Deduct	-2.04	
		For >250 To 500, Deduct	-2.55	
		For >500, Deduct	-3.06	
05 05 23 00-1113	EA	3/4" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt	41.29	
		For >100 To 250, Deduct	-2.04	
		For >250 To 500, Deduct	-2.55	
		For >500, Deduct	-3.06	
05 05 23 00-1114	EA	3/4" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt	42.37	
		For >100 To 250, Deduct	-2.04	
		For >250 To 500, Deduct	-2.55	
		For >500, Deduct	-3.06	
05 05 23 00-1115	EA	3/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt	44.02	
		For >100 To 250, Deduct	-2.08	
		For >250 To 500, Deduct	-2.61	
		For >500, Deduct	-3.13	
05 05 23 00-1116	EA	3/4" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt	46.48	
		For >100 To 250, Deduct	-2.08	
		For >250 To 500, Deduct	-2.61	
		For >500, Deduct	-3.13	
05 05 23 00-1117	EA	3/4" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt	54.04	
		For >100 To 250, Deduct	-2.08	
		For >250 To 500, Deduct	-2.61	
		For >500, Deduct	-3.13	
05 05 23 00-1118	EA	3/4" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt	65.21	
		For >100 To 250, Deduct	-2.13	
		For >250 To 500, Deduct	-2.66	
		For >500, Deduct	-3.19	
05 05 23 00-1119	EA	3/4" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt	73.73	
		For >100 To 250, Deduct	-2.13	
		For >250 To 500, Deduct	-2.66	
		For >500, Deduct	-3.19	
05 05 23 00-1120	EA	3/4" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt	75.02	
		For >100 To 250, Deduct	-2.13	
		For >250 To 500, Deduct	-2.66	
		For >500, Deduct	-3.19	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1121	EA	3/4"	Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt 80.36 For >100 To 250, Deduct -2.17 For >250 To 500, Deduct -2.72 For >500, Deduct -3.26		
05 05 23 00-1122	EA	3/4"	Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt 93.29 For >100 To 250, Deduct -2.17 For >250 To 500, Deduct -2.72 For >500, Deduct -3.26		
05 05 23 00-1123	EA	3/4"	Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt 94.38 For >100 To 250, Deduct -2.17 For >250 To 500, Deduct -2.72 For >500, Deduct -3.26		
05 05 23 00-1124	EA	3/4"	Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt 97.11 For >100 To 250, Deduct -2.17 For >250 To 500, Deduct -2.72 For >500, Deduct -3.26		
05 05 23 00-1125			7/8" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)		
05 05 23 00-1126	EA	7/8"	Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt 26.74 For >100 To 250, Deduct -2.17 For >250 To 500, Deduct -2.72 For >500, Deduct -3.26		
05 05 23 00-1127	EA	7/8"	Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt 30.29 For >100 To 250, Deduct -2.17 For >250 To 500, Deduct -2.72 For >500, Deduct -3.26		
05 05 23 00-1128	EA	7/8"	Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt 32.45 For >100 To 250, Deduct -2.22 For >250 To 500, Deduct -2.77 For >500, Deduct -3.32		
05 05 23 00-1129	EA	7/8"	Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt 37.42 For >100 To 250, Deduct -2.22 For >250 To 500, Deduct -2.77 For >500, Deduct -3.32		
05 05 23 00-1130	EA	7/8"	Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt 39.65 For >100 To 250, Deduct -2.22 For >250 To 500, Deduct -2.77 For >500, Deduct -3.32		
05 05 23 00-1131	EA	7/8"	Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt 41.83 For >100 To 250, Deduct -2.26 For >250 To 500, Deduct -2.83 For >500, Deduct -3.39		
05 05 23 00-1132	EA	7/8"	Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt 44.84 For >100 To 250, Deduct -2.26 For >250 To 500, Deduct -2.83 For >500, Deduct -3.39		
05 05 23 00-1133	EA	7/8"	Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt 51.62 For >100 To 250, Deduct -2.26 For >250 To 500, Deduct -2.83 For >500, Deduct -3.39		
05 05 23 00-1134	EA	7/8"	Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt 52.00 For >100 To 250, Deduct -2.30 For >250 To 500, Deduct -2.88 For >500, Deduct -3.45		
05 05 23 00-1135	EA	7/8"	Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt 54.25 For >100 To 250, Deduct -2.30 For >250 To 500, Deduct -2.88 For >500, Deduct -3.45		
05 05 23 00-1136	EA	7/8"	Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt 73.22 For >100 To 250, Deduct -2.30 For >250 To 500, Deduct -2.88 For >500, Deduct -3.45		
05 05 23 00-1137	EA	7/8"	Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt 81.81 For >100 To 250, Deduct -2.35 For >250 To 500, Deduct -2.93 For >500, Deduct -3.52		
05 05 23 00-1138	EA	7/8"	Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt 90.81 For >100 To 250, Deduct -2.35 For >250 To 500, Deduct -2.93 For >500, Deduct -3.52		
05 05 23 00-1139	EA	7/8"	Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt 95.25 For >100 To 250, Deduct -2.35 For >250 To 500, Deduct -2.93 For >500, Deduct -3.52		
05 05 23 00-1140	EA	7/8"	Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt 101.23 For >100 To 250, Deduct -2.39 For >250 To 500, Deduct -2.99 For >500, Deduct -3.59		
05 05 23 00-1141	EA	7/8"	Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt 105.09 For >100 To 250, Deduct -2.39 For >250 To 500, Deduct -2.99 For >500, Deduct -3.59		

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1142 EA 7/8" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt 108.91 For >100 To 250, Deduct -2.39 For >250 To 500, Deduct -2.99 For >500, Deduct -3.59		
05 05 23 00-1143 EA 7/8" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt 113.21 For >100 To 250, Deduct -2.39 For >250 To 500, Deduct -2.99 For >500, Deduct -3.59		
05 05 23 00-1144 1" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)		
05 05 23 00-1145 EA 1" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt 34.55 For >100 To 250, Deduct -2.17 For >250 To 500, Deduct -2.72 For >500, Deduct -3.26		
05 05 23 00-1146 EA 1" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt 40.24 For >100 To 250, Deduct -2.22 For >250 To 500, Deduct -2.77 For >500, Deduct -3.32		
05 05 23 00-1147 EA 1" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt 43.91 For >100 To 250, Deduct -2.22 For >250 To 500, Deduct -2.77 For >500, Deduct -3.32		
05 05 23 00-1148 EA 1" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt 49.77 For >100 To 250, Deduct -2.22 For >250 To 500, Deduct -2.77 For >500, Deduct -3.32		
05 05 23 00-1149 EA 1" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt 52.08 For >100 To 250, Deduct -2.26 For >250 To 500, Deduct -2.83 For >500, Deduct -3.39		
05 05 23 00-1150 EA 1" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt 56.06 For >100 To 250, Deduct -2.26 For >250 To 500, Deduct -2.83 For >500, Deduct -3.39		
05 05 23 00-1151 EA 1" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt 60.07 For >100 To 250, Deduct -2.26 For >250 To 500, Deduct -2.83 For >500, Deduct -3.39		
05 05 23 00-1152 EA 1" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt 64.31 For >100 To 250, Deduct -2.30 For >250 To 500, Deduct -2.88 For >500, Deduct -3.45		
05 05 23 00-1153 EA 1" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt 74.68 For >100 To 250, Deduct -2.30 For >250 To 500, Deduct -2.88 For >500, Deduct -3.45		
05 05 23 00-1154 EA 1" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt 84.89 For >100 To 250, Deduct -2.30 For >250 To 500, Deduct -2.88 For >500, Deduct -3.45		
05 05 23 00-1155 EA 1" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt 99.09 For >100 To 250, Deduct -2.35 For >250 To 500, Deduct -2.93 For >500, Deduct -3.52		
05 05 23 00-1156 EA 1" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt 110.84 For >100 To 250, Deduct -2.35 For >250 To 500, Deduct -2.93 For >500, Deduct -3.52		
05 05 23 00-1157 EA 1" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt 112.53 For >100 To 250, Deduct -2.35 For >250 To 500, Deduct -2.93 For >500, Deduct -3.52		
05 05 23 00-1158 EA 1" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt 116.59 For >100 To 250, Deduct -2.39 For >250 To 500, Deduct -2.99 For >500, Deduct -3.59		
05 05 23 00-1159 EA 1" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt 118.20 For >100 To 250, Deduct -2.39 For >250 To 500, Deduct -2.99 For >500, Deduct -3.59		
05 05 23 00-1160 EA 1" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt 137.71 For >100 To 250, Deduct -2.39 For >250 To 500, Deduct -2.99 For >500, Deduct -3.59		
05 05 23 00-1161 EA 1" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt 156.55 For >100 To 250, Deduct -2.39 For >250 To 500, Deduct -2.99 For >500, Deduct -3.59		

05 05 23 00-1162 Screws (05 05 23)

05 05 23 00-1163 Teks® 5 Self Drilling Screws (05 05 23 00-1162)

Note: Includes Climaseal® finish, self-drill point and tapping threads.



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1164	EA		12-24 x 1-1/4", Hex Washer Head, Teks® 5 Self Drilling Screw.....	4.12	
			For >10 To 50, Deduct	-0.18	
			For >50 To 100, Deduct	-0.37	
			For >100, Deduct	-0.75	
05 05 23 00-1165	EA		12-24 x 1-1/2", Hex Washer Head, Teks® 5 Self Drilling Screw.....	4.30	
			For >10 To 50, Deduct	-0.18	
			For >50 To 100, Deduct	-0.38	
			For >100, Deduct	-0.76	
05 05 23 00-1166	EA		12-24 x 2", Hex Washer Head, Teks® 5 Self Drilling Screw.....	4.80	
			For >10 To 50, Deduct	-0.19	
			For >50 To 100, Deduct	-0.41	
			For >100, Deduct	-0.82	
05 05 23 00-1167	EA		1/4"-28 x 3", Hex Washer Head, Teks® 5 Self Drilling Screw.....	6.62	
			For >10 To 50, Deduct	-0.24	
			For >50 To 100, Deduct	-0.53	
			For >100, Deduct	-1.06	
05 05 23 00-1168	EA		1/4"-28 x 4", Hex Washer Head, Teks® 5 Self Drilling Screw.....	7.07	
			For >10 To 50, Deduct	-0.25	
			For >50 To 100, Deduct	-0.56	
			For >100, Deduct	-1.11	
05 05 23 00-1169	EA		1/4"-28 x 6", Hex Washer Head, Teks® 5 Self Drilling Screw.....	8.75	
			For >10 To 50, Deduct	-0.27	
			For >50 To 100, Deduct	-0.62	
			For >100, Deduct	-1.23	
05 05 23 00-1170	EA		1/4"-28 x 8", Hex Washer Head, Teks® 5 Self Drilling Screw.....	9.79	
			For >10 To 50, Deduct	-0.28	
			For >50 To 100, Deduct	-0.66	
			For >100, Deduct	-1.32	
05 05 23 00-1171			Security Screws (05 05 23 00-1162)		
05 05 23 00-1172			304/18-8 Stainless Steel, Security Screws (05 05 23 00-1171)		
			Note: Includes "security" style drive in machine or sheet metal screw threads.		
05 05 23 00-1173	EA		#4 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screws.....	3.24	
			For >10 To 50, Deduct	-0.15	
			For >50 To 100, Deduct	-0.31	
			For >100, Deduct	-0.62	
05 05 23 00-1174	EA		#6 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.80	
			For >10 To 50, Deduct	-0.15	
			For >50 To 100, Deduct	-0.32	
			For >100, Deduct	-0.65	
05 05 23 00-1175	EA		#6 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw.....	4.27	
			For >10 To 50, Deduct	-0.15	
			For >50 To 100, Deduct	-0.33	
			For >100, Deduct	-0.67	
05 05 23 00-1176	EA		#6 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.43	
			For >10 To 50, Deduct	-0.15	
			For >50 To 100, Deduct	-0.34	
			For >100, Deduct	-0.68	
05 05 23 00-1177	EA		#6 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.74	
			For >10 To 50, Deduct	-0.15	
			For >50 To 100, Deduct	-0.35	
			For >100, Deduct	-0.69	
05 05 23 00-1178	EA		#8 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.92	
			For >10 To 50, Deduct	-0.15	
			For >50 To 100, Deduct	-0.33	
			For >100, Deduct	-0.65	
05 05 23 00-1179	EA		#8 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw.....	4.15	
			For >10 To 50, Deduct	-0.15	
			For >50 To 100, Deduct	-0.33	
			For >100, Deduct	-0.66	
05 05 23 00-1180	EA		#8 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.62	
			For >10 To 50, Deduct	-0.15	
			For >50 To 100, Deduct	-0.34	
			For >100, Deduct	-0.69	
05 05 23 00-1181	EA		#8 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.76	
			For >10 To 50, Deduct	-0.15	
			For >50 To 100, Deduct	-0.35	
			For >100, Deduct	-0.69	
05 05 23 00-1182	EA		#10 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.06	
			For >10 To 50, Deduct	-0.15	
			For >50 To 100, Deduct	-0.33	
			For >100, Deduct	-0.66	
05 05 23 00-1183	EA		#10 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw.....	4.13	
			For >10 To 50, Deduct	-0.15	
			For >50 To 100, Deduct	-0.33	
			For >100, Deduct	-0.66	
05 05 23 00-1184	EA		#10 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.33	
			For >10 To 50, Deduct	-0.15	
			For >50 To 100, Deduct	-0.34	
			For >100, Deduct	-0.67	
05 05 23 00-1185	EA		#10 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.97	
			For >10 To 50, Deduct	-0.15	
			For >50 To 100, Deduct	-0.35	
			For >100, Deduct	-0.70	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1186	EA	1/4" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	4.43	
		<i>For >10 To 50, Deduct</i>	-0.15	
		<i>For >50 To 100, Deduct</i>	-0.34	
		<i>For >100, Deduct</i>	-0.68	
05 05 23 00-1187	EA	1/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw.....	4.58	
		<i>For >10 To 50, Deduct</i>	-0.15	
		<i>For >50 To 100, Deduct</i>	-0.34	
		<i>For >100, Deduct</i>	-0.69	
05 05 23 00-1188	EA	1/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw	5.19	
		<i>For >10 To 50, Deduct</i>	-0.15	
		<i>For >50 To 100, Deduct</i>	-0.36	
		<i>For >100, Deduct</i>	-0.72	
05 05 23 00-1189	EA	1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	6.15	
		<i>For >10 To 50, Deduct</i>	-0.15	
		<i>For >50 To 100, Deduct</i>	-0.38	
		<i>For >100, Deduct</i>	-0.76	

05 05 23 00-1190 Threaded Rod (05 05 23)

Note: Fully threaded. See CSI section 05 05 19 00-0169 for anchoring adhesive, 05 05 23 00-1283 for nuts and washers.

05 05 23 00-1191 Plain Finish Steel, Low Carbon Threaded Rod (05 05 23 00-1190)

05 05 23 00-1192	LF	1/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	2.10	0.54
		<i>For Left Hand Threaded Rod, Add</i>	0.10	
05 05 23 00-1193	LF	5/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	2.73	0.59
		<i>For Left Hand Threaded Rod, Add</i>	0.15	
05 05 23 00-1194	LF	3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	3.16	0.69
		<i>For Left Hand Threaded Rod, Add</i>	0.18	
05 05 23 00-1195	LF	7/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	4.20	0.71
		<i>For Left Hand Threaded Rod, Add</i>	0.28	
05 05 23 00-1196	LF	1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	4.31	0.73
		<i>For Left Hand Threaded Rod, Add</i>	0.29	
05 05 23 00-1197	LF	9/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	5.28	0.74
		<i>For Left Hand Threaded Rod, Add</i>	0.38	
05 05 23 00-1198	LF	5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	5.93	0.76
		<i>For Left Hand Threaded Rod, Add</i>	0.44	
05 05 23 00-1199	LF	3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	9.59	0.78
		<i>For Left Hand Threaded Rod, Add</i>	0.81	
05 05 23 00-1200	LF	7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	10.45	0.80
		<i>For Left Hand Threaded Rod, Add</i>	0.89	
05 05 23 00-1201	LF	1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	14.24	0.91
		<i>For Left Hand Threaded Rod, Add</i>	1.24	
05 05 23 00-1202	LF	1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	17.69	1.01
		<i>For Left Hand Threaded Rod, Add</i>	1.57	
05 05 23 00-1203	LF	1-1/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	23.41	1.09
		<i>For Left Hand Threaded Rod, Add</i>	2.11	
05 05 23 00-1204	LF	1-3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	29.06	1.18
		<i>For Left Hand Threaded Rod, Add</i>	2.67	
05 05 23 00-1205	LF	1-1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	34.71	1.24
		<i>For Left Hand Threaded Rod, Add</i>	3.22	
05 05 23 00-1206	LF	1-3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	42.49	1.30
		<i>For Left Hand Threaded Rod, Add</i>	3.99	
05 05 23 00-1207	LF	2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	54.19	1.36
		<i>For Left Hand Threaded Rod, Add</i>	5.15	

05 05 23 00-1208 Zinc Plated Steel, Low Carbon Threaded Rod (05 05 23 00-1190)

05 05 23 00-1209	LF	1/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	2.12	0.54
		<i>For Left Hand Threaded Rod, Add</i>	0.10	
05 05 23 00-1210	LF	5/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	3.06	0.59
		<i>For Left Hand Threaded Rod, Add</i>	0.19	
05 05 23 00-1211	LF	3/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	3.41	0.69
		<i>For Left Hand Threaded Rod, Add</i>	0.21	
05 05 23 00-1212	LF	7/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	4.83	0.71
		<i>For Left Hand Threaded Rod, Add</i>	0.34	
05 05 23 00-1213	LF	1/2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	5.20	0.73
		<i>For Left Hand Threaded Rod, Add</i>	0.38	
05 05 23 00-1214	LF	9/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod	6.73	0.74
		<i>For Left Hand Threaded Rod, Add</i>	0.53	
05 05 23 00-1215	LF	5/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	7.14	0.76
		<i>For Left Hand Threaded Rod, Add</i>	0.56	
05 05 23 00-1216	LF	3/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	10.63	0.78
		<i>For Left Hand Threaded Rod, Add</i>	0.91	
05 05 23 00-1217	LF	7/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	13.72	0.80
		<i>For Left Hand Threaded Rod, Add</i>	1.21	
05 05 23 00-1218	LF	1" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	18.36	0.91
		<i>For Left Hand Threaded Rod, Add</i>	1.66	
05 05 23 00-1219	LF	1-1/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	23.65	1.01
		<i>For Left Hand Threaded Rod, Add</i>	2.16	
05 05 23 00-1220	LF	1-1/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	28.20	1.09
		<i>For Left Hand Threaded Rod, Add</i>	2.59	
05 05 23 00-1221	LF	1-3/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	32.03	1.18
		<i>For Left Hand Threaded Rod, Add</i>	2.97	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1222	LF		1-1/2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	40.26	1.24
			For Left Hand Threaded Rod, Add	3.78	
05 05 23 00-1223	LF		1-3/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	49.81	1.30
			For Left Hand Threaded Rod, Add	4.72	
05 05 23 00-1224	LF		2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	72.52	1.36
			For Left Hand Threaded Rod, Add	6.98	
05 05 23 00-1225 Hot Dipped Galvanized Steel, Low Carbon Threaded Rod (05 05 23 00-1190)					
05 05 23 00-1226	LF		3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	5.49	0.69
			For Left Hand Threaded Rod, Add	0.41	
05 05 23 00-1227	LF		1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	7.62	0.73
			For Left Hand Threaded Rod, Add	0.62	
05 05 23 00-1228	LF		5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	10.21	0.76
			For Left Hand Threaded Rod, Add	0.87	
05 05 23 00-1229	LF		3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	13.94	0.78
			For Left Hand Threaded Rod, Add	1.24	
05 05 23 00-1230	LF		7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	19.22	0.80
			For Left Hand Threaded Rod, Add	1.76	
05 05 23 00-1231	LF		1" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	24.76	0.91
			For Left Hand Threaded Rod, Add	2.30	
05 05 23 00-1232	LF		1-1/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	32.53	1.01
			For Left Hand Threaded Rod, Add	3.05	
05 05 23 00-1233	LF		1-1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	42.72	1.09
			For Left Hand Threaded Rod, Add	4.05	
05 05 23 00-1234	LF		1-3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	47.72	1.18
			For Left Hand Threaded Rod, Add	4.54	
05 05 23 00-1235	LF		1-1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	56.75	1.24
			For Left Hand Threaded Rod, Add	5.43	
05 05 23 00-1236	LF		1-3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	68.88	1.30
			For Left Hand Threaded Rod, Add	6.63	
05 05 23 00-1237	LF		2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod.....	119.97	1.36
			For Left Hand Threaded Rod, Add	11.73	
05 05 23 00-1238 304/18-8 Stainless Steel Threaded Rod (05 05 23 00-1190)					
05 05 23 00-1239	LF		1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	3.99	0.54
			For Left Hand Threaded Rod, Add	0.29	
05 05 23 00-1240	LF		5/16" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	6.16	0.59
			For Left Hand Threaded Rod, Add	0.50	
05 05 23 00-1241	LF		3/8" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	7.98	0.69
			For Left Hand Threaded Rod, Add	0.66	
05 05 23 00-1242	LF		7/16" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	11.24	0.71
			For Left Hand Threaded Rod, Add	0.98	
05 05 23 00-1243	LF		1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	13.57	0.73
			For Left Hand Threaded Rod, Add	1.21	
05 05 23 00-1244	LF		9/16" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	19.71	0.74
			For Left Hand Threaded Rod, Add	1.82	
05 05 23 00-1245	LF		5/8" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	20.60	0.76
			For Left Hand Threaded Rod, Add	1.91	
05 05 23 00-1246	LF		3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	29.03	0.78
			For Left Hand Threaded Rod, Add	2.75	
05 05 23 00-1247	LF		7/8" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	40.13	0.80
			For Left Hand Threaded Rod, Add	3.85	
05 05 23 00-1248	LF		1" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	51.55	0.91
			For Left Hand Threaded Rod, Add	4.97	
05 05 23 00-1249	LF		1-1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	109.66	1.09
			For Left Hand Threaded Rod, Add	10.74	
05 05 23 00-1250	LF		1-1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	167.31	1.24
			For Left Hand Threaded Rod, Add	16.48	
05 05 23 00-1251	LF		1-3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	172.08	1.30
			For Left Hand Threaded Rod, Add	16.95	
05 05 23 00-1252	LF		2" Diameter, 304/18-8 Stainless Steel Threaded Rod.....	238.41	1.36
			For Left Hand Threaded Rod, Add	23.57	
05 05 23 00-1253 316 Stainless Steel Threaded Rod (05 05 23 00-1190)					
05 05 23 00-1254	LF		1/4" Diameter, 316 Stainless Steel Threaded Rod.....	5.94	0.54
			For Left Hand Threaded Rod, Add	0.49	
05 05 23 00-1255	LF		5/16" Diameter, 316 Stainless Steel Threaded Rod.....	9.77	0.59
			For Left Hand Threaded Rod, Add	0.86	
05 05 23 00-1256	LF		3/8" Diameter, 316 Stainless Steel Threaded Rod.....	13.04	0.69
			For Left Hand Threaded Rod, Add	1.17	
05 05 23 00-1257	LF		7/16" Diameter, 316 Stainless Steel Threaded Rod.....	20.60	0.71
			For Left Hand Threaded Rod, Add	1.92	
05 05 23 00-1258	LF		1/2" Diameter, 316 Stainless Steel Threaded Rod.....	21.87	0.73
			For Left Hand Threaded Rod, Add	2.04	
05 05 23 00-1259	LF		9/16" Diameter, 316 Stainless Steel Threaded Rod.....	28.83	0.74
			For Left Hand Threaded Rod, Add	2.74	
05 05 23 00-1260	LF		5/8" Diameter, 316 Stainless Steel Threaded Rod.....	31.06	0.76
			For Left Hand Threaded Rod, Add	2.96	
05 05 23 00-1261	LF		3/4" Diameter, 316 Stainless Steel Threaded Rod.....	45.50	0.78
			For Left Hand Threaded Rod, Add	4.40	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1262	LF	7/8" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	62.48 6.09	0.80
05 05 23 00-1263	LF	1" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	79.13 7.73	0.91
05 05 23 00-1264	LF	1-1/4" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	167.59 16.53	1.09
05 05 23 00-1265	LF	1-1/2" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	219.85 21.74	1.24
05 05 23 00-1266 Plain Finish Steel, B-7 Alloy Threaded Rod (05 05 23 00-1190)				
05 05 23 00-1267	LF	1/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	3.53 1.22	0.54
05 05 23 00-1268	LF	5/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	5.37 2.09	0.59
05 05 23 00-1269	LF	3/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	5.63 2.14	0.69
05 05 23 00-1270	LF	7/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	6.14 2.37	0.71
05 05 23 00-1271	LF	1/2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	6.76 2.66	0.73
05 05 23 00-1272	LF	9/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	8.39 3.46	0.74
05 05 23 00-1273	LF	5/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	8.66 3.58	0.76
05 05 23 00-1274	LF	3/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	11.44 4.95	0.78
05 05 23 00-1275	LF	7/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	13.68 6.04	0.80
05 05 23 00-1276	LF	1" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	17.72 7.96	0.91
05 05 23 00-1277	LF	1-1/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	23.02 10.50	1.01
05 05 23 00-1278	LF	1-1/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	25.62 11.68	1.09
05 05 23 00-1279	LF	1-3/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	29.54 13.59	1.18
05 05 23 00-1280	LF	1-1/2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	35.88 16.70	1.24
05 05 23 00-1281	LF	1-3/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	37.09 17.25	1.30
05 05 23 00-1282	LF	2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod..... <i>For Zinc Plating, Add</i>	49.69 23.49	1.36
05 05 23 00-1283 Nuts And Washers (05 05 23)				
05 05 23 00-1284 Hex Nuts (05 05 23 00-1283)				
05 05 23 00-1285 Zinc Plated Steel, Low Carbon/Grade 2 Hex Nuts (05 05 23 00-1284)				
05 05 23 00-1286	EA	1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.66	0.30
05 05 23 00-1287	EA	5/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.72	0.30
05 05 23 00-1288	EA	3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.77	0.30
05 05 23 00-1289	EA	7/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.88	0.30
05 05 23 00-1290	EA	1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.95	0.30
05 05 23 00-1291	EA	9/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.21	0.30
05 05 23 00-1292	EA	5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.25	0.30
05 05 23 00-1293	EA	3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.45	0.60
05 05 23 00-1294	EA	7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	2.06	0.60
05 05 23 00-1295	EA	1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	2.59	0.60
05 05 23 00-1296	EA	1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	4.11	0.60
05 05 23 00-1297	EA	1-1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	5.01	0.60
05 05 23 00-1298	EA	1-3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	7.24	0.60
05 05 23 00-1299	EA	1-1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	8.36	0.91
05 05 23 00-1300	EA	1-3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	12.14	0.91
05 05 23 00-1301	EA	2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	17.41	0.91
05 05 23 00-1302 Zinc Plated Steel, Grade 5 Hex Nuts (05 05 23 00-1284)				
05 05 23 00-1303	EA	1/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	0.67	0.30
05 05 23 00-1304	EA	5/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	0.73	0.30
05 05 23 00-1305	EA	3/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	0.79	0.30
05 05 23 00-1306	EA	7/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	0.91	0.30
05 05 23 00-1307	EA	1/2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	1.05	0.30
05 05 23 00-1308	EA	9/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	1.24	0.30
05 05 23 00-1309	EA	5/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	1.27	0.30
05 05 23 00-1310	EA	3/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	1.62	0.60
05 05 23 00-1311	EA	7/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	2.23	0.60
05 05 23 00-1312	EA	1" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	3.09	0.60
05 05 23 00-1313	EA	1-1/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	4.61	0.60
05 05 23 00-1314	EA	1-1/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	6.45	0.60
05 05 23 00-1315	EA	1-3/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	9.35	0.60
05 05 23 00-1316	EA	1-1/2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	10.31	0.91



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1317	EA	1-3/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	18.37	0.91
05 05 23 00-1318	EA	2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut	26.22	0.91
05 05 23 00-1319		Zinc Plated Steel, Grade 8 Hex Nuts (05 05 23 00-1284)		
05 05 23 00-1320	EA	1/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	0.68	0.30
05 05 23 00-1321	EA	5/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	0.78	0.30
05 05 23 00-1322	EA	3/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	0.84	0.30
05 05 23 00-1323	EA	7/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.01	0.30
05 05 23 00-1324	EA	1/2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.19	0.30
05 05 23 00-1325	EA	9/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.41	0.30
05 05 23 00-1326	EA	5/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.58	0.30
05 05 23 00-1327	EA	3/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	1.92	0.60
05 05 23 00-1328	EA	7/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	2.81	0.60
05 05 23 00-1329	EA	1" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	3.71	0.60
05 05 23 00-1330	EA	1-1/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	5.70	0.60
05 05 23 00-1331	EA	1-1/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	7.08	0.60
05 05 23 00-1332	EA	1-3/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	11.48	0.60
05 05 23 00-1333	EA	1-1/2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	12.18	0.91
05 05 23 00-1334	EA	1-3/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	18.43	0.91
05 05 23 00-1335	EA	2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut	25.93	0.91
05 05 23 00-1336		Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nuts (05 05 23 00-1284)		
05 05 23 00-1337	EA	1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	0.68	0.30
05 05 23 00-1338	EA	5/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	0.76	0.30
05 05 23 00-1339	EA	3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	0.82	0.30
05 05 23 00-1340	EA	7/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	0.99	0.30
05 05 23 00-1341	EA	1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.13	0.30
05 05 23 00-1342	EA	9/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.25	0.30
05 05 23 00-1343	EA	5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.37	0.30
05 05 23 00-1344	EA	3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	1.77	0.60
05 05 23 00-1345	EA	7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	2.50	0.60
05 05 23 00-1346	EA	1" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	3.41	0.60
05 05 23 00-1347	EA	1-1/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	5.52	0.60
05 05 23 00-1348	EA	1-1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	7.04	0.60
05 05 23 00-1349	EA	1-3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	10.31	0.60
05 05 23 00-1350	EA	1-1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	12.00	0.91
05 05 23 00-1351	EA	1-3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	20.71	0.91
05 05 23 00-1352	EA	2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut	35.60	0.91
05 05 23 00-1353		304 Stainless Steel Hex Nuts (05 05 23 00-1284)		
05 05 23 00-1354	EA	1/4" Diameter, 304 Stainless Steel Hex Nut	0.83	0.30
05 05 23 00-1355	EA	5/16" Diameter, 304 Stainless Steel Hex Nut	1.00	0.30
05 05 23 00-1356	EA	3/8" Diameter, 304 Stainless Steel Hex Nut	1.14	0.30
05 05 23 00-1357	EA	7/16" Diameter, 304 Stainless Steel Hex Nut	1.77	0.30
05 05 23 00-1358	EA	1/2" Diameter, 304 Stainless Steel Hex Nut	1.92	0.30
05 05 23 00-1359	EA	9/16" Diameter, 304 Stainless Steel Hex Nut	3.02	0.30
05 05 23 00-1360	EA	5/8" Diameter, 304 Stainless Steel Hex Nut	3.38	0.30
05 05 23 00-1361	EA	3/4" Diameter, 304 Stainless Steel Hex Nut	3.90	0.60
05 05 23 00-1362	EA	7/8" Diameter, 304 Stainless Steel Hex Nut	6.53	0.60
05 05 23 00-1363	EA	1" Diameter, 304 Stainless Steel Hex Nut	10.09	0.60
05 05 23 00-1364	EA	1-1/4" Diameter, 304 Stainless Steel Hex Nut	24.53	0.60
05 05 23 00-1365	EA	1-1/2" Diameter, 304 Stainless Steel Hex Nut	47.39	0.91
05 05 23 00-1366	EA	1-3/4" Diameter, 304 Stainless Steel Hex Nut	83.60	0.91
05 05 23 00-1367	EA	2" Diameter, 304 Stainless Steel Hex Nut	119.28	0.91
05 05 23 00-1368		316 Stainless Steel Hex Nuts (05 05 23 00-1284)		
05 05 23 00-1369	EA	1/4" Diameter, 316 Stainless Steel Hex Nut	1.00	0.30
05 05 23 00-1370	EA	5/16" Diameter, 316 Stainless Steel Hex Nut	1.15	0.30
05 05 23 00-1371	EA	3/8" Diameter, 316 Stainless Steel Hex Nut	1.39	0.30
05 05 23 00-1372	EA	7/16" Diameter, 316 Stainless Steel Hex Nut	2.38	0.30
05 05 23 00-1373	EA	1/2" Diameter, 316 Stainless Steel Hex Nut	2.56	0.30
05 05 23 00-1374	EA	9/16" Diameter, 316 Stainless Steel Hex Nut	3.55	0.30
05 05 23 00-1375	EA	5/8" Diameter, 316 Stainless Steel Hex Nut	4.03	0.30
05 05 23 00-1376	EA	3/4" Diameter, 316 Stainless Steel Hex Nut	5.69	0.60
05 05 23 00-1377	EA	7/8" Diameter, 316 Stainless Steel Hex Nut	7.99	0.60
05 05 23 00-1378	EA	1" Diameter, 316 Stainless Steel Hex Nut	12.41	0.60
05 05 23 00-1379	EA	1-1/4" Diameter, 316 Stainless Steel Hex Nut	38.22	0.60
05 05 23 00-1380	EA	1-1/2" Diameter, 316 Stainless Steel Hex Nut	61.98	0.91
05 05 23 00-1381	EA	1-3/4" Diameter, 316 Stainless Steel Hex Nut	104.85	0.91
05 05 23 00-1382	EA	2" Diameter, 316 Stainless Steel Hex Nut	195.22	0.91
05 05 23 00-1383		Flat Washers (05 05 23 00-1283)		
05 05 23 00-1384		Zinc Plated Steel, Low Carbon Flat Washers (05 05 23 00-1383)		
05 05 23 00-1385	EA	1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.04	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1386 EA 5/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.06	
05 05 23 00-1387 EA 3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.11	
05 05 23 00-1388 EA 7/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.17	
05 05 23 00-1389 EA 1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.24	
05 05 23 00-1390 EA 9/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.27	
05 05 23 00-1391 EA 5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.46	
05 05 23 00-1392 EA 3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.66	
05 05 23 00-1393 EA 7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.79	
05 05 23 00-1394 EA 1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.97	
05 05 23 00-1395 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.09	
05 05 23 00-1396 EA 1-1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.31	
05 05 23 00-1397 EA 1-3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.05	
05 05 23 00-1398 EA 1-1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.10	
05 05 23 00-1399 EA 1-3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	3.11	
05 05 23 00-1400 EA 2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	3.86	
05 05 23 00-1401 Zinc Plated Steel, Hardened Flat Washers (05 05 23 00-1383)		
05 05 23 00-1402 EA 1/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	0.14	
05 05 23 00-1403 EA 5/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	0.20	
05 05 23 00-1404 EA 3/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	0.22	
05 05 23 00-1405 EA 7/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	0.30	
05 05 23 00-1406 EA 1/2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	0.41	
05 05 23 00-1407 EA 9/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	0.66	
05 05 23 00-1408 EA 5/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	0.95	
05 05 23 00-1409 EA 3/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	1.34	
05 05 23 00-1410 EA 7/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	2.23	
05 05 23 00-1411 EA 1" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	2.47	
05 05 23 00-1412 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	3.60	
05 05 23 00-1413 EA 1-1/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	3.93	
05 05 23 00-1414 EA 1-3/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	5.18	
05 05 23 00-1415 EA 1-1/2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	5.92	
05 05 23 00-1416 EA 1-3/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	7.96	
05 05 23 00-1417 EA 2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer	9.56	
05 05 23 00-1418 Hot Dipped Galvanized Steel Flat Washers (05 05 23 00-1383)		
05 05 23 00-1419 EA 1/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	0.09	
05 05 23 00-1420 EA 5/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	0.13	
05 05 23 00-1421 EA 3/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	0.15	
05 05 23 00-1422 EA 7/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	0.28	
05 05 23 00-1423 EA 1/2" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	0.36	
05 05 23 00-1424 EA 9/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	0.58	
05 05 23 00-1425 EA 5/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	0.65	
05 05 23 00-1426 EA 3/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	0.99	
05 05 23 00-1427 EA 7/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	1.39	
05 05 23 00-1428 EA 1" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	1.53	
05 05 23 00-1429 EA 1-1/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	2.34	
05 05 23 00-1430 EA 1-1/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	2.60	
05 05 23 00-1431 EA 1-3/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	3.72	
05 05 23 00-1432 EA 1-1/2" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	4.02	
05 05 23 00-1433 EA 1-3/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer	5.84	
05 05 23 00-1434 304/18-8 Stainless Steel Flat Washers (05 05 23 00-1383)		
05 05 23 00-1435 EA 1/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	0.18	
05 05 23 00-1436 EA 5/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	0.24	
05 05 23 00-1437 EA 3/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	0.34	
05 05 23 00-1438 EA 7/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	0.63	
05 05 23 00-1439 EA 1/2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	1.15	
05 05 23 00-1440 EA 9/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	1.44	
05 05 23 00-1441 EA 5/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	2.11	
05 05 23 00-1442 EA 3/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	2.15	
05 05 23 00-1443 EA 7/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	4.53	
05 05 23 00-1444 EA 1" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	5.74	
05 05 23 00-1445 EA 1-1/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	6.68	
05 05 23 00-1446 EA 1-1/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	7.20	
05 05 23 00-1447 EA 1-3/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	7.60	
05 05 23 00-1448 EA 1-1/2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	9.27	
05 05 23 00-1449 EA 1-3/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	11.52	
05 05 23 00-1450 EA 2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer	22.64	
05 05 23 00-1451 316 Stainless Steel Flat Washers (05 05 23 00-1383)		
05 05 23 00-1452 EA 1/4" Inside Diameter, 316 Stainless Steel Flat Washer	0.35	
05 05 23 00-1453 EA 5/16" Inside Diameter, 316 Stainless Steel Flat Washer	0.38	
05 05 23 00-1454 EA 3/8" Inside Diameter, 316 Stainless Steel Flat Washer	0.68	
05 05 23 00-1455 EA 7/16" Inside Diameter, 316 Stainless Steel Flat Washer	0.81	
05 05 23 00-1456 EA 1/2" Inside Diameter, 316 Stainless Steel Flat Washer	1.50	
05 05 23 00-1457 EA 9/16" Inside Diameter, 316 Stainless Steel Flat Washer	2.69	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1458	EA	5/8" Inside Diameter, 316 Stainless Steel Flat Washer	3.17	
05 05 23 00-1459	EA	3/4" Inside Diameter, 316 Stainless Steel Flat Washer	3.99	
05 05 23 00-1460	EA	7/8" Inside Diameter, 316 Stainless Steel Flat Washer	6.18	
05 05 23 00-1461	EA	1" Inside Diameter, 316 Stainless Steel Flat Washer	6.91	
05 05 23 00-1462	EA	1-1/8" Inside Diameter, 316 Stainless Steel Flat Washer	7.87	
05 05 23 00-1463	EA	1-1/4" Inside Diameter, 316 Stainless Steel Flat Washer	9.70	
05 05 23 00-1464	EA	1-3/8" Inside Diameter, 316 Stainless Steel Flat Washer	10.25	
05 05 23 00-1465	EA	1-1/2" Inside Diameter, 316 Stainless Steel Flat Washer	10.48	
05 05 23 00-1466	EA	1-3/4" Inside Diameter, 316 Stainless Steel Flat Washer	15.36	
05 05 23 00-1467		Lock Washers (05 05 23 00-1283)		
05 05 23 00-1468		Zinc Plated Steel, Low Carbon Lock Washers (05 05 23 00-1467)		
05 05 23 00-1469	EA	1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.02	
05 05 23 00-1470	EA	5/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.03	
05 05 23 00-1471	EA	3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.04	
05 05 23 00-1472	EA	7/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.07	
05 05 23 00-1473	EA	1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.09	
05 05 23 00-1474	EA	9/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.15	
05 05 23 00-1475	EA	5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.17	
05 05 23 00-1476	EA	3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.26	
05 05 23 00-1477	EA	7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.44	
05 05 23 00-1478	EA	1" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	0.79	
05 05 23 00-1479	EA	1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	1.16	
05 05 23 00-1480	EA	1-1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	1.77	
05 05 23 00-1481	EA	1-3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	2.80	
05 05 23 00-1482	EA	1-1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	3.30	
05 05 23 00-1483	EA	1-3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	5.89	
05 05 23 00-1484	EA	2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer	6.64	
05 05 23 00-1485		Hot Dipped Galvanized Steel Lock Washers (05 05 23 00-1467)		
05 05 23 00-1486	EA	1/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.07	
05 05 23 00-1487	EA	5/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.09	
05 05 23 00-1488	EA	3/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.11	
05 05 23 00-1489	EA	7/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.12	
05 05 23 00-1490	EA	1/2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.20	
05 05 23 00-1491	EA	9/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.25	
05 05 23 00-1492	EA	5/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.30	
05 05 23 00-1493	EA	3/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.51	
05 05 23 00-1494	EA	7/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	0.73	
05 05 23 00-1495	EA	1" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	1.16	
05 05 23 00-1496	EA	1-1/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	2.09	
05 05 23 00-1497	EA	1-1/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	2.50	
05 05 23 00-1498	EA	1-3/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	3.60	
05 05 23 00-1499	EA	1-1/2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	4.12	
05 05 23 00-1500	EA	1-3/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	5.57	
05 05 23 00-1501	EA	2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer	7.59	
05 05 23 00-1502		304/18-8 Stainless Steel Lock Washers (05 05 23 00-1467)		
05 05 23 00-1503	EA	1/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.15	
05 05 23 00-1504	EA	5/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.21	
05 05 23 00-1505	EA	3/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.30	
05 05 23 00-1506	EA	7/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.55	
05 05 23 00-1507	EA	1/2" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	0.61	
05 05 23 00-1508	EA	9/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	1.48	
05 05 23 00-1509	EA	5/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	1.75	
05 05 23 00-1510	EA	3/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	2.04	
05 05 23 00-1511	EA	7/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	3.69	
05 05 23 00-1512	EA	1" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	5.20	
05 05 23 00-1513	EA	1-1/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	9.08	
05 05 23 00-1514	EA	1-1/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	12.08	
05 05 23 00-1515	EA	1-3/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	15.36	
05 05 23 00-1516	EA	1-1/2" Inside Diameter, 304/18-8 Stainless Steel Lock Washer	18.43	
05 05 23 00-1517		316 Stainless Steel Lock Washers (05 05 23 00-1467)		
05 05 23 00-1518	EA	1/4" Inside Diameter, 316 Stainless Steel Lock Washer	0.18	
05 05 23 00-1519	EA	5/16" Inside Diameter, 316 Stainless Steel Lock Washer	0.40	
05 05 23 00-1520	EA	3/8" Inside Diameter, 316 Stainless Steel Lock Washer	0.46	
05 05 23 00-1521	EA	7/16" Inside Diameter, 316 Stainless Steel Lock Washer	0.80	
05 05 23 00-1522	EA	1/2" Inside Diameter, 316 Stainless Steel Lock Washer	0.88	
05 05 23 00-1523	EA	9/16" Inside Diameter, 316 Stainless Steel Lock Washer	1.58	
05 05 23 00-1524	EA	5/8" Inside Diameter, 316 Stainless Steel Lock Washer	1.73	
05 05 23 00-1525	EA	3/4" Inside Diameter, 316 Stainless Steel Lock Washer	3.00	
05 05 23 00-1526	EA	7/8" Inside Diameter, 316 Stainless Steel Lock Washer	4.95	
05 05 23 00-1527	EA	1" Inside Diameter, 316 Stainless Steel Lock Washer	6.74	
05 05 23 00-1528	EA	1-1/8" Inside Diameter, 316 Stainless Steel Lock Washer	9.41	
05 05 23 00-1529	EA	1-1/4" Inside Diameter, 316 Stainless Steel Lock Washer	14.48	

05 Metals**05 05 Common Work Results for Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1530 EA 1-3/8" Inside Diameter, 316 Stainless Steel Lock Washer.....	25.92	
05 05 23 00-1531 EA 1-1/2" Inside Diameter, 316 Stainless Steel Lock Washer.....	28.78	
05 05 23 00-1532 Load Indicating Washers (05 05 23 00-1283)		
05 05 23 00-1533 A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) (05 05 23 00-1532)		
05 05 23 00-1534 Plain Finish, A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) (05 05 23 00-1533)		
05 05 23 00-1535 EA 1/2", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	1.92	
05 05 23 00-1536 EA 5/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	2.18	
05 05 23 00-1537 EA 3/4", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	2.35	
05 05 23 00-1538 EA 7/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	2.66	
05 05 23 00-1539 EA 1", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	3.22	
05 05 23 00-1540 EA 1-1/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	5.35	
05 05 23 00-1541 EA 1-1/4", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	6.91	
05 05 23 00-1542 EA 1-3/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	8.82	
05 05 23 00-1543 EA 1-1/2", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	9.70	
05 05 23 00-1544 Galvanized, A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959) (05 05 23 00-1533)		
05 05 23 00-1545 EA 1/2", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	2.43	
05 05 23 00-1546 EA 5/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	2.71	
05 05 23 00-1547 EA 3/4", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	2.63	
05 05 23 00-1548 EA 7/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	3.22	
05 05 23 00-1549 EA 1", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	3.81	
05 05 23 00-1550 EA 1-1/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	5.74	
05 05 23 00-1551 EA 1-1/4", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	7.23	
05 05 23 00-1552 EA 1-3/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	10.29	
05 05 23 00-1553 EA 1-1/2", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	11.32	
05 05 23 00-1554 Beveled Washers (05 05 23 00-1283)		
05 05 23 00-1555 Plain Finish, Square Beveled Structural Washers (ASTM F436) (05 05 23 00-1554)		
05 05 23 00-1556 EA 1/2", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	3.17	
05 05 23 00-1557 EA 5/8", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	3.24	
05 05 23 00-1558 EA 3/4", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	3.31	
05 05 23 00-1559 EA 7/8", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	4.02	
05 05 23 00-1560 EA 1", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	4.24	
05 05 23 00-1561 Galvanized, Square Beveled Structural Washers (ASTM F436) (05 05 23 00-1554)		
05 05 23 00-1562 EA 1/2", Galvanized, Square Beveled Structural Washer (ASTM F436).....	4.57	
05 05 23 00-1563 EA 5/8", Galvanized, Square Beveled Structural Washer (ASTM F436).....	4.77	
05 05 23 00-1564 EA 3/4", Galvanized, Square Beveled Structural Washer (ASTM F436).....	4.77	
05 05 23 00-1565 EA 7/8", Galvanized, Square Beveled Structural Washer (ASTM F436).....	5.04	
05 05 23 00-1566 EA 1", Galvanized, Square Beveled Structural Washer (ASTM F436).....	5.36	
05 05 23 00-1567 Drilling In Steel Plates (05 05 23)		
05 05 23 00-1568 EA Up To 1/2" Diameter Drill Through Up To 1/4" Steel Plate.....	20.29	
For Aluminum, Deduct	-2.03	
For Stainless Steel, Add	2.54	
For >5 To 10, Deduct	-2.03	
For >10 To 25, Deduct	-5.07	
For >25 To 50, Deduct	-7.10	
For >50, Deduct	-10.15	
05 05 23 00-1569 EA >1/2" To 7/8" Diameter Drill Through Up To 1/4" Steel Plate.....	23.88	
For Aluminum, Deduct	-2.39	
For Stainless Steel, Add	2.99	
For >5 To 10, Deduct	-2.39	
For >10 To 25, Deduct	-5.97	
For >25 To 50, Deduct	-8.36	
For >50, Deduct	-11.94	
05 05 23 00-1570 EA >7/8" To 1-1/2" Diameter Drill Through Up To 1/4" Steel Plate.....	28.65	
For Aluminum, Deduct	-2.87	
For Stainless Steel, Add	3.58	
For >5 To 10, Deduct	-2.87	
For >10 To 25, Deduct	-7.16	
For >25 To 50, Deduct	-10.03	
For >50, Deduct	-14.33	
05 05 23 00-1571 EA >1-1/2" To 4" Diameter Drill Through Up To 1/4" Steel Plate.....	33.43	
For Aluminum, Deduct	-3.34	
For Stainless Steel, Add	4.18	
For >5 To 10, Deduct	-3.34	
For >10 To 25, Deduct	-8.36	
For >25 To 50, Deduct	-11.70	
For >50, Deduct	-16.72	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1572	EA	>4" To 10" Diameter Drill Through Up To 1/4" Steel Plate.....	44.77	
		For Aluminum, Deduct	-4.48	
		For Stainless Steel, Add	5.60	
		For >5 To 10, Deduct	-4.48	
		For >10 To 25, Deduct	-11.19	
		For >25 To 50, Deduct	-15.67	
		For >50, Deduct	-22.39	
05 05 23 00-1573	EA	Up To 1/2" Diameter Drill Through >1/4" To 1/2" Steel Plate.....	23.88	
		For Aluminum, Deduct	-2.39	
		For Stainless Steel, Add	2.99	
		For >5 To 10, Deduct	-2.39	
		For >10 To 25, Deduct	-5.97	
		For >25 To 50, Deduct	-8.36	
		For >50, Deduct	-11.94	
05 05 23 00-1574	EA	>1/2" To 7/8" Diameter Drill Through >1/4" To 1/2" Steel Plate.....	29.84	
		For Aluminum, Deduct	-2.98	
		For Stainless Steel, Add	3.73	
		For >5 To 10, Deduct	-2.98	
		For >10 To 25, Deduct	-7.46	
		For >25 To 50, Deduct	-10.44	
		For >50, Deduct	-14.92	
05 05 23 00-1575	EA	>7/8" To 1-1/2" Diameter Drill Through >1/4" To 1/2" Steel Plate.....	35.81	
		For Aluminum, Deduct	-3.58	
		For Stainless Steel, Add	4.48	
		For >5 To 10, Deduct	-3.58	
		For >10 To 25, Deduct	-8.95	
		For >25 To 50, Deduct	-12.53	
		For >50, Deduct	-17.91	
05 05 23 00-1576	EA	>1-1/2" To 4" Diameter Drill Through >1/4" To 1/2" Steel Plate.....	44.77	
		For Aluminum, Deduct	-4.48	
		For Stainless Steel, Add	5.60	
		For >5 To 10, Deduct	-4.48	
		For >10 To 25, Deduct	-11.19	
		For >25 To 50, Deduct	-15.67	
		For >50, Deduct	-22.39	
05 05 23 00-1577	EA	Up To 1/2" Diameter Drill Through >1/2" To 1" Steel Plate.....	29.84	
		For Aluminum, Deduct	-2.98	
		For Stainless Steel, Add	3.73	
		For >5 To 10, Deduct	-2.98	
		For >10 To 25, Deduct	-7.46	
		For >25 To 50, Deduct	-10.44	
		For >50, Deduct	-14.92	
05 05 23 00-1578	EA	>1/2" To 7/8" Diameter Drill Through >1/2" To 1" Steel Plate.....	39.40	
		For Aluminum, Deduct	-3.94	
		For Stainless Steel, Add	4.93	
		For >5 To 10, Deduct	-3.94	
		For >10 To 25, Deduct	-9.85	
		For >25 To 50, Deduct	-13.79	
		For >50, Deduct	-19.70	
05 05 23 00-1579	EA	>7/8" To 1-1/2" Diameter Drill Through >1/2" To 1" Steel Plate.....	47.75	
		For Aluminum, Deduct	-4.78	
		For Stainless Steel, Add	5.97	
		For >5 To 10, Deduct	-4.78	
		For >10 To 25, Deduct	-11.94	
		For >25 To 50, Deduct	-16.71	
		For >50, Deduct	-23.88	

05 50 Metal Fabrications (05)

05 52 Metal Railings (05 50)

05 52 13 Pipe and Tube Railings (05 52)

Note: Includes embedded steel sleeves, grouting, connection bolts (where necessary) and drilling of bolt (where necessary).

05 52 13 00-0001 Welded Steel Pipe Railing (05 52 13)
Note: Includes field welds and touch-up of welds.

05 52 13 00-0002 One Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)
Note: Includes factory primed posts and one rail.

05 Metals**05 50 Metal Fabrications****05 52 Metal Railings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0003	LF		1" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	36.69	10.58
			For Schedule 80 Handrail, Add	5.80	
			For 11 Gauge A513 Steel Tubing, Deduct	-3.42	
			For 12 Gauge A513 Steel Tubing, Deduct	-3.89	
			For 14 Gauge A513 Steel Tubing, Deduct	-5.13	
			For 16 Gauge A513 Steel Tubing, Deduct	-6.06	
			For Additional Off Set Handrail, ADA Attachment, Add	13.56	
			For Aluminum, Satin Finish, Add	6.53	
			For Aluminum, Clear Anodized Finish, Add	10.11	
			For Aluminum, Dark Anodized Finish, Add	11.66	
			For Galvanizing, Add	6.22	
			For Wrought Iron, Add	3.67	
			For Solid Steel Rails, Add	7.34	
			For 304 Stainless Steel, Add	49.76	
			For 316 Stainless Steel, Add	55.98	
			For 2" Wheel Guard, Add	1.48	
			For 4" High Kick Plate, Add	1.94	
			For 6" High Kick Plate, Add	3.11	
			For Curved Rail, Add	15.67	
			For Mounting On Stairs, Add	11.01	
			For Mounting On Slopes, Add	3.67	
			For Post Base Flange With Screws, Add Per Post	19.61	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.67	
			For Custom Design Or Shapes (Square Tops, etc), Add	13.06	
			For Nylon Coating, Add	2.33	
05 52 13 00-0004	LF		1-1/4" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing	39.37	10.58
			For Schedule 80 Handrail, Add	9.54	
			For 11 Gauge A513 Steel Tubing, Deduct	-4.01	
			For 12 Gauge A513 Steel Tubing, Deduct	-4.56	
			For 14 Gauge A513 Steel Tubing, Deduct	-6.02	
			For 16 Gauge A513 Steel Tubing, Deduct	-7.11	
			For Additional Off Set Handrail, ADA Attachment, Add	15.17	
			For Aluminum, Satin Finish, Add	7.66	
			For Aluminum, Clear Anodized Finish, Add	11.85	
			For Aluminum, Dark Anodized Finish, Add	13.67	
			For Galvanizing, Add	7.29	
			For Wrought Iron, Add	3.94	
			For Solid Steel Rails, Add	7.87	
			For 304 Stainless Steel, Add	58.34	
			For 316 Stainless Steel, Add	65.63	
			For 2" Wheel Guard, Add	1.73	
			For 4" High Kick Plate, Add	2.28	
			For 6" High Kick Plate, Add	3.65	
			For Curved Rail, Add	17.28	
			For Mounting On Stairs, Add	11.81	
			For Mounting On Slopes, Add	3.94	
			For Post Base Flange With Screws, Add Per Post	19.61	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.67	
			For Custom Design Or Shapes (Square Tops, etc), Add	14.40	
			For Nylon Coating, Add	2.73	
05 52 13 00-0005	LF		1-1/2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing	42.05	10.58
			For Schedule 80 Handrail, Add	9.54	
			For 11 Gauge A513 Steel Tubing, Deduct	-4.60	
			For 12 Gauge A513 Steel Tubing, Deduct	-5.23	
			For 14 Gauge A513 Steel Tubing, Deduct	-6.90	
			For 16 Gauge A513 Steel Tubing, Deduct	-8.15	
			For Additional Off Set Handrail, ADA Attachment, Add	16.77	
			For Aluminum, Satin Finish, Add	8.78	
			For Aluminum, Clear Anodized Finish, Add	13.59	
			For Aluminum, Dark Anodized Finish, Add	15.68	
			For Galvanizing, Add	8.36	
			For Wrought Iron, Add	4.21	
			For Solid Steel Rails, Add	8.41	
			For 304 Stainless Steel, Add	66.91	
			For 316 Stainless Steel, Add	75.28	
			For 2" Wheel Guard, Add	1.99	
			For 4" High Kick Plate, Add	2.61	
			For 6" High Kick Plate, Add	4.18	
			For Curved Rail, Add	18.89	
			For Mounting On Stairs, Add	12.62	
			For Mounting On Slopes, Add	4.21	
			For Post Base Flange With Screws, Add Per Post	19.61	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.67	
			For Custom Design Or Shapes (Square Tops, etc), Add	15.74	
			For Nylon Coating, Add	3.14	



		Metals	05	05
		Metal Fabrications	05 50	
		Metal Railings	05 52	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0006	LF		2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	46.69	10.58
			For Schedule 80 Handrail, Add	11.06	
			For 11 Gauge A513 Steel Tubing, Deduct	-5.62	
			For 12 Gauge A513 Steel Tubing, Deduct	-6.39	
			For 14 Gauge A513 Steel Tubing, Deduct	-8.43	
			For 16 Gauge A513 Steel Tubing, Deduct	-9.96	
			For Additional Off Set Handrail, ADA Attachment, Add	19.56	
			For Aluminum, Satin Finish, Add	10.73	
			For Aluminum, Clear Anodized Finish, Add	16.61	
			For Aluminum, Dark Anodized Finish, Add	19.16	
			For Galvanizing, Add	10.22	
			For Wrought Iron, Add	4.67	
			For Solid Steel Rails, Add	9.34	
			For 304 Stainless Steel, Add	81.76	
			For 316 Stainless Steel, Add	91.98	
			For 2" Wheel Guard, Add	2.43	
			For 4" High Kick Plate, Add	3.19	
			For 6" High Kick Plate, Add	5.11	
			For Curved Rail, Add	21.67	
			For Mounting On Stairs, Add	14.01	
			For Mounting On Slopes, Add	4.67	
			For Post Base Flange With Screws, Add Per Post	19.61	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.67	
			For Custom Design Or Shapes (Square Tops, etc), Add	18.06	
			For Nylon Coating, Add	3.83	
05 52 13 00-0007	LF		2-1/2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing	52.26	10.58
			For Schedule 80 Handrail, Add	12.59	
			For 11 Gauge A513 Steel Tubing, Deduct	-6.85	
			For 12 Gauge A513 Steel Tubing, Deduct	-7.78	
			For 14 Gauge A513 Steel Tubing, Deduct	-10.27	
			For 16 Gauge A513 Steel Tubing, Deduct	-12.14	
			For Additional Off Set Handrail, ADA Attachment, Add	22.90	
			For Aluminum, Satin Finish, Add	13.07	
			For Aluminum, Clear Anodized Finish, Add	20.23	
			For Aluminum, Dark Anodized Finish, Add	23.34	
			For Galvanizing, Add	12.45	
			For Wrought Iron, Add	5.23	
			For Solid Steel Rails, Add	10.45	
			For 304 Stainless Steel, Add	99.58	
			For 316 Stainless Steel, Add	112.03	
			For 2" Wheel Guard, Add	2.96	
			For 4" High Kick Plate, Add	3.89	
			For 6" High Kick Plate, Add	6.22	
			For Curved Rail, Add	25.01	
			For Mounting On Stairs, Add	15.68	
			For Mounting On Slopes, Add	5.23	
			For Post Base Flange With Screws, Add Per Post	19.61	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.67	
			For Custom Design Or Shapes (Square Tops, etc), Add	20.85	
			For Nylon Coating, Add	4.67	
05 52 13 00-0008			Two Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)		
			Note: Includes factory primed posts and two rails.		
05 52 13 00-0009	LF		1" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	48.35	10.58
			For Schedule 80 Handrail, Add	5.80	
			For 11 Gauge A513 Steel Tubing, Deduct	-5.99	
			For 12 Gauge A513 Steel Tubing, Deduct	-6.80	
			For 14 Gauge A513 Steel Tubing, Deduct	-8.98	
			For 16 Gauge A513 Steel Tubing, Deduct	-10.61	
			For Additional Off Set Handrail, ADA Attachment, Add	13.56	
			For Aluminum, Satin Finish, Add	11.43	
			For Aluminum, Clear Anodized Finish, Add	17.69	
			For Aluminum, Dark Anodized Finish, Add	20.41	
			For Galvanizing, Add	10.88	
			For Wrought Iron, Add	4.84	
			For Solid Steel Rails, Add	9.67	
			For 304 Stainless Steel, Add	87.07	
			For 316 Stainless Steel, Add	97.96	
			For 2" Wheel Guard, Add	2.58	
			For 4" High Kick Plate, Add	3.40	
			For 6" High Kick Plate, Add	5.44	
			For Curved Rail, Add	22.67	
			For Mounting On Stairs, Add	14.51	
			For Mounting On Slopes, Add	4.84	
			For Post Base Flange With Screws, Add Per Post	19.61	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.67	
			For Custom Design Or Shapes (Square Tops, etc), Add	18.89	
			For Nylon Coating, Add	4.08	

05 Metals**05 50 Metal Fabrications****05 52 Metal Railings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0010 LF 1-1/4" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing	53.04	10.58
For Schedule 80 Handrail, Add	9.54	
For 11 Gauge A513 Steel Tubing, Deduct	-7.02	
For 12 Gauge A513 Steel Tubing, Deduct	-7.98	
For 14 Gauge A513 Steel Tubing, Deduct	-10.53	
For 16 Gauge A513 Steel Tubing, Deduct	-12.44	
For Additional Off Set Handrail, ADA Attachment, Add	15.17	
For Aluminum, Satin Finish, Add	13.40	
For Aluminum, Clear Anodized Finish, Add	20.74	
For Aluminum, Dark Anodized Finish, Add	23.93	
For Galvanizing, Add	12.76	
For Wrought Iron, Add	5.30	
For Solid Steel Rails, Add	10.61	
For 304 Stainless Steel, Add	102.08	
For 316 Stainless Steel, Add	114.84	
For 2" Wheel Guard, Add	3.03	
For 4" High Kick Plate, Add	3.99	
For 6" High Kick Plate, Add	6.38	
For Curved Rail, Add	25.48	
For Mounting On Stairs, Add	15.91	
For Mounting On Slopes, Add	5.30	
For Post Base Flange With Screws, Add Per Post	19.61	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.67	
For Custom Design Or Shapes (Square Tops, etc), Add	21.24	
For Nylon Coating, Add	4.79	
05 52 13 00-0011 LF 1-1/2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing	57.72	10.58
For Schedule 80 Handrail, Add	9.54	
For 11 Gauge A513 Steel Tubing, Deduct	-8.05	
For 12 Gauge A513 Steel Tubing, Deduct	-9.15	
For 14 Gauge A513 Steel Tubing, Deduct	-12.07	
For 16 Gauge A513 Steel Tubing, Deduct	-14.27	
For Additional Off Set Handrail, ADA Attachment, Add	16.77	
For Aluminum, Satin Finish, Add	15.36	
For Aluminum, Clear Anodized Finish, Add	23.78	
For Aluminum, Dark Anodized Finish, Add	27.44	
For Galvanizing, Add	14.63	
For Wrought Iron, Add	5.77	
For Solid Steel Rails, Add	11.54	
For 304 Stainless Steel, Add	117.06	
For 316 Stainless Steel, Add	131.69	
For 2" Wheel Guard, Add	3.48	
For 4" High Kick Plate, Add	4.57	
For 6" High Kick Plate, Add	7.32	
For Curved Rail, Add	28.29	
For Mounting On Stairs, Add	17.32	
For Mounting On Slopes, Add	5.77	
For Post Base Flange With Screws, Add Per Post	19.61	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.67	
For Custom Design Or Shapes (Square Tops, etc), Add	23.58	
For Nylon Coating, Add	5.49	
05 52 13 00-0012 LF 2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	65.85	10.58
For Schedule 80 Handrail, Add	11.06	
For 11 Gauge A513 Steel Tubing, Deduct	-9.84	
For 12 Gauge A513 Steel Tubing, Deduct	-11.18	
For 14 Gauge A513 Steel Tubing, Deduct	-14.75	
For 16 Gauge A513 Steel Tubing, Deduct	-17.44	
For Additional Off Set Handrail, ADA Attachment, Add	19.56	
For Aluminum, Satin Finish, Add	18.78	
For Aluminum, Clear Anodized Finish, Add	29.06	
For Aluminum, Dark Anodized Finish, Add	33.53	
For Galvanizing, Add	17.88	
For Wrought Iron, Add	6.59	
For Solid Steel Rails, Add	13.17	
For 304 Stainless Steel, Add	143.07	
For 316 Stainless Steel, Add	160.96	
For 2" Wheel Guard, Add	4.25	
For 4" High Kick Plate, Add	5.59	
For 6" High Kick Plate, Add	8.94	
For Curved Rail, Add	33.17	
For Mounting On Stairs, Add	19.76	
For Mounting On Slopes, Add	6.59	
For Post Base Flange With Screws, Add Per Post	19.61	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.67	
For Custom Design Or Shapes (Square Tops, etc), Add	27.64	
For Nylon Coating, Add	6.71	



	Metals	05	05
	Metal Fabrications	05 50	
	Metal Railings	05 52	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0013	LF		2-1/2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing	75.59	10.58
			For Schedule 80 Handrail, Add	12.59	
			For 11 Gauge A513 Steel Tubing, Deduct	-11.98	
			For 12 Gauge A513 Steel Tubing, Deduct	-13.61	
			For 14 Gauge A513 Steel Tubing, Deduct	-17.97	
			For 16 Gauge A513 Steel Tubing, Deduct	-21.24	
			For Additional Off Set Handrail, ADA Attachment, Add	22.90	
			For Aluminum, Satin Finish, Add	22.87	
			For Aluminum, Clear Anodized Finish, Add	35.39	
			For Aluminum, Dark Anodized Finish, Add	40.84	
			For Galvanizing, Add	21.78	
			For Wrought Iron, Add	7.56	
			For Solid Steel Rails, Add	15.12	
			For 304 Stainless Steel, Add	174.24	
			For 316 Stainless Steel, Add	196.02	
			For 2" Wheel Guard, Add	5.17	
			For 4" High Kick Plate, Add	6.81	
			For 6" High Kick Plate, Add	10.89	
			For Curved Rail, Add	39.01	
			For Mounting On Stairs, Add	22.68	
			For Mounting On Slopes, Add	7.56	
			For Post Base Flange With Screws, Add Per Post	19.61	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.67	
			For Custom Design Or Shapes (Square Tops, etc), Add	32.51	
			For Nylon Coating, Add	8.17	
05 52 13 00-0014			Three Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)		
			Note: Includes factory primed posts and three rails.		
05 52 13 00-0015	LF		1" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing	75.36	12.68
			For Schedule 80 Handrail, Add	8.27	
			For 11 Gauge A513 Steel Tubing, Deduct	-11.00	
			For 12 Gauge A513 Steel Tubing, Deduct	-12.50	
			For 14 Gauge A513 Steel Tubing, Deduct	-16.50	
			For 16 Gauge A513 Steel Tubing, Deduct	-19.50	
			For Additional Off Set Handrail, ADA Attachment, Add	14.40	
			For Aluminum, Satin Finish, Add	21.00	
			For Aluminum, Clear Anodized Finish, Add	32.49	
			For Aluminum, Dark Anodized Finish, Add	37.49	
			For Galvanizing, Add	20.00	
			For Wrought Iron, Add	7.54	
			For Solid Steel Rails, Add	15.07	
			For 304 Stainless Steel, Add	159.97	
			For 316 Stainless Steel, Add	179.96	
			For 2" Wheel Guard, Add	4.75	
			For 4" High Kick Plate, Add	6.25	
			For 6" High Kick Plate, Add	10.00	
			For Curved Rail, Add	37.61	
			For Mounting On Stairs, Add	22.61	
			For Mounting On Slopes, Add	7.54	
			For Post Base Flange With Screws, Add Per Post	20.04	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.31	
			For Custom Design Or Shapes (Square Tops, etc), Add	31.34	
			For Nylon Coating, Add	7.50	
05 52 13 00-0016	LF		1-1/4" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing	83.97	12.68
			For Schedule 80 Handrail, Add	13.27	
			For 11 Gauge A513 Steel Tubing, Deduct	-12.89	
			For 12 Gauge A513 Steel Tubing, Deduct	-14.65	
			For 14 Gauge A513 Steel Tubing, Deduct	-19.34	
			For 16 Gauge A513 Steel Tubing, Deduct	-22.85	
			For Additional Off Set Handrail, ADA Attachment, Add	16.01	
			For Aluminum, Satin Finish, Add	24.61	
			For Aluminum, Clear Anodized Finish, Add	38.09	
			For Aluminum, Dark Anodized Finish, Add	43.95	
			For Galvanizing, Add	23.44	
			For Wrought Iron, Add	8.40	
			For Solid Steel Rails, Add	16.79	
			For 304 Stainless Steel, Add	187.52	
			For 316 Stainless Steel, Add	210.96	
			For 2" Wheel Guard, Add	5.57	
			For 4" High Kick Plate, Add	7.33	
			For 6" High Kick Plate, Add	11.72	
			For Curved Rail, Add	42.77	
			For Mounting On Stairs, Add	25.19	
			For Mounting On Slopes, Add	8.40	
			For Post Base Flange With Screws, Add Per Post	20.04	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.31	
			For Custom Design Or Shapes (Square Tops, etc), Add	35.64	
			For Nylon Coating, Add	8.79	

05 Metals**05 50 Metal Fabrications****05 52 Metal Railings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0017	LF		1-1/2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	92.58	12.68
			For Schedule 80 Handrail, Add	13.27	
			For 11 Gauge A513 Steel Tubing, Deduct	-14.79	
			For 12 Gauge A513 Steel Tubing, Deduct	-16.80	
			For 14 Gauge A513 Steel Tubing, Deduct	-22.18	
			For 16 Gauge A513 Steel Tubing, Deduct	-26.21	
			For Additional Off Set Handrail, ADA Attachment, Add	17.61	
			For Aluminum, Satin Finish, Add	28.23	
			For Aluminum, Clear Anodized Finish, Add	43.69	
			For Aluminum, Dark Anodized Finish, Add	50.41	
			For Galvanizing, Add	26.88	
			For Wrought Iron, Add	9.26	
			For Solid Steel Rails, Add	18.52	
			For 304 Stainless Steel, Add	215.07	
			For 316 Stainless Steel, Add	241.96	
			For 2" Wheel Guard, Add	6.38	
			For 4" High Kick Plate, Add	8.40	
			For 6" High Kick Plate, Add	13.44	
			For Curved Rail, Add	47.94	
			For Mounting On Stairs, Add	27.77	
			For Mounting On Slopes, Add	9.26	
			For Post Base Flange With Screws, Add Per Post	20.04	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.31	
			For Custom Design Or Shapes (Square Tops, etc), Add	39.95	
			For Nylon Coating, Add	10.08	
05 52 13 00-0018	LF		2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing	107.54	12.68
			For Schedule 80 Handrail, Add	15.28	
			For 11 Gauge A513 Steel Tubing, Deduct	-18.08	
			For 12 Gauge A513 Steel Tubing, Deduct	-20.54	
			For 14 Gauge A513 Steel Tubing, Deduct	-27.12	
			For 16 Gauge A513 Steel Tubing, Deduct	-32.05	
			For Additional Off Set Handrail, ADA Attachment, Add	20.40	
			For Aluminum, Satin Finish, Add	34.51	
			For Aluminum, Clear Anodized Finish, Add	53.41	
			For Aluminum, Dark Anodized Finish, Add	61.63	
			For Galvanizing, Add	32.87	
			For Wrought Iron, Add	10.75	
			For Solid Steel Rails, Add	21.51	
			For 304 Stainless Steel, Add	262.94	
			For 316 Stainless Steel, Add	295.81	
			For 2" Wheel Guard, Add	7.81	
			For 4" High Kick Plate, Add	10.27	
			For 6" High Kick Plate, Add	16.43	
			For Curved Rail, Add	56.91	
			For Mounting On Stairs, Add	32.26	
			For Mounting On Slopes, Add	10.75	
			For Post Base Flange With Screws, Add Per Post	20.04	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.31	
			For Custom Design Or Shapes (Square Tops, etc), Add	47.43	
			For Nylon Coating, Add	12.33	
05 52 13 00-0019	LF		2-1/2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing	125.36	12.68
			For Schedule 80 Handrail, Add	17.33	
			For 11 Gauge A513 Steel Tubing, Deduct	-22.00	
			For 12 Gauge A513 Steel Tubing, Deduct	-25.00	
			For 14 Gauge A513 Steel Tubing, Deduct	-33.00	
			For 16 Gauge A513 Steel Tubing, Deduct	-39.00	
			For Additional Off Set Handrail, ADA Attachment, Add	23.74	
			For Aluminum, Satin Finish, Add	42.00	
			For Aluminum, Clear Anodized Finish, Add	64.99	
			For Aluminum, Dark Anodized Finish, Add	74.99	
			For Galvanizing, Add	40.00	
			For Wrought Iron, Add	12.54	
			For Solid Steel Rails, Add	25.07	
			For 304 Stainless Steel, Add	319.97	
			For 316 Stainless Steel, Add	359.96	
			For 2" Wheel Guard, Add	9.50	
			For 4" High Kick Plate, Add	12.50	
			For 6" High Kick Plate, Add	20.00	
			For Curved Rail, Add	67.61	
			For Mounting On Stairs, Add	37.61	
			For Mounting On Slopes, Add	12.54	
			For Post Base Flange With Screws, Add Per Post	20.04	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.31	
			For Custom Design Or Shapes (Square Tops, etc), Add	56.34	
			For Nylon Coating, Add	15.00	

05 52 13 00-0020 Four Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)

Note: Includes factory primed posts and four rails.



		Metals	05	05
		Metal Fabrications	05 50	
		Metal Railings	05 52	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0021	LF		1" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing.....	90.96	14.80
			For Schedule 80 Handrail, Add	11.02	
			For 11 Gauge A513 Steel Tubing, Deduct	-13.50	
			For 12 Gauge A513 Steel Tubing, Deduct	-15.34	
			For 14 Gauge A513 Steel Tubing, Deduct	-20.25	
			For 16 Gauge A513 Steel Tubing, Deduct	-23.93	
			For Additional Off Set Handrail, ADA Attachment, Add	15.25	
			For Aluminum, Satin Finish, Add	25.77	
			For Aluminum, Clear Anodized Finish, Add	39.88	
			For Aluminum, Dark Anodized Finish, Add	46.02	
			For Galvanizing, Add	24.54	
			For Wrought Iron, Add	9.10	
			For Solid Steel Rails, Add	18.19	
			For 304 Stainless Steel, Add	196.35	
			For 316 Stainless Steel, Add	220.90	
			For 2" Wheel Guard, Add	5.83	
			For 4" High Kick Plate, Add	7.67	
			For 6" High Kick Plate, Add	12.27	
			For Curved Rail, Add	45.70	
			For Mounting On Stairs, Add	27.29	
			For Mounting On Slopes, Add	9.10	
			For Post Base Flange With Screws, Add Per Post	20.46	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.94	
			For Custom Design Or Shapes (Square Tops, etc), Add	38.08	
			For Nylon Coating, Add	9.20	
05 52 13 00-0022	LF		1-1/4" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing.....	98.60	14.80
			For Schedule 80 Handrail, Add	17.26	
			For 11 Gauge A513 Steel Tubing, Deduct	-15.18	
			For 12 Gauge A513 Steel Tubing, Deduct	-17.25	
			For 14 Gauge A513 Steel Tubing, Deduct	-22.77	
			For 16 Gauge A513 Steel Tubing, Deduct	-26.91	
			For Additional Off Set Handrail, ADA Attachment, Add	16.86	
			For Aluminum, Satin Finish, Add	28.98	
			For Aluminum, Clear Anodized Finish, Add	44.85	
			For Aluminum, Dark Anodized Finish, Add	51.75	
			For Galvanizing, Add	27.60	
			For Wrought Iron, Add	9.86	
			For Solid Steel Rails, Add	19.72	
			For 304 Stainless Steel, Add	220.80	
			For 316 Stainless Steel, Add	248.40	
			For 2" Wheel Guard, Add	6.56	
			For 4" High Kick Plate, Add	8.63	
			For 6" High Kick Plate, Add	13.80	
			For Curved Rail, Add	50.28	
			For Mounting On Stairs, Add	29.58	
			For Mounting On Slopes, Add	9.86	
			For Post Base Flange With Screws, Add Per Post	20.46	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.94	
			For Custom Design Or Shapes (Square Tops, etc), Add	41.90	
			For Nylon Coating, Add	10.35	
05 52 13 00-0023	LF		1-1/2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing.....	106.25	14.80
			For Schedule 80 Handrail, Add	17.26	
			For 11 Gauge A513 Steel Tubing, Deduct	-16.86	
			For 12 Gauge A513 Steel Tubing, Deduct	-19.16	
			For 14 Gauge A513 Steel Tubing, Deduct	-25.29	
			For 16 Gauge A513 Steel Tubing, Deduct	-29.89	
			For Additional Off Set Handrail, ADA Attachment, Add	18.46	
			For Aluminum, Satin Finish, Add	32.19	
			For Aluminum, Clear Anodized Finish, Add	49.82	
			For Aluminum, Dark Anodized Finish, Add	57.49	
			For Galvanizing, Add	30.66	
			For Wrought Iron, Add	10.63	
			For Solid Steel Rails, Add	21.25	
			For 304 Stainless Steel, Add	245.28	
			For 316 Stainless Steel, Add	275.94	
			For 2" Wheel Guard, Add	7.28	
			For 4" High Kick Plate, Add	9.58	
			For 6" High Kick Plate, Add	15.33	
			For Curved Rail, Add	54.87	
			For Mounting On Stairs, Add	31.88	
			For Mounting On Slopes, Add	10.63	
			For Post Base Flange With Screws, Add Per Post	20.46	
			For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.94	
			For Custom Design Or Shapes (Square Tops, etc), Add	45.73	
			For Nylon Coating, Add	11.50	

05 Metals**05 50 Metal Fabrications****05 52 Metal Railings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0024 LF 2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	123.27	14.80
For Schedule 80 Handrail, Add	19.78	
For 11 Gauge A513 Steel Tubing, Deduct	-20.61	
For 12 Gauge A513 Steel Tubing, Deduct	-23.42	
For 14 Gauge A513 Steel Tubing, Deduct	-30.91	
For 16 Gauge A513 Steel Tubing, Deduct	-36.53	
For Additional Off Set Handrail, ADA Attachment, Add	21.25	
For Aluminum, Satin Finish, Add	39.34	
For Aluminum, Clear Anodized Finish, Add	60.89	
For Aluminum, Dark Anodized Finish, Add	70.25	
For Galvanizing, Add	37.47	
For Wrought Iron, Add	12.33	
For Solid Steel Rails, Add	24.65	
For 304 Stainless Steel, Add	299.74	
For 316 Stainless Steel, Add	337.21	
For 2" Wheel Guard, Add	8.90	
For 4" High Kick Plate, Add	11.71	
For 6" High Kick Plate, Add	18.73	
For Curved Rail, Add	65.08	
For Mounting On Stairs, Add	36.98	
For Mounting On Slopes, Add	12.33	
For Post Base Flange With Screws, Add Per Post	20.46	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.94	
For Custom Design Or Shapes (Square Tops, etc), Add	54.24	
For Nylon Coating, Add	14.05	
05 52 13 00-0025 LF 2-1/2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing	143.22	14.80
For Schedule 80 Handrail, Add	22.34	
For 11 Gauge A513 Steel Tubing, Deduct	-25.00	
For 12 Gauge A513 Steel Tubing, Deduct	-28.41	
For 14 Gauge A513 Steel Tubing, Deduct	-37.49	
For 16 Gauge A513 Steel Tubing, Deduct	-44.31	
For Additional Off Set Handrail, ADA Attachment, Add	24.59	
For Aluminum, Satin Finish, Add	47.72	
For Aluminum, Clear Anodized Finish, Add	73.85	
For Aluminum, Dark Anodized Finish, Add	85.22	
For Galvanizing, Add	45.45	
For Wrought Iron, Add	14.32	
For Solid Steel Rails, Add	28.64	
For 304 Stainless Steel, Add	363.58	
For 316 Stainless Steel, Add	409.03	
For 2" Wheel Guard, Add	10.79	
For 4" High Kick Plate, Add	14.20	
For 6" High Kick Plate, Add	22.72	
For Curved Rail, Add	77.05	
For Mounting On Stairs, Add	42.97	
For Mounting On Slopes, Add	14.32	
For Post Base Flange With Screws, Add Per Post	20.46	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	30.94	
For Custom Design Or Shapes (Square Tops, etc), Add	64.21	
For Nylon Coating, Add	17.04	
05 52 13 00-0026 Railing Infill Panels (05 52 13)		
Note: Includes field welds and touch-up of welds.		
05 52 13 00-0027 Wire Mesh Or Welded Wire Mesh, Railing Infill Panels (05 52 13 00-0026)		
Note: Square weave or square welded wire mesh.		
05 52 13 00-0028 SF Powder Coated Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	14.40	
05 52 13 00-0029 SF Galvanized Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	15.30	
05 52 13 00-0030 SF Aluminum, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel	16.08	
05 52 13 00-0031 SF Stainless Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel.....	27.19	
05 52 13 00-0032 Perforated Metal, Railing Infill Panels (05 52 13 00-0026)		
05 52 13 00-0033 SF Powder Coated Steel, Perforated Metal, Railing Infill Panel	14.13	
05 52 13 00-0034 SF Galvanized Steel, Perforated Metal, Railing Infill Panel	14.61	
05 52 13 00-0035 SF Aluminum, Perforated Metal, Railing Infill Panel	15.64	
05 52 13 00-0036 SF Stainless Steel, Perforated Metal, Railing Infill Panel	31.38	
05 52 13 00-0037 Expanded Metal, Railing Infill Panels (05 52 13 00-0026)		
05 52 13 00-0038 SF Powder Coated Steel, Expanded Metal, Railing Infill Panel.....	6.37	
05 52 13 00-0039 SF Galvanized Steel, Expanded Metal, Railing Infill Panel	13.02	
05 52 13 00-0040 SF Aluminum, Expanded Metal, Railing Infill Panel.....	17.10	
05 52 13 00-0041 SF Stainless Steel, Expanded Metal, Railing Infill Panel.....	25.49	
05 52 13 00-0042 Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railings (05 52 13)		
Note: Includes factory primed, fasteners and field touch-up of welds.		



		Metals	05	05
		Metal Fabrications	05 50	
		Metal Railings	05 52	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
05 52 13 00-0043	LF	1" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	36.68	6.35
		For Schedule 80 Handrail, Add	2.91	
		For 11 Gauge A513 Steel Tubing, Deduct	-4.58	
		For 12 Gauge A513 Steel Tubing, Deduct	-5.21	
		For 14 Gauge A513 Steel Tubing, Deduct	-6.87	
		For 16 Gauge A513 Steel Tubing, Deduct	-8.12	
		For Stainless Steel, Add	41.66	
		For Aluminum, Satin Finish, Add	8.75	
		For Curved Rail, Add	11.00	
		For Aluminum, Clear Anodized Finish, Add	13.54	
		For Aluminum, Dark Anodized Finish, Add	15.62	
		For Galvanized Finish, Add	6.25	
05 52 13 00-0044	LF	1-1/4" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	37.35	6.35
		For Schedule 80 Handrail, Add	3.52	
		For 11 Gauge A513 Steel Tubing, Deduct	-4.73	
		For 12 Gauge A513 Steel Tubing, Deduct	-5.38	
		For 14 Gauge A513 Steel Tubing, Deduct	-7.10	
		For 16 Gauge A513 Steel Tubing, Deduct	-8.39	
		For Stainless Steel, Add	43.00	
		For Aluminum, Satin Finish, Add	9.03	
		For Curved Rail, Add	11.21	
		For Aluminum, Clear Anodized Finish, Add	13.98	
		For Aluminum, Dark Anodized Finish, Add	16.13	
		For Galvanized Finish, Add	6.45	
05 52 13 00-0045	LF	1-1/2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	38.02	6.35
		For Schedule 80 Handrail, Add	11.85	
		For 11 Gauge A513 Steel Tubing, Deduct	-4.88	
		For 12 Gauge A513 Steel Tubing, Deduct	-5.54	
		For 14 Gauge A513 Steel Tubing, Deduct	-7.32	
		For 16 Gauge A513 Steel Tubing, Deduct	-8.65	
		For Stainless Steel, Add	44.34	
		For Aluminum, Satin Finish, Add	9.31	
		For Curved Rail, Add	11.41	
		For Aluminum, Clear Anodized Finish, Add	14.41	
		For Aluminum, Dark Anodized Finish, Add	16.63	
		For Galvanized Finish, Add	6.65	
05 52 13 00-0046	LF	2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	45.75	6.35
		For Schedule 80 Handrail, Add	4.66	
		For 11 Gauge A513 Steel Tubing, Deduct	-6.58	
		For 12 Gauge A513 Steel Tubing, Deduct	-7.48	
		For 14 Gauge A513 Steel Tubing, Deduct	-9.87	
		For 16 Gauge A513 Steel Tubing, Deduct	-11.66	
		For Stainless Steel, Add	59.80	
		For Aluminum, Satin Finish, Add	12.56	
		For Curved Rail, Add	13.73	
		For Aluminum, Clear Anodized Finish, Add	19.44	
		For Aluminum, Dark Anodized Finish, Add	22.43	
		For Galvanized Finish, Add	8.97	
05 52 13 00-0047	LF	2-1/2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	52.13	6.35
		For Schedule 80 Handrail, Add	5.17	
		For 11 Gauge A513 Steel Tubing, Deduct	-7.98	
		For 12 Gauge A513 Steel Tubing, Deduct	-9.07	
		For 14 Gauge A513 Steel Tubing, Deduct	-11.97	
		For 16 Gauge A513 Steel Tubing, Deduct	-14.15	
		For Stainless Steel, Add	72.56	
		For Aluminum, Satin Finish, Add	15.24	
		For Curved Rail, Add	15.64	
		For Aluminum, Clear Anodized Finish, Add	23.58	
		For Aluminum, Dark Anodized Finish, Add	27.21	
		For Galvanized Finish, Add	10.88	
05 52 13 00-0048		Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel		
		Pipe Railings (05 52 13)		
		Note: Includes factory primed, fasteners and field touch-up of welds.		
05 52 13 00-0049	LF	1" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	44.57	6.66
		For Schedule 80 Handrail, Add	2.91	
		For 11 Gauge A513 Steel Tubing, Deduct	-6.32	
		For 12 Gauge A513 Steel Tubing, Deduct	-7.18	
		For 14 Gauge A513 Steel Tubing, Deduct	-9.48	
		For 16 Gauge A513 Steel Tubing, Deduct	-11.20	
		For Stainless Steel, Add	57.44	
		For Aluminum, Satin Finish, Add	12.06	
		For Curved Rail, Add	13.37	
		For Aluminum, Clear Anodized Finish, Add	18.67	
		For Aluminum, Dark Anodized Finish, Add	21.54	
		For Galvanized Finish, Add	8.62	

05 Metals**05 50 Metal Fabrications****05 52 Metal Railings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0050 LF 1-1/4" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	45.51	6.66
For Schedule 80 Handrail, Add	3.52	
For 11 Gauge A513 Steel Tubing, Deduct	-6.53	
For 12 Gauge A513 Steel Tubing, Deduct	-7.42	
For 14 Gauge A513 Steel Tubing, Deduct	-9.79	
For 16 Gauge A513 Steel Tubing, Deduct	-11.57	
For Stainless Steel, Add	59.32	
For Aluminum, Satin Finish, Add	12.46	
For Curved Rail, Add	13.65	
For Aluminum, Clear Anodized Finish, Add	19.28	
For Aluminum, Dark Anodized Finish, Add	22.25	
For Galvanized Finish, Add	8.90	
05 52 13 00-0051 LF 1-1/2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	46.22	6.66
For Schedule 80 Handrail, Add	11.85	
For 11 Gauge A513 Steel Tubing, Deduct	-6.68	
For 12 Gauge A513 Steel Tubing, Deduct	-7.59	
For 14 Gauge A513 Steel Tubing, Deduct	-10.02	
For 16 Gauge A513 Steel Tubing, Deduct	-11.84	
For Stainless Steel, Add	60.74	
For Aluminum, Satin Finish, Add	12.76	
For Curved Rail, Add	13.87	
For Aluminum, Clear Anodized Finish, Add	19.74	
For Aluminum, Dark Anodized Finish, Add	22.78	
For Galvanized Finish, Add	9.11	
05 52 13 00-0052 LF 2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	57.00	6.66
For Schedule 80 Handrail, Add	4.66	
For 11 Gauge A513 Steel Tubing, Deduct	-9.05	
For 12 Gauge A513 Steel Tubing, Deduct	-10.29	
For 14 Gauge A513 Steel Tubing, Deduct	-13.58	
For 16 Gauge A513 Steel Tubing, Deduct	-16.05	
For Stainless Steel, Add	82.30	
For Aluminum, Satin Finish, Add	17.28	
For Curved Rail, Add	17.10	
For Aluminum, Clear Anodized Finish, Add	26.75	
For Aluminum, Dark Anodized Finish, Add	30.86	
For Galvanized Finish, Add	12.35	
05 52 13 00-0053 LF 2-1/2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing	64.05	6.66
For Schedule 80 Handrail, Add	5.17	
For 11 Gauge A513 Steel Tubing, Deduct	-10.60	
For 12 Gauge A513 Steel Tubing, Deduct	-12.05	
For 14 Gauge A513 Steel Tubing, Deduct	-15.91	
For 16 Gauge A513 Steel Tubing, Deduct	-18.80	
For Stainless Steel, Add	96.40	
For Aluminum, Satin Finish, Add	20.24	
For Curved Rail, Add	19.22	
For Aluminum, Clear Anodized Finish, Add	31.33	
For Aluminum, Dark Anodized Finish, Add	36.15	
For Galvanized Finish, Add	14.46	
05 52 13 00-0054 Remove And Reinstall Pipe Railing (05 52 13)		
05 52 13 00-0055 LF Removal And Reinstallation Of Wall Bracket Mounted Pipe Railing	23.79	
05 52 13 00-0056 LF Removal And Reinstallation Of Floor Mounted Pipe Railing	31.86	
05 52 13 00-0057 EA Install New Galvanized Steel Pipe Railing Bracket	63.39	
For Stainless Steel, Add	63.34	
05 53 Metal Gratings (05 50)		
05 53 13 Bar Gratings (05 53)		
05 53 13 00-0001 Welded Grating (05 53 13)		
Note: Sizes are for height and width of bearing bars. Welded grating is open grid grating which has bearing bars and cross bars locked in place by resistance welding, or conventional hand welding. Resistance welded grating is produced on precise automated production equipment by combining hydraulic pressure with a powerful electric current to fuse - electroforge - the cross bar and bearing bar into a single rigid panel.		
05 53 13 00-0002 Steel, Welded Grating (05 53 13 00-0001)		
Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0003 SF 3/4" x 1/8" Steel, Welded Grating	11.25	1.16
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	1.52	
For 304 Stainless Steel, Add	28.67	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	2.61	
For Crossbars At 2" On-Center, Add	0.96	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.78	
05 53 13 00-0004 SF 3/4" x 3/16" Steel, Welded Grating	14.95	1.16
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.15	
For 304 Stainless Steel, Add	40.54	
Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
For Bearing Bars At 15/16" On-Center, Add	3.69	
For Crossbars At 2" On-Center, Add	1.36	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.87	



	Metals	05	05
	Metal Fabrications	05 50	
	Metal Gratings	05 53	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0005	SF	1" x 1/8" Steel, Welded Grating	.....	13.63	1.16
		For One Coat Of Shop Applied Paint (Red Or Black), Add	.....	0.22	
		For Galvanized Steel, Add	.....	1.92	
		For 304 Stainless Steel, Add	.....	36.31	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add	.....	3.30	
		For Crossbars At 2" On-Center, Add	.....	1.22	
		For Serrated Wear Surface, Add	.....	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	.....	-1.84	
05 53 13 00-0006	SF	1" x 3/16" Steel, Welded Grating	.....	18.64	1.16
		For One Coat Of Shop Applied Paint (Red Or Black), Add	.....	0.22	
		For Galvanized Steel, Add	.....	2.77	
		For 304 Stainless Steel, Add	.....	52.39	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add	.....	4.77	
		For Crossbars At 2" On-Center, Add	.....	1.76	
		For Serrated Wear Surface, Add	.....	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	.....	-1.96	
05 53 13 00-0007	SF	1" x 1/4" Steel, Welded Grating	.....	23.66	1.16
		For One Coat Of Shop Applied Paint (Red Or Black), Add	.....	0.22	
		For Galvanized Steel, Add	.....	3.63	
		For 304 Stainless Steel, Add	.....	68.50	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add	.....	6.23	
		For Crossbars At 2" On-Center, Add	.....	2.30	
		For Serrated Wear Surface, Add	.....	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	.....	-2.09	
05 53 13 00-0008	SF	1-1/4" x 1/8" Steel, Welded Grating	.....	16.03	1.16
		For One Coat Of Shop Applied Paint (Red Or Black), Add	.....	0.22	
		For Galvanized Steel, Add	.....	2.33	
		For 304 Stainless Steel, Add	.....	44.01	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add	.....	4.00	
		For Crossbars At 2" On-Center, Add	.....	1.48	
		For Serrated Wear Surface, Add	.....	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	.....	-1.90	
05 53 13 00-0009	SF	1-1/4" x 3/16" Steel, Welded Grating	.....	22.13	1.16
		For One Coat Of Shop Applied Paint (Red Or Black), Add	.....	0.22	
		For Galvanized Steel, Add	.....	3.37	
		For 304 Stainless Steel, Add	.....	63.59	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add	.....	5.78	
		For Crossbars At 2" On-Center, Add	.....	2.14	
		For Serrated Wear Surface, Add	.....	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	.....	-2.05	
05 53 13 00-0010	SF	1-1/2" x 1/8" Steel, Welded Grating	.....	18.43	1.16
		For One Coat Of Shop Applied Paint (Red Or Black), Add	.....	0.22	
		For Galvanized Steel, Add	.....	2.74	
		For 304 Stainless Steel, Add	.....	51.71	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add	.....	4.70	
		For Crossbars At 2" On-Center, Add	.....	1.74	
		For Serrated Wear Surface, Add	.....	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	.....	-1.96	
05 53 13 00-0011	SF	1-1/2" x 3/16" Steel, Welded Grating	.....	26.33	1.43
		For One Coat Of Shop Applied Paint (Red Or Black), Add	.....	0.22	
		For Galvanized Steel, Add	.....	3.99	
		For 304 Stainless Steel, Add	.....	75.37	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add	.....	6.86	
		For Crossbars At 2" On-Center, Add	.....	2.54	
		For Serrated Wear Surface, Add	.....	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	.....	-2.50	
05 53 13 00-0012	SF	1-1/2" x 1/4" Steel, Welded Grating	.....	33.97	1.43
		For One Coat Of Shop Applied Paint (Red Or Black), Add	.....	0.22	
		For Galvanized Steel, Add	.....	5.29	
		For 304 Stainless Steel, Add	.....	99.90	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add	.....	9.09	
		For Crossbars At 2" On-Center, Add	.....	3.36	
		For Serrated Wear Surface, Add	.....	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	.....	-2.69	
05 53 13 00-0013	SF	1-3/4" x 3/16" Steel, Welded Grating	.....	30.06	1.43
		For One Coat Of Shop Applied Paint (Red Or Black), Add	.....	0.22	
		For Galvanized Steel, Add	.....	4.63	
		For 304 Stainless Steel, Add	.....	87.34	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add	.....	7.95	
		For Crossbars At 2" On-Center, Add	.....	2.94	
		For Serrated Wear Surface, Add	.....	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	.....	-2.59	

05 Metals**05 50 Metal Fabrications****05 53 Metal Gratings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0014	SF		2" x 3/16" Steel, Welded Grating.....	33.54	1.43
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	5.22	
			For 304 Stainless Steel, Add	98.51	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	8.96	
			For Crossbars At 2" On-Center, Add	3.31	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.68	
05 53 13 00-0015	SF		2-1/4" x 3/16" Steel, Welded Grating	37.24	1.43
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	5.85	
			For 304 Stainless Steel, Add	110.39	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	10.04	
			For Crossbars At 2" On-Center, Add	3.71	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.77	
05 53 13 00-0016	SF		2-1/2" x 3/16" Steel, Welded Grating	40.73	1.43
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	6.44	
			For 304 Stainless Steel, Add	121.59	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	11.06	
			For Crossbars At 2" On-Center, Add	4.09	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.86	
05 53 13 00-0017			Pressure Locked Grating (05 53 13)		
			Note: Sizes are for height and width of bearing bars. Pressure locked grating is an open grid grating which is an assembly of tight-fitting, slotted bearing bars and cross bars, interlocked together. The permanent locking of the bars is accomplished by slotting the bearing bars with a wider 'dovetail' shape at the bottom of the slot. The bearing bar slot is usually 1/2 the depth of the cross bar. The cross bars are slotted to a depth slightly less than half its depth. When the bars are pressed together under hydraulic pressure, the cross bar material is forced into the 'dovetail' shape of the bearing bar notch, forming a strong, rigid unit.		
05 53 13 00-0018			Steel, Pressure Locked Grating (05 53 13 00-0017)		
			Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0019	SF		3/4" x 1/8" Steel, Pressure Locked Grating.....	20.94	1.16
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.05	
			For 304 Stainless Steel, Add	34.84	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	5.44	
			For Crossbars At 2" On-Center, Add	2.01	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.02	
05 53 13 00-0020	SF		3/4" x 3/16" Steel, Pressure Locked Grating.....	25.70	1.16
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.83	
			For 304 Stainless Steel, Add	43.74	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	6.83	
			For Crossbars At 2" On-Center, Add	2.53	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.14	
05 53 13 00-0021	SF		1" x 1/8" Steel, Pressure Locked Grating.....	22.98	1.16
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.39	
			For 304 Stainless Steel, Add	38.65	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	6.03	
			For Crossbars At 2" On-Center, Add	2.23	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.07	
05 53 13 00-0022	SF		1" x 3/16" Steel, Pressure Locked Grating.....	31.14	1.16
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	4.73	
			For 304 Stainless Steel, Add	53.92	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 7/16" On-Center, Add	41.79	
			For Bearing Bars At 15/16" On-Center, Add	8.42	
			For Crossbars At 2" On-Center, Add	3.11	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.27	
05 53 13 00-0023	SF		1-1/4" x 1/8" Steel, Pressure Locked Grating.....	25.70	1.16
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.83	
			For 304 Stainless Steel, Add	43.74	
			Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
			For Bearing Bars At 15/16" On-Center, Add	6.83	
			For Crossbars At 2" On-Center, Add	2.53	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-2.14	



		Metals	05	05
		Metal Fabrications	05 50	
		Metal Gratings	05 53	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
05 53 13 00-0024	SF	1-1/4" x 3/16" Steel, Pressure Locked Grating.....	34.92	1.16
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	5.35	
		For 304 Stainless Steel, Add	60.99	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	9.52	
		For Crossbars At 2" On-Center, Add	3.52	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.37	
05 53 13 00-0025	SF	1-1/2" x 1/8" Steel, Pressure Locked Grating.....	28.55	1.16
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	4.30	
		For 304 Stainless Steel, Add	49.08	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	7.66	
		For Crossbars At 2" On-Center, Add	2.83	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.21	
05 53 13 00-0026	SF	1-1/2" x 3/16" Steel, Pressure Locked Grating.....	39.41	1.43
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	6.00	
		For 304 Stainless Steel, Add	68.40	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 7/16" On-Center, Add	53.01	
		For Bearing Bars At 15/16" On-Center, Add	10.68	
		For Crossbars At 2" On-Center, Add	3.95	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.82	
05 53 13 00-0027	SF	1-3/4" x 3/16" Steel, Pressure Locked Grating.....	43.40	1.43
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	6.65	
		For 304 Stainless Steel, Add	75.87	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	11.84	
		For Crossbars At 2" On-Center, Add	4.38	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.92	
05 53 13 00-0028	SF	2" x 3/16" Steel, Pressure Locked Grating.....	46.65	1.43
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	7.18	
		For 304 Stainless Steel, Add	81.95	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	12.79	
		For Crossbars At 2" On-Center, Add	4.73	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-3.00	
05 53 13 00-0029	SF	2-1/4" x 3/16" Steel, Pressure Locked Grating.....	49.76	1.43
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	7.69	
		For 304 Stainless Steel, Add	87.77	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	13.70	
		For Crossbars At 2" On-Center, Add	5.07	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-3.08	
05 53 13 00-0030	SF	2-1/2" x 3/16" Steel, Pressure Locked Grating.....	52.46	1.43
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	8.14	
		For 304 Stainless Steel, Add	92.82	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	14.49	
		For Crossbars At 2" On-Center, Add	5.36	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-3.15	
05 53 13 00-0031		Aluminum, Type 6063, Pressure Locked Grating (05 53 13 00-0017)		
		Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted in place, and in all sizes.		
05 53 13 00-0032	SF	3/4" x 1/8" Aluminum, Pressure Locked Grating.....	21.46	1.16
		For Bearing Bars At 15/16" On-Center, Add	5.59	
		For Crossbars At 2" On-Center, Add	2.07	
		For Set In Place Without Bolting, Deduct	-2.03	
		For Powder Coating, Add	2.87	
05 53 13 00-0033	SF	3/4" x 3/16" Aluminum, Pressure Locked Grating.....	29.30	1.16
		For Bearing Bars At 15/16" On-Center, Add	7.88	
		For Crossbars At 2" On-Center, Add	2.91	
		For Set In Place Without Bolting, Deduct	-2.23	
		For Powder Coating, Add	4.05	
05 53 13 00-0034	SF	1" x 1/8" Aluminum, Pressure Locked Grating.....	27.61	1.16
		For Bearing Bars At 15/16" On-Center, Add	7.38	
		For Crossbars At 2" On-Center, Add	2.73	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting, Deduct	-2.19	
		For Powder Coating, Add	3.79	

05 Metals**05 50 Metal Fabrications****05 53 Metal Gratings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0035	SF	1" x 3/16" Aluminum, Pressure Locked Grating	37.75	1.16
		For Bearing Bars At 7/16" On-Center, Add	51.37	
		For Bearing Bars At 15/16" On-Center, Add	10.35	
		For Crossbars At 2" On-Center, Add	3.83	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting, Deduct	-2.44	
		For Powder Coating, Add	5.31	
05 53 13 00-0036	SF	1-1/4" x 1/8" Aluminum, Pressure Locked Grating	32.07	1.16
		For Bearing Bars At 15/16" On-Center, Add	8.69	
		For Crossbars At 2" On-Center, Add	3.21	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting, Deduct	-2.30	
		For Powder Coating, Add	4.46	
05 53 13 00-0037	SF	1-1/4" x 3/16" Aluminum, Pressure Locked Grating	43.13	1.16
		For Bearing Bars At 15/16" On-Center, Add	11.92	
		For Crossbars At 2" On-Center, Add	4.41	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting, Deduct	-2.57	
		For Powder Coating, Add	6.12	
05 53 13 00-0038	SF	1-1/2" x 1/8" Aluminum, Pressure Locked Grating	36.27	1.16
		For Bearing Bars At 15/16" On-Center, Add	9.91	
		For Crossbars At 2" On-Center, Add	3.67	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting, Deduct	-2.40	
		For Powder Coating, Add	5.09	
05 53 13 00-0039	SF	1-1/2" x 3/16" Aluminum, Pressure Locked Grating	48.68	1.16
		For Bearing Bars At 7/16" On-Center, Add	67.22	
		For Bearing Bars At 15/16" On-Center, Add	13.54	
		For Crossbars At 2" On-Center, Add	5.01	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting, Deduct	-2.71	
		For Powder Coating, Add	6.95	
05 53 13 00-0040	SF	1-3/4" x 3/16" Aluminum, Pressure Locked Grating	53.98	1.16
		For Bearing Bars At 15/16" On-Center, Add	15.08	
		For Crossbars At 2" On-Center, Add	5.58	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting, Deduct	-2.85	
		For Powder Coating, Add	7.75	
05 53 13 00-0041	SF	2" x 3/16" Aluminum, Pressure Locked Grating	60.27	1.16
		For Bearing Bars At 15/16" On-Center, Add	16.92	
		For Crossbars At 2" On-Center, Add	6.26	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting, Deduct	-3.00	
		For Powder Coating, Add	8.69	
05 53 13 00-0042	SF	2-1/4" x 3/16" Aluminum, Pressure Locked Grating	65.21	1.16
		For Bearing Bars At 15/16" On-Center, Add	18.36	
		For Crossbars At 2" On-Center, Add	6.79	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting, Deduct	-3.13	
		For Powder Coating, Add	9.43	
05 53 13 00-0043	SF	2-1/2" x 3/16" Aluminum, Pressure Locked Grating	71.09	1.16
		For Bearing Bars At 15/16" On-Center, Add	20.08	
		For Crossbars At 2" On-Center, Add	7.43	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting, Deduct	-3.27	
		For Powder Coating, Add	10.32	
05 53 13 00-0044		Swage Locked Grating (05 53 13) Note: Sizes are for height and width of bearing bars. Swage locked grating is an open grid grating where bearing bars are pre-punched to receive a cross bar without penetrating or cutting the top surface of the bearing bar. The cross bar is then inserted through the pre-punched hole and deformed by swaging or squeezing under hydraulic pressure to permanently lock the bars in place.		
05 53 13 00-0045		Steel, Swage Locked Grating (05 53 13 00-0044) Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0046	SF	1" x 3/16" Steel, Swaged Grating	34.04	1.16
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	2.92	
		For 304 Stainless Steel, Add	52.59	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	20.30	
		For Crossbars At 2" On-Center, Add	2.54	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.35	
05 53 13 00-0047	SF	1-1/4" x 3/16" Steel, Swaged Grating	37.95	1.16
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
		For Galvanized Steel, Add	3.28	
		For 304 Stainless Steel, Add	59.07	
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center		
		For Bearing Bars At 15/16" On-Center, Add	22.80	
		For Crossbars At 2" On-Center, Add	2.85	
		For Serrated Wear Surface, Add	0.16	
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.45	



		Metals	05	05
		Metal Fabrications	05 50	
		Metal Gratings	05 53	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0048	SF	1-1/2" x 3/16" Steel, Swaged Grating	41.55	1.43	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	3.56		
		For 304 Stainless Steel, Add	64.16		
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add	24.77		
		For Crossbars At 2" On-Center, Add	3.10		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.88		
05 53 13 00-0049	SF	1-3/4" x 3/16" Steel, Swaged Grating	47.54	1.43	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	4.11		
		For 304 Stainless Steel, Add	74.10		
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add	28.60		
		For Crossbars At 2" On-Center, Add	3.58		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-3.03		
05 53 13 00-0050	SF	2" x 3/16" Steel, Swaged Grating.....	53.57	1.43	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	4.67		
		For 304 Stainless Steel, Add	84.09		
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add	32.46		
		For Crossbars At 2" On-Center, Add	4.06		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-3.18		
05 53 13 00-0051	SF	2-1/4" x 3/16" Steel, Swaged Grating	59.56	1.43	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	5.22		
		For 304 Stainless Steel, Add	94.03		
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add	36.29		
		For Crossbars At 2" On-Center, Add	4.54		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-3.33		
05 53 13 00-0052	SF	2-1/2" x 3/16" Steel, Swaged Grating	65.59	1.43	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	5.77		
		For 304 Stainless Steel, Add	104.02		
		Note: Bearing bars at 1-3/16" on-center and crossbars at 4" on-center			
		For Bearing Bars At 15/16" On-Center, Add	40.15		
		For Crossbars At 2" On-Center, Add	5.02		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-3.48		
05 53 13 00-0053		Aluminum Grating, Type 6063, Swage Locked (05 53 13 00-0044)			
		Note: Bearing bars at 1-3/16" on-center, crossbars at 4" on-center, bolted in place, and in all sizes.			
05 53 13 00-0054	SF	1" x 1/8" Aluminum, Swaged Grating	25.45	1.16	
		For Bearing Bars At 15/16" On-Center, Add	14.80		
		For Crossbars At 2" On-Center, Add	1.85		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-2.13		
		For Powder Coating, Add	3.47		
05 53 13 00-0055	SF	1" x 3/16" Aluminum, Swaged Grating.....	33.19	1.16	
		For Bearing Bars At 15/16" On-Center, Add	19.76		
		For Crossbars At 2" On-Center, Add	2.47		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-2.33		
		For Powder Coating, Add	4.63		
05 53 13 00-0056	SF	1-1/4" x 1/8" Aluminum, Swaged Grating.....	28.93	1.16	
		For Bearing Bars At 15/16" On-Center, Add	17.03		
		For Crossbars At 2" On-Center, Add	2.13		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-2.22		
		For Powder Coating, Add	3.99		
05 53 13 00-0057	SF	1-1/4" x 3/16" Aluminum, Swaged Grating.....	38.40	1.16	
		For Bearing Bars At 15/16" On-Center, Add	23.09		
		For Crossbars At 2" On-Center, Add	2.89		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-2.46		
		For Powder Coating, Add	5.41		
05 53 13 00-0058	SF	1-1/2" x 1/8" Aluminum, Swaged Grating.....	33.05	1.16	
		For Bearing Bars At 15/16" On-Center, Add	19.67		
		For Crossbars At 2" On-Center, Add	2.46		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-2.32		
		For Powder Coating, Add	4.61		
05 53 13 00-0059	SF	1-1/2" x 3/16" Aluminum, Swaged Grating.....	43.98	1.16	
		For Bearing Bars At 15/16" On-Center, Add	26.66		
		For Crossbars At 2" On-Center, Add	3.33		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-2.60		
		For Powder Coating, Add	6.25		

05 Metals**05 50 Metal Fabrications****05 53 Metal Gratings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0060	SF		1-3/4" x 3/16" Aluminum, Swaged Grating.....	50.40	1.16
			For Bearing Bars At 15/16" On-Center, Add	30.77	
			For Crossbars At 2" On-Center, Add	3.85	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.76	
			For Powder Coating, Add	7.21	
05 53 13 00-0061	SF		2" x 3/16" Aluminum, Swaged Grating.....	56.79	1.16
			For Bearing Bars At 15/16" On-Center, Add	34.86	
			For Crossbars At 2" On-Center, Add	4.36	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-2.92	
			For Powder Coating, Add	8.17	
05 53 13 00-0062	SF		2-1/4" x 3/16" Aluminum, Swaged Grating.....	63.21	1.16
			For Bearing Bars At 15/16" On-Center, Add	38.97	
			For Crossbars At 2" On-Center, Add	4.87	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-3.08	
			For Powder Coating, Add	9.13	
05 53 13 00-0063	SF		2-1/2" x 3/16" Aluminum, Swaged Grating.....	69.60	1.16
			For Bearing Bars At 15/16" On-Center, Add	43.06	
			For Crossbars At 2" On-Center, Add	5.38	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting, Deduct	-3.24	
			For Powder Coating, Add	10.09	
05 53 13 00-0064			Riveted Grating (05 53 13) Note: Riveted grating is an open grid grating where bearing bars are pre-punched to receive a solid round rivet. Crimp/lacing bars are pre-punched as well and then formed into a reticulated shape. Bearing bars and crimp bars are then assembled and clamped in place by rivets which are cold driven under hydraulic pressure to permanently lock the assembly together.		
05 53 13 00-0065			Steel, Riveted Grating (05 53 13 00-0064) Note: 1" clear opening, bolted or tack welded in place, unpainted steel, all sizes.		
05 53 13 00-0066	SF		3/4" x 1/8", 7.0 LB/SF, Steel, Riveted Grating.....	64.37	1.16
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	2.98	
			For 304 Stainless Steel, Add	53.30	
			For 5/8" Clear Opening, Add	21.41	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-3.11	
05 53 13 00-0067	SF		3/4" x 3/16", 8.5 LB/SF, Steel, Riveted Grating.....	75.73	1.16
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.52	
			For 304 Stainless Steel, Add	63.06	
			For 5/8" Clear Opening, Add	25.33	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-3.39	
05 53 13 00-0068	SF		1" x 1/8", 8.0 LB/SF, Steel, Riveted Grating.....	69.60	1.16
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.23	
			For 304 Stainless Steel, Add	57.79	
			For 5/8" Clear Opening, Add	23.21	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-3.24	
05 53 13 00-0069	SF		1" x 3/16", 9.5 LB/SF, Steel, Riveted Grating.....	80.06	1.16
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.73	
			For 304 Stainless Steel, Add	66.78	
			For 5/8" Clear Opening, Add	26.82	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-3.50	
05 53 13 00-0070	SF		1-1/4" x 1/8", 9.0 LB/SF, Steel, Riveted Grating.....	73.93	1.16
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.44	
			For 304 Stainless Steel, Add	61.51	
			For 5/8" Clear Opening, Add	24.71	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-3.34	
05 53 13 00-0071	SF		1-1/4" x 3/16", 11.1 LB/SF, Steel, Riveted Grating.....	88.12	1.16
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	4.12	
			For 304 Stainless Steel, Add	73.70	
			For 5/8" Clear Opening, Add	29.60	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-3.70	
05 53 13 00-0072	SF		1-1/2" x 1/8", 10.1 LB/SF, Steel, Riveted Grating.....	78.64	1.43
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	3.64	
			For 304 Stainless Steel, Add	65.10	
			For 5/8" Clear Opening, Add	26.15	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-3.80	



		Metals	05	05
		Metal Fabrications	05 50	
		Metal Gratings	05 53	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0073 SF 1-1/2" x 3/16", 12.5 LB/SF, Steel, Riveted Grating.....	93.80	1.43
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.37	
For 304 Stainless Steel, Add	78.13	
For 5/8" Clear Opening, Add	31.38	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-4.18	
05 53 13 00-0074 SF 1-3/4" x 3/16", 14.0 LB/SF, Steel, Riveted Grating.....	101.54	1.43
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.74	
For 304 Stainless Steel, Add	84.77	
For 5/8" Clear Opening, Add	34.05	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-4.38	
05 53 13 00-0075 SF 2" x 3/16", 17.0 LB/SF, Steel, Riveted Grating.....	118.81	1.43
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	5.57	
For 304 Stainless Steel, Add	99.61	
For 5/8" Clear Opening, Add	40.01	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-4.81	
05 53 13 00-0076 SF 2-1/4" x 3/16", 18.5 LB/SF, Steel, Riveted Grating.....	124.84	1.43
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	5.86	
For 304 Stainless Steel, Add	104.79	
For 5/8" Clear Opening, Add	42.09	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-4.96	
05 53 13 00-0077 SF 2-1/2" x 3/16", 20.0 LB/SF, Steel, Riveted Grating.....	130.20	1.43
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	6.11	
For 304 Stainless Steel, Add	109.39	
For 5/8" Clear Opening, Add	43.94	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-5.09	
05 53 13 00-0078 Aluminum, Riveted Grating (05 53 13 00-0064)		
Note: 1" clear opening, bolted in place and in all sizes.		
05 53 13 00-0079 SF 3/4" x 1/8", 2.4 LB/SF, Aluminum, Riveted Grating.....	55.13	1.16
For 5/8" Clear Opening, Add	18.22	
For Powder Coating, Add	7.92	
For Set In Place Without Bolting, Deduct	-2.87	
05 53 13 00-0080 SF 3/4" x 3/16", 2.9 LB/SF, Aluminum, Riveted Grating.....	65.58	1.16
For 5/8" Clear Opening, Add	21.82	
For Powder Coating, Add	9.49	
For Set In Place Without Bolting, Deduct	-3.14	
05 53 13 00-0081 SF 1" x 1/8", 2.7 LB/SF, Aluminum, Riveted Grating.....	60.71	1.16
For 5/8" Clear Opening, Add	20.14	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	8.76	
For Set In Place Without Bolting, Deduct	-3.01	
05 53 13 00-0082 SF 1" x 3/16", 3.2 LB/SF, Aluminum, Riveted Grating.....	70.92	1.16
For 5/8" Clear Opening, Add	23.67	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	10.29	
For Set In Place Without Bolting, Deduct	-3.27	
05 53 13 00-0083 SF 1-1/4" x 1/8", 3.1 LB/SF, Aluminum, Riveted Grating.....	68.18	1.16
For 5/8" Clear Opening, Add	22.72	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	9.88	
For Set In Place Without Bolting, Deduct	-3.20	
05 53 13 00-0084 SF 1-1/4" x 3/16", 3.8 LB/SF, Aluminum, Riveted Grating.....	82.35	1.16
For 5/8" Clear Opening, Add	27.61	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	12.00	
For Set In Place Without Bolting, Deduct	-3.56	
05 53 13 00-0085 SF 1-1/2" x 1/8", 3.4 LB/SF, Aluminum, Riveted Grating.....	73.29	1.16
For 5/8" Clear Opening, Add	24.48	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	10.65	
For Set In Place Without Bolting, Deduct	-3.33	
05 53 13 00-0086 SF 1-1/2" x 3/16", 4.3 LB/SF, Aluminum, Riveted Grating.....	91.28	1.16
For 5/8" Clear Opening, Add	30.69	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	13.34	
For Set In Place Without Bolting, Deduct	-3.78	
05 53 13 00-0087 SF 1-3/4" x 3/16", 4.8 LB/SF, Aluminum, Riveted Grating.....	100.71	1.16
For 5/8" Clear Opening, Add	33.94	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	14.76	
For Set In Place Without Bolting, Deduct	-4.01	

05 Metals**05 50 Metal Fabrications****05 53 Metal Gratings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0088 SF 2" x 3/16", 5.8 LB/SF, Aluminum, Riveted Grating.....	120.09	1.16
For 5/8" Clear Opening, Add	40.63	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	17.67	
For Set In Place Without Bolting, Deduct	-4.50	
05 53 13 00-0089 SF 2-1/4" x 3/16", 6.4 LB/SF, Aluminum, Riveted Grating.....	131.07	1.16
For 5/8" Clear Opening, Add	44.42	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	19.31	
For Set In Place Without Bolting, Deduct	-4.77	
05 53 13 00-0090 SF 2-1/2" x 3/16", 7.2 LB/SF, Aluminum, Riveted Grating.....	145.82	1.16
For 5/8" Clear Opening, Add	49.51	
For Serrated Wear Surface, Add	0.16	
For Powder Coating, Add	21.53	
For Set In Place Without Bolting, Deduct	-5.14	

05 56 Metal Castings (05 50)**05 56 00 00-0001 Castings** (05 56)

05 56 00 00-0002 LB Up To 150 LB, Miscellaneous Castings, Light Section.....	5.58	0.52
05 56 00 00-0003 LB >150 LB, Miscellaneous Castings, Heavy Section.....	9.61	0.42

END OF SECTION 05



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

06 Wood, Plastics, and Composites

06 05 Common Work Results for Wood, Plastics, and Composites (06)

06 05 73 Wood Treatment (06 05)

06 05 73 13 Fire-Retardant Wood Treatment (06 05 73)

06 05 73 13-0001	Preservative Treated Lumber (06 05 73 13)	
06 05 73 13-0002	Fire Retardant Treatment (FRT) For Lumber (06 05 73 13-0001)	
06 05 73 13-0003	MBF Fire Retardant Treatment (FRT) For Lumber.....	742.35

06 05 73 33 Preservative Wood Treatment (06 05 73)

06 05 73 33-0001	Preservative Treatment For Marine And Fresh Water Uses (06 05 73 33)	
06 05 73 33-0002	MBF Preservative Treatment For Marine And Fresh Water Lumber.....	182.41

06 10 Rough Carpentry (06)

06 11 Wood Framing (06 10)

Note: All framing lumber is grade #2 or better unless otherwise listed. Dimensions are nominal.

06 11 16 Mechanically Graded Lumber (06 11)

06 11 16 00-0001 Rafters And Joists (06 11 16)

06 11 16 00-0002 Joists (06 11 16 00-0001)

Note: A series of parallel beams to support floors or ceilings.

06 11 16 00-0003	LF	2" x 6" Wood Floor Joist	2.70	1.22
06 11 16 00-0004	LF	2" x 8" Wood Floor Joist	3.42	1.34
06 11 16 00-0005	LF	2" x 10" Wood Floor Joist.....	4.40	1.71
06 11 16 00-0006	LF	2" x 12" Wood Floor Joist.....	5.23	1.95
06 11 16 00-0007	LF	2" x 14" Wood Floor Joist.....	5.76	2.07
06 11 16 00-0008	LF	2" x 6" Pressure Treated Wood Floor Joist.....	2.78	1.22
06 11 16 00-0009	LF	2" x 8" Pressure Treated Wood Floor Joist.....	3.52	1.34
06 11 16 00-0010	LF	2" x 10" Pressure Treated Wood Floor Joist.....	4.28	1.71
06 11 16 00-0011	LF	2" x 12" Pressure Treated Wood Floor Joist.....	5.27	1.95

06 11 16 00-0012 Purlins (06 11 16 00-0001)

Note: A horizontal structural member in a roof, supporting the loads from the roof deck or sheathing.

06 11 16 00-0013	LF	2" x 4" Wood Purlin	2.13	0.73
06 11 16 00-0014	LF	2" x 6" Wood Purlin	2.72	0.80
06 11 16 00-0015	LF	2" x 8" Wood Purlin	3.36	0.88
06 11 16 00-0016	LF	2" x 10" Wood Purlin	4.16	0.97
06 11 16 00-0017	LF	2" x 4" Pressure Treated Wood Purlin	2.18	0.73
06 11 16 00-0018	LF	2" x 6" Pressure Treated Wood Purlin	2.80	0.80
06 11 16 00-0019	LF	2" x 8" Pressure Treated Wood Purlin	3.46	0.88
06 11 16 00-0020	LF	2" x 10" Pressure Treated Wood Purlin	4.04	0.97

06 11 16 00-0021 Exposed Rafters Or Joists (06 11 16 00-0001)

06 11 16 00-0022 Redwood Rafters Or Joists (06 11 16 00-0021)

06 11 16 00-0023	LF	2" x 6" Redwood Rafter Or Joist	4.35	1.22
06 11 16 00-0024	LF	2" x 8" Redwood Rafter Or Joist	5.34	1.34
06 11 16 00-0025	LF	2" x 10" Redwood Rafter Or Joist	6.67	1.71
06 11 16 00-0026	LF	2" x 12" Redwood Rafter Or Joist	8.10	1.95

06 11 16 00-0027 Cedar Rafters Or Joists (06 11 16 00-0021)

06 11 16 00-0028	LF	2" x 6" Cedar Rafter Or Joist.....	2.71	1.22
06 11 16 00-0029	LF	2" x 8" Cedar Rafter Or Joist.....	3.04	1.34
06 11 16 00-0030	LF	2" x 10" Cedar Rafter Or Joist.....	3.47	1.71
06 11 16 00-0031	LF	2" x 12" Cedar Rafter Or Joist.....	3.90	1.95

06 11 16 00-0032 Oak Rafters Or Joists (06 11 16 00-0021)

06 11 16 00-0033	LF	2" x 6" Oak Rafter Or Joist.....	3.38	1.22
06 11 16 00-0034	LF	2" x 8" Oak Rafter Or Joist.....	4.73	1.34
06 11 16 00-0035	LF	2" x 10" Oak Rafter Or Joist.....	6.19	1.71
06 11 16 00-0036	LF	2" x 12" Oak Rafter Or Joist.....	7.65	1.95

06 11 16 00-0037 Framing (06 11 16)

06 Wood, Plastics, and Composites**06 10 Rough Carpentry****06 11 Wood Framing**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
06 11 16 00-0038	Partition Framing (06 11 16 00-0037)				
06 11 16 00-0039	LF 2" x 4" Wood Stud Framing, For Partition Walls	2.07		0.97	
06 11 16 00-0040	LF 2" x 6" Wood Stud Framing, For Partition Walls	2.58		1.04	
06 11 16 00-0041	LF 2" x 8" Wood Stud Framing, For Partition Walls	3.11		1.10	
06 11 16 00-0042	LF 2" x 4" Pressure Treated Wood Stud Framing, For Partition Walls	2.12		0.97	
06 11 16 00-0043	LF 2" x 6" Pressure Treated Wood Stud Framing, For Partition Walls	2.66		1.04	
06 11 16 00-0044	LF 2" x 8" Pressure Treated Wood Stud Framing, For Partition Walls	3.21		1.10	
06 11 16 00-0045	Sills And Plates (06 11 16)				
06 11 16 00-0046	Sills (06 11 16 00-0045)				
Note: A horizontal member which rests on and is attached to the foundation.					
06 11 16 00-0047	LF 2" x 4" Wood Sill	3.40		1.83	
06 11 16 00-0048	LF 2" x 6" Wood Sill	4.15		2.07	
06 11 16 00-0049	LF 2" x 8" Wood Sill	5.02		2.30	
06 11 16 00-0050	LF 2" x 4" Pressure Treated Wood Sill	3.45		1.83	
06 11 16 00-0051	LF 2" x 6" Pressure Treated Wood Sill	4.23		2.07	
06 11 16 00-0052	LF 2" x 8" Pressure Treated Wood Sill	5.12		2.30	
06 11 16 00-0053	Plates (06 11 16 00-0045)				
Note: A horizontal member connecting and terminating studs, posts, joists, rafters, etc. such as the top and bottom plate on a stud framed partition wall.					
06 11 16 00-0054	LF 2" x 4" Wood Plate	3.40		1.83	
06 11 16 00-0055	LF 2" x 6" Wood Plate	4.15		2.07	
06 11 16 00-0056	LF 2" x 8" Wood Plate	4.99		2.30	
06 11 16 00-0057	LF 2" x 4" Pressure Treated Wood Plate	3.45		1.83	
06 11 16 00-0058	LF 2" x 6" Pressure Treated Wood Plate	4.23		2.07	
06 11 16 00-0059	LF 2" x 8" Pressure Treated Wood Plate	5.09		2.30	
06 11 16 00-0060	Sills And Plates From Redwood (06 11 16 00-0045)				
06 11 16 00-0061	Construction Grade/Rough (06 11 16 00-0060)				
06 11 16 00-0062	LF 2" x 6" Redwood, Construction Grade/Rough	6.16		2.07	
06 11 16 00-0063	LF 2" x 8" Redwood, Construction Grade/Rough	8.21		2.30	
06 11 16 00-0064	LF 2" x 10" Redwood, Construction Grade/Rough	9.98		2.55	
06 11 16 00-0065	LF 2" x 12" Redwood, Construction Grade/Rough	12.03		2.79	
06 11 16 00-0066	Con Heart/Smooth (06 11 16 00-0060)				
06 11 16 00-0067	LF 2" x 6" Redwood, Con Heart/Smooth	7.49		2.07	
06 11 16 00-0068	LF 2" x 8" Redwood, Con Heart/Smooth	10.21		2.30	
06 11 16 00-0069	LF 2" x 10" Redwood, Con Heart/Smooth	13.37		2.55	
06 11 16 00-0070	LF 2" x 12" Redwood, Con Heart/Smooth	16.06		2.79	
06 11 16 00-0071	Posts And Girts (06 11 16)				
06 11 16 00-0072	Posts (06 11 16 00-0071)				
Note: A vertical, upright framing member.					
06 11 16 00-0073	LF 4" x 4" Wood Post	5.11		2.30	
06 11 16 00-0074	LF 4" x 5" Wood Post	5.85		2.67	
06 11 16 00-0075	LF 4" x 6" Wood Post	6.43		2.91	
06 11 16 00-0076	LF 6" x 6" Wood Post	7.17		3.16	
06 11 16 00-0077	LF 8" x 8" Wood Post	7.91		3.28	
06 11 16 00-0078	LF 10" x 10" Wood Post	8.64		3.77	
06 11 16 00-0079	LF 4" x 4" Pressure Treated Wood Post	6.16		2.30	
06 11 16 00-0080	LF 3" x 6" Pressure Treated Wood Post	7.08		2.91	
06 11 16 00-0081	LF 4" x 6" Pressure Treated Wood Post	8.62		2.91	
06 11 16 00-0082	LF 6" x 6" Pressure Treated Wood Post	11.98		3.16	
06 11 16 00-0083	Girts (06 11 16 00-0071)				
Note: A horizontal member at intermediate level between columns, studs, or posts.					
06 11 16 00-0084	LF 2" x 4" Wood Girt	2.42		0.87	
06 11 16 00-0085	LF 2" x 6" Wood Girt	3.04		0.96	
06 11 16 00-0086	LF 2" x 8" Wood Girt	3.70		1.06	
06 11 16 00-0087	LF 2" x 10" Wood Girt	4.54		1.17	
06 11 16 00-0088	LF 4" x 4" Wood Girt	4.92		1.75	
06 11 16 00-0089	LF 4" x 5" Wood Girt	5.67		1.97	
06 11 16 00-0090	LF 4" x 6" Wood Girt	6.40		2.19	
06 11 16 00-0091	LF 6" x 6" Wood Girt	7.14		2.41	
06 11 16 00-0092	LF 8" x 8" Wood Girt	7.88		2.63	
06 11 16 00-0093	LF 10" x 10" Wood Girt	8.62		2.85	
06 11 16 00-0094	LF 2" x 4" Pressure Treated Wood Girt	2.47		0.87	
06 11 16 00-0095	LF 2" x 6" Pressure Treated Wood Girt	3.12		0.96	
06 11 16 00-0096	LF 2" x 8" Pressure Treated Wood Girt	3.80		1.06	
06 11 16 00-0097	LF 2" x 10" Pressure Treated Wood Girt	4.42		1.17	
06 11 16 00-0098	LF 4" x 4" Pressure Treated Wood Girt	6.16		1.75	

**Wood, Plastics, and Composites****06****Rough Carpentry****06 10****Wood Framing****06 11****06**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 11 16 00-0099 LF 3" x 6" Pressure Treated Wood Girt.....	7.08	2.19
06 11 16 00-0100 LF 4" x 6" Pressure Treated Wood Girt.....	8.62	2.19
06 11 16 00-0101 LF 6" x 6" Pressure Treated Wood Girt.....	11.98	2.41
06 11 16 00-0102 Construction Grade/Rough Redwood Posts (06 11 16 00-0071)		
06 11 16 00-0103 LF 4" x 4" Redwood, Construction Grade/Rough Post.....	9.54	2.30
For Smooth "Clear", Add	1.21	
06 11 16 00-0104 LF 4" x 5" Redwood, Construction Grade/Rough Post.....	11.47	2.67
For Smooth "Clear", Add	1.51	
06 11 16 00-0105 LF 4" x 6" Redwood, Construction Grade/Rough Post.....	13.45	2.91
For Smooth "Clear", Add	1.82	
06 11 16 00-0106 LF 4" x 8" Redwood, Construction Grade/Rough Post.....	16.66	3.00
For Smooth "Clear", Add	2.42	
06 11 16 00-0107 LF 4" x 10" Redwood, Construction Grade/Rough Post.....	19.96	3.20
For Smooth "Clear", Add	3.02	
06 11 16 00-0108 LF 6" x 6" Redwood, Construction Grade/Rough Post.....	18.43	3.16
For Smooth "Clear", Add	2.72	
06 11 16 00-0109 LF 6" x 8" Redwood, Construction Grade/Rough Post.....	23.15	3.28
For Smooth "Clear", Add	3.63	
06 11 16 00-0110 LF 6" x 10" Redwood, Construction Grade/Rough Post.....	27.83	3.08
For Smooth "Clear", Add	4.54	
06 11 16 00-0111 LF 8" x 8" Redwood, Construction Grade/Rough Post.....	29.46	3.28
For Smooth "Clear", Add	4.84	
06 11 16 00-0112 Stair Stringers (06 11 16)		
06 11 16 00-0113 LF 2" x 10" Wood Stair Stringer	9.46	4.86
06 11 16 00-0114 LF 2" x 12" Wood Stair Stringer	11.22	5.71
06 11 16 00-0115 LF 2" x 10" Pressure Treated Wood Stair Stringer.....	9.38	4.86
06 11 16 00-0116 LF 2" x 12" Pressure Treated Wood Stair Stringer.....	11.23	5.71
06 11 16 00-0117 Blocking And Sleepers (06 11 16)		
06 11 16 00-0118 Blocking (06 11 16 00-0117)		
06 11 16 00-0119 Blocking To Wood (06 11 16 00-0118)		
06 11 16 00-0120 LF 2" x 4" Pressure Treated Wood Blocking To Wood	6.88	2.92
06 11 16 00-0121 LF 2" x 6" Pressure Treated Wood Blocking To Wood	8.15	3.22
06 11 16 00-0122 LF 2" x 8" Pressure Treated Wood Blocking To Wood	9.30	3.53
06 11 16 00-0123 LF 4" x 4" Pressure Treated Wood Blocking To Wood	10.78	3.88
06 11 16 00-0124 LF 4" x 6" Pressure Treated Wood Blocking To Wood	13.01	4.27
06 11 16 00-0125 LF 2" x 4" Wood Blocking To Wood	6.51	2.92
06 11 16 00-0126 LF 2" x 6" Wood Blocking To Wood	7.54	3.22
06 11 16 00-0127 LF 2" x 8" Wood Blocking To Wood	8.66	3.53
06 11 16 00-0128 LF 4" x 4" Wood Blocking To Wood	9.40	3.88
06 11 16 00-0129 LF 4" x 6" Wood Blocking To Wood	10.61	4.27
06 11 16 00-0130 Blocking To Steel (06 11 16 00-0118)		
06 11 16 00-0131 LF 2" x 4" Pressure Treated Wood Blocking To Steel.....	7.85	3.36
06 11 16 00-0132 LF 2" x 6" Pressure Treated Wood Blocking To Steel.....	9.28	3.70
06 11 16 00-0133 LF 2" x 8" Pressure Treated Wood Blocking To Steel.....	10.57	4.07
06 11 16 00-0134 LF 2" x 4" Wood Blocking To Steel	7.45	3.36
06 11 16 00-0135 LF 2" x 6" Wood Blocking To Steel	8.61	3.70
06 11 16 00-0136 LF 2" x 8" Wood Blocking To Steel	9.87	4.07
06 11 16 00-0137 Blocking To Concrete (06 11 16 00-0118)		
06 11 16 00-0138 LF 2" x 4" Pressure Treated Wood Blocking To Concrete	7.85	3.36
06 11 16 00-0139 LF 2" x 6" Pressure Treated Wood Blocking To Concrete	9.28	3.70
06 11 16 00-0140 LF 2" x 8" Pressure Treated Wood Blocking To Concrete	10.57	4.07
06 11 16 00-0141 LF 2" x 4" Wood Blocking To Concrete	7.45	3.36
06 11 16 00-0142 LF 2" x 6" Wood Blocking To Concrete	8.61	3.70
06 11 16 00-0143 LF 2" x 8" Wood Blocking To Concrete	9.87	4.07
06 11 16 00-0144 Sleepers (06 11 16 00-0117)		
06 11 16 00-0145 Sleepers To Wood (06 11 16 00-0144)		
06 11 16 00-0146 LF 1" x 2" Pressure Treated Wood Sleeper On Wood.....	1.28	0.43
06 11 16 00-0147 LF 1" x 3" Pressure Treated Wood Sleeper On Wood.....	1.45	0.49
06 11 16 00-0148 LF 1" x 4" Pressure Treated Wood Sleeper On Wood.....	1.74	0.55
06 11 16 00-0149 LF 2" x 4" Pressure Treated Wood Sleeper On Wood.....	2.38	0.67
06 11 16 00-0150 LF 2" x 6" Pressure Treated Wood Sleeper On Wood.....	3.19	0.73
06 11 16 00-0151 Sleepers To Concrete (06 11 16 00-0144)		
06 11 16 00-0152 LF 1" x 2" Pressure Treated Wood Sleeper On Concrete.....	1.32	0.43
06 11 16 00-0153 LF 1" x 3" Pressure Treated Wood Sleeper On Concrete.....	1.50	0.49

06	06	Wood, Plastics, and Composites
	06 10	Rough Carpentry
	06 11	Wood Framing



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST
06 11 16 00-0154	LF	1" x 4" Pressure Treated Wood Sleeper On Concrete		1.81		0.55
06 11 16 00-0155	LF	2" x 4" Pressure Treated Wood Sleeper On Concrete		2.48		0.67
06 11 16 00-0156	LF	2" x 6" Pressure Treated Wood Sleeper On Concrete		3.36		0.73

END OF SECTION 06



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

07 Thermal and Moisture Protection

07 10 Dampproofing and Waterproofing⁽⁰⁷⁾

07 18 Traffic Coatings^(07 10)

07 18 13 Pedestrian Traffic Coatings^(07 18)

07 18 13 00-0001 Pedestrian Traffic Coating^(07 18 13)

Note: Gaco Western			
07 18 13 00-0002	SF	GACOCRETE A-17, Acrylic Elastomeric Coating	3.21
07 18 13 00-0003	SF	Silicone Enhanced A-30, Acrylic Elastomeric Coating	2.77
For >2,000, Deduct			-0.31
07 18 13 00-0004	SF	Quick Set A-31, Acrylic Elastomeric Coating	2.59
07 18 13 00-0005	SF	A-32, Acrylic Elastomeric Coating	2.88
For >2,000, Deduct			-0.35
07 18 13 00-0006	SF	Liquid Seam Tape A-3611, Acrylic Elastomeric Coating	2.99
For >2,000, Deduct			-0.39
07 18 13 00-0007	SF	A-38, Acrylic Elastomeric Coating	2.94
07 18 13 00-0008	SF	Acrylic Primer A-4121	2.09
07 18 13 00-0009	SF	Two Component Epoxy Emulsion Primer Filler E-5320	3.41
07 18 13 00-0010	SF	Two Component Epoxy Rust Inhibiting Primer E-5388	3.90
07 18 13 00-0011	SF	Two Component 100% Solids Primer E-5481	4.23
07 18 13 00-0012	SF	Hypalon Roof Coating H-25	3.82
07 18 13 00-0013	SF	Neoprene Adhesive N-1207	3.03
07 18 13 00-0014	SF	GACOSIL S-10 Silicone	3.32
For >2,000, Deduct			-0.50
07 18 13 00-0015	SF	GACOSIL S-20 Silicone	3.40
For >2,000, Deduct			-0.53
07 18 13 00-0016	SF	Urethane Primer/Sealer U-5677	2.24
07 18 13 00-0017	SF	Single Component Polyurethane Coating, Ure-Shield Aluminum U-6006	3.10
For >2,000, Deduct			-0.42
07 18 13 00-0018	SF	Two Component Polyurethane Coating U-62	4.64
For >2,000, Deduct			-0.74
07 18 13 00-0019	SF	Two Component Polyurethane Coating, Liquid Applied Polyurethane Rubber U-64	4.11
07 18 13 00-0020	SF	Two Component Polyurethane Coating U-66	4.58
07 18 13 00-0021	SF	Two Component Polyurethane Coating U-8730	4.28
07 18 13 00-0022	SF	Two Component Polyurethane Coating U-8782	4.23
07 18 13 00-0023	SF	Two Component Polyurethane Aliphatic Coating UA-60	5.16
07 18 13 00-0024	SF	Two Component Polyurethane Aliphatic Coating UA-7090	6.33
07 18 13 00-0025	SF	Two Component Polyurethane Base Coating UB-64	4.05
07 18 13 00-0026	SF	Two Component Polyurethane Base Coating UB-8380	3.99
07 18 13 00-0027	SF	Etching Detergent D-09	2.27
07 18 13 00-0028	LB	GacoShell Granules Additive To Coating	2.25
07 18 13 00-0029	LB	Quartz Granules Additive To Coating	2.03
07 18 13 00-0030	LF	4" Polyester Reinforcing Tape, 66-B	0.22
07 18 13 00-0031	LF	6" Polyester Reinforcing Tape, 66-B	0.27
07 18 13 00-0032	LF	4" Sontara Polyester Reinforcing Tape, 66-S	0.34
07 18 13 00-0033	LF	6" Sontara Polyester Reinforcing Tape, 66-S	0.47
07 18 13 00-0034	LF	2" Metal Roof Seam Sealing Tape, 66-MR	0.96
07 18 13 00-0035	LF	3" Metal Roof Seam Sealing Tape, 66-MR	1.48
07 18 13 00-0036	LF	4" Metal Roof Seam Sealing Tape, 66-MR	1.83
07 18 13 00-0037	LF	6" Metal Roof Seam Sealing Tape, 66-MR	2.62
07 18 13 00-0038	GAL	Polyurethane Coating Thinner T-5106	52.64
07 18 13 00-0039	GAL	Compliant Thinner T-5110	109.66
07 18 13 00-0040	GAL	Regular Thinner T-5112	30.70
07 18 13 00-0041	GAL	Polyurethane Coating Thinner T-5116	39.48
07 18 13 00-0042	GAL	Polyurethane Troweling Thinner T-5118	48.25
07 18 13 00-0043	GAL	Compliant Thinner T-5125	52.64
07 18 13 00-0044	GAL	Fast Polyurethane Coating Thinner T-5130	39.48
07 18 13 00-0045	GAL	Silicone And U-62 Polyurethane Coating Thinner T-5135	39.48

07 18 16 Vehicular Traffic Coatings^(07 18)

07 18 16 00-0001 Preparation For Vehicular Traffic Coating^(07 18 16)

See CSI section 03 01 30 71-0024 for crack repairs, 32 17 23 00-0000 for pavement markings.			
07 18 16 00-0002	SF	Grinding Of Existing Concrete Floor Prior To Installation Of Deck Coating	1.12
07 18 16 00-0003	SF	Shot Blasting Concrete Surface For Vehicular Traffic Coating	2.32

07 18 16 00-0004 Vehicular Traffic Coating (Sika)^(07 18 16)

Note: Excludes surface preparation, deck crack repair, joint sealants or pavement markings. See CSI section 03 01 30 71-0024 for crack repairs, 07 18 16 00-0001 for surface preparation, 32 17 23 00-0000 for pavement markings.			
07 18 16 00-0005	SF	23 Mil Thick, Traffic Coating, Two-Component, Elastomeric Polyurethane Waterproofing, Concrete Coating With Primer (Sika Sikalastic® 720)	3.65
Note: Excludes crack repair or caulking.			

07 Thermal and Moisture Protection**07 10 Dampproofing and Waterproofing****07 18 Traffic Coatings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 18 16 00-0006	SF	12 Mil Thick, Vehicular Traffic Bearing Two-Component Aliphatic, Elastomeric Polyurethane, Protective Concrete Coating (Sika Sikalastic®-745 AL)..... Note: Excludes crack repair or caulking.	2.23	
07 18 16 00-0007	SF	14 Mil Thick, Vehicular Traffic Bearing Two-Component Aliphatic, Elastomeric Polyurethane, Protective Concrete Coating (Sika Sikalastic®-745 AL)..... Note: Excludes crack repair or caulking.	2.37	
07 18 16 00-0008	SF	16 Mil Thick, Vehicular Traffic Bearing Two-Component Aliphatic, Elastomeric Polyurethane, Protective Concrete Coating (Sika Sikalastic®-745 AL)..... Note: Excludes crack repair or caulking.	2.53	
07 18 16 00-0009	SF	18 Mil Thick, Vehicular Traffic Bearing Two-Component Aliphatic, Elastomeric Polyurethane, Protective Concrete Coating (Sika Sikalastic®-745 AL)..... Note: Excludes crack repair or caulking.	2.66	
07 18 16 00-0010	SF	14 Mil Thick, Vehicular Traffic Bearing Two-Component Aliphatic, Elastomeric Polyurethane, Wear And Top Concrete Coating (Sika Sikalastic®-745 Textured) Note: Excludes crack repair or caulking.	2.58	
07 18 16 00-0011	SF	16 Mil Thick, Vehicular Traffic Bearing Two-Component Aliphatic, Elastomeric Polyurethane, Wear And Top Concrete Coating (Sika Sikalastic®-745 Textured) Note: Excludes crack repair or caulking.	2.80	
07 18 16 00-0012	SF	18 Mil Thick, Vehicular Traffic Bearing Two-Component Aliphatic, Elastomeric Polyurethane, Wear And Top Concrete Coating (Sika Sikalastic®-745 Textured) Note: Excludes crack repair or caulking.	3.04	

END OF SECTION 07



		Finishes	09
		Maintenance of Finishes	09 01
		Maintenance of Painting and Coating	09 01 90

09

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

09 Finishes

09 01 Maintenance of Finishes (09)

09 01 90 Maintenance of Painting and Coating (09 01)

09 01 90 52 Maintenance Repainting (09 01 90)

09 01 90 52-0001 Cleaning And Preparation Of Painted And Unpainted Surfaces (09 01 90 52)

Note: In excess of surface preparation required. Water blast and pressure washing includes mild detergent and rinsing of surface until detergent free. Media blast and water blast includes canvas/plastic for protection of existing surfaces as well as for containment.

09 01 90 52-0002 Concrete And Masonry Surfaces, Surface Preparation (09 01 90 52-0001)

09 01 90 52-0003	SF	Trisodium Phosphate (TSP), Clean Concrete Or Masonry Surfaces, Surface Preparation	0.54
		For Up To 100, Add	0.39
		For >100 To 250, Add	0.18
		For >250 To 500, Add	0.08
		For >5,000 To 10,000, Deduct	-0.03
		For >10,000 To 15,000, Deduct	-0.05
		For >15,000 To 30,000, Deduct	-0.08
		For >30,000, Deduct	-0.11
09 01 90 52-0004	SF	Calcimine Removal/Washing, Concrete And Masonry Surfaces, Surface Preparation.....	0.55
		For Up To 100, Add	0.90
		For >100 To 250, Add	0.23
		For >250 To 500, Add	0.11
		For >5,000 To 10,000, Deduct	-0.03
		For >10,000 To 15,000, Deduct	-0.05
		For >15,000 To 30,000, Deduct	-0.08
		For >30,000, Deduct	-0.11
09 01 90 52-0005	SF	Chemical Clean, Brush And Wash, Concrete And Masonry Surfaces, Surface Preparation	0.86
		For Up To 100, Add	1.38
		For >100 To 250, Add	0.35
		For >250 To 500, Add	0.17
		For >5,000 To 10,000, Deduct	-0.04
		For >10,000 To 15,000, Deduct	-0.08
		For >15,000 To 30,000, Deduct	-0.12
		For >30,000, Deduct	-0.16
09 01 90 52-0006	SF	Hand Scrape, Concrete And Masonry Surfaces, Surface Preparation	0.72
		For Up To 100, Add	1.44
		For >100 To 250, Add	0.36
		For >250 To 500, Add	0.18
		For >5,000 To 10,000, Deduct	-0.04
		For >10,000 To 15,000, Deduct	-0.07
		For >15,000 To 30,000, Deduct	-0.11
		For >30,000, Deduct	-0.14
09 01 90 52-0007	SF	Steam Clean, Concrete And Masonry Surfaces, Surface Preparation.....	0.81
		For Up To 100, Add	1.32
		For >100 To 250, Add	0.33
		For >250 To 500, Add	0.17
		For >5,000 To 10,000, Deduct	-0.04
		For >10,000 To 15,000, Deduct	-0.08
		For >15,000 To 30,000, Deduct	-0.12
		For >30,000, Deduct	-0.15
09 01 90 52-0008	SF	Up To 5,000 PSI Pressure Wash, Concrete And Masonry Surfaces, Surface Preparation	0.52
		For Up To 100, Add	0.78
		For >100 To 250, Add	0.20
		For >250 To 500, Add	0.10
		For >5,000 To 10,000, Deduct	-0.02
		For >10,000 To 15,000, Deduct	-0.05
		For >15,000 To 30,000, Deduct	-0.07
		For >30,000, Deduct	-0.10
09 01 90 52-0009	SF	10,000 To 12,000 PSI Water Blast, Concrete And Masonry Surfaces, Surface Preparation	1.46
		For Up To 100, Add	2.52
		For >100 To 250, Add	0.63
		For >250 To 500, Add	0.32
		For >5,000 To 10,000, Deduct	-0.07
		For >10,000 To 15,000, Deduct	-0.14
		For >15,000 To 30,000, Deduct	-0.21
		For >30,000, Deduct	-0.28
09 01 90 52-0010	SF	30,000 To 40,000 PSI Water Blast, Concrete And Masonry Surfaces, Surface Preparation	2.40
		For Up To 100, Add	4.40
		For >100 To 250, Add	1.10
		For >250 To 500, Add	0.55
		For >5,000 To 10,000, Deduct	-0.12
		For >10,000 To 15,000, Deduct	-0.23
		For >15,000 To 30,000, Deduct	-0.35
		For >30,000, Deduct	-0.47

09 Finishes**09 01 Maintenance of Finishes****09 01 90 Maintenance of Painting and Coating**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 01 90 52-0011	SF		Abrasive Media Blasting, Concrete And Masonry Surfaces, Surface Preparation 3.48		
			Note: 3 lbs of sand or abrasive media material per SF		
			For 4.5 lbs Of Sand Or Abrasive Media Material per SF, Where Multiple Pass Is Required, Add	2.02	
			For 6 lbs Of Sand Or Abrasive Media Material per SF, Where Multiple Pass Is Required, Add	4.19	
			For 9 lbs Of Sand Or Abrasive Media Material per SF, Where Multiple Pass Is Required, Add	6.96	
			For Up To 100, Add	5.68	
			For >100 To 250, Add	1.42	
			For >250 To 500, Add	0.71	
			For >5,000 To 10,000, Deduct	-0.16	
			For >10,000 To 15,000, Deduct	-0.32	
			For >15,000 To 30,000, Deduct	-0.50	
			For >30,000, Deduct	-0.66	
09 01 90 52-0012			Metal Surfaces, Surface Preparation (09 01 90 52-0001)		
09 01 90 52-0013	SF		Trisodium Phosphate (TSP), Clean Metal Surfaces, Surface Preparation 0.52		
			For Up To 100, Add	0.38	
			For >100 To 250, Add	0.18	
			For >250 To 500, Add	0.08	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000 To 15,000, Deduct	-0.05	
			For >15,000 To 30,000, Deduct	-0.08	
			For >30,000, Deduct	-0.10	
09 01 90 52-0014	SF		Chemical Clean, Brush And Wash, Metal Surfaces, Surface Preparation 0.86		
			For Up To 100, Add	0.52	
			For >100 To 250, Add	0.24	
			For >250 To 500, Add	0.10	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000 To 15,000, Deduct	-0.08	
			For >15,000 To 30,000, Deduct	-0.12	
			For >30,000, Deduct	-0.16	
09 01 90 52-0015	SF		Hand Scraping And Sanding, Metal Surfaces, Surface Preparation 0.72		
			For Up To 100, Add	0.54	
			For >100 To 250, Add	0.25	
			For >250 To 500, Add	0.11	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000 To 15,000, Deduct	-0.07	
			For >15,000 To 30,000, Deduct	-0.11	
			For >30,000, Deduct	-0.14	
09 01 90 52-0016	SF		Up To 5,000 PSI Pressure Wash, Metal Surfaces, Surface Preparation 0.49		
			For Up To 100, Add	0.29	
			For >100 To 250, Add	0.14	
			For >250 To 500, Add	0.06	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 15,000, Deduct	-0.05	
			For >15,000 To 30,000, Deduct	-0.07	
			For >30,000, Deduct	-0.09	
09 01 90 52-0017	SF		Power Tool Cleaning, Metal Surfaces, Surface Preparation 1.32		
			For Up To 100, Add	0.99	
			For >100 To 250, Add	0.46	
			For >250 To 500, Add	0.20	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 15,000, Deduct	-0.13	
			For >15,000 To 30,000, Deduct	-0.20	
			For >30,000, Deduct	-0.26	
09 01 90 52-0018	SF		Steam Cleaning, Metal Surfaces, Surface Preparation 0.51		
			For Up To 100, Add	0.27	
			For >100 To 250, Add	0.13	
			For >250 To 500, Add	0.05	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 15,000, Deduct	-0.05	
			For >15,000 To 30,000, Deduct	-0.07	
			For >30,000, Deduct	-0.09	
09 01 90 52-0019	SF		Loose Mill Scale With Fine Powder, Commercial Blast, Metal Surfaces, Surface Preparation 1.09		
			For Up To 100, Add	0.67	
			For >100 To 250, Add	0.31	
			For >250 To 500, Add	0.13	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 15,000, Deduct	-0.10	
			For >15,000 To 30,000, Deduct	-0.16	
			For >30,000, Deduct	-0.21	
09 01 90 52-0020	SF		Tight Mill Scale With Fine Powder Rust, Commercial Blast, Metal Surfaces, Surface Preparation 1.49		
			For Up To 100, Add	0.89	
			For >100 To 250, Add	0.42	
			For >250 To 500, Add	0.18	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 15,000, Deduct	-0.14	
			For >15,000 To 30,000, Deduct	-0.21	
			For >30,000, Deduct	-0.28	
09 01 90 52-0021	SF		Exterior Coating Blistered Pitted, Rust, Commercial Blast, Metal Surfaces, Surface Preparation 2.18		
			For Up To 100, Add	1.34	
			For >100 To 250, Add	0.62	
			For >250 To 500, Add	0.27	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 15,000, Deduct	-0.20	
			For >15,000 To 30,000, Deduct	-0.32	
			For >30,000, Deduct	-0.42	



		Finishes	09	09
		Maintenance of Finishes	09 01	
		Maintenance of Painting and Coating	09 01 90	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 01 90 52-0022	SF		Badly Pitted With Rust Nodules, Commercial Blast, Metal Surfaces, Surface Preparation	3.63	
			For Up To 100, Add	2.22	
			For >100 To 250, Add	1.04	
			For >250 To 500, Add	0.44	
			For >5,000 To 10,000, Deduct	-0.17	
			For >10,000 To 15,000, Deduct	-0.34	
			For >15,000 To 30,000, Deduct	-0.52	
			For >30,000, Deduct	-0.69	
09 01 90 52-0023	SF		Loose Mill Scale With Fine Powder Rust, Near White Blast, Metal Surfaces, Surface Preparation	2.77	
			For Up To 100, Add	1.67	
			For >100 To 250, Add	0.78	
			For >250 To 500, Add	0.33	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 15,000, Deduct	-0.26	
			For >15,000 To 30,000, Deduct	-0.40	
			For >30,000, Deduct	-0.53	
09 01 90 52-0024	SF		Tight Mill Scale Little Rust, Near White Blast, Metal Surfaces, Surface Preparation	3.43	
			For Up To 100, Add	2.05	
			For >100 To 250, Add	0.96	
			For >250 To 500, Add	0.41	
			For >5,000 To 10,000, Deduct	-0.16	
			For >10,000 To 15,000, Deduct	-0.32	
			For >15,000 To 30,000, Deduct	-0.49	
			For >30,000, Deduct	-0.65	
09 01 90 52-0025	SF		Exterior Coat Blistered Pitted Rust, Near White Blast, Metal Surfaces, Surface Preparation	4.45	
			For Up To 100, Add	2.67	
			For >100 To 250, Add	1.25	
			For >250 To 500, Add	0.53	
			For >5,000 To 10,000, Deduct	-0.20	
			For >10,000 To 15,000, Deduct	-0.41	
			For >15,000 To 30,000, Deduct	-0.64	
			For >30,000, Deduct	-0.85	
09 01 90 52-0026	SF		Badly Pitted Rust Nodules, Near White Blast, Metal Surfaces, Surface Preparation	5.56	
			For Up To 100, Add	3.33	
			For >100 To 250, Add	1.55	
			For >250 To 500, Add	0.67	
			For >5,000 To 10,000, Deduct	-0.26	
			For >10,000 To 15,000, Deduct	-0.51	
			For >15,000 To 30,000, Deduct	-0.80	
			For >30,000, Deduct	-1.06	
09 01 90 52-0027			Wood Surfaces, Surface Preparation (09 01 90 52-0001)		
09 01 90 52-0028	SF		Prepare New Wood Floor For Finish, Multi Grit Sanding/Screening	1.59	
			For Up To 100, Add	1.13	
			For >100 To 250, Add	0.53	
			For >250 To 500, Add	0.23	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 15,000, Deduct	-0.16	
			For >15,000 To 30,000, Deduct	-0.24	
			For >30,000, Deduct	-0.31	
09 01 90 52-0029	SF		Trisodium Phosphate (TSP), Clean Wood Surfaces, Surface Preparation	0.49	
			For Up To 100, Add	0.35	
			For >100 To 250, Add	0.16	
			For >250 To 500, Add	0.07	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 15,000, Deduct	-0.05	
			For >15,000 To 30,000, Deduct	-0.07	
			For >30,000, Deduct	-0.10	
09 01 90 52-0030	SF		Chemical Clean, Brush And Wash Wood Surfaces, Surface Preparation	0.72	
			For Up To 100, Add	0.41	
			For >100 To 250, Add	0.19	
			For >250 To 500, Add	0.08	
			For >5,000 To 10,000, Deduct	-0.03	
			For >10,000 To 15,000, Deduct	-0.07	
			For >15,000 To 30,000, Deduct	-0.10	
			For >30,000, Deduct	-0.14	
09 01 90 52-0031	SF		Hand Scrape Wood Surfaces, Surface Preparation	0.82	
			For Up To 100, Add	0.62	
			For >100 To 250, Add	0.29	
			For >250 To 500, Add	0.12	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000 To 15,000, Deduct	-0.08	
			For >15,000 To 30,000, Deduct	-0.12	
			For >30,000, Deduct	-0.16	
09 01 90 52-0032	SF		Steam Clean Wood Surfaces, Surface Preparation	0.79	
			For Up To 100, Add	0.48	
			For >100 To 250, Add	0.22	
			For >250 To 500, Add	0.10	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000 To 15,000, Deduct	-0.07	
			For >15,000 To 30,000, Deduct	-0.11	
			For >30,000, Deduct	-0.15	

09 Finishes**09 01 Maintenance of Finishes****09 01 90 Maintenance of Painting and Coating**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 01 90 52-0033 SF Up To 5,000 PSI, Pressure Wash Wood Surfaces, Surface Preparation.....	0.54	
For Up To 100, Add	0.33	
For >100 To 250, Add	0.15	
For >250 To 500, Add	0.07	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 15,000, Deduct	-0.05	
For >15,000 To 30,000, Deduct	-0.08	
For >30,000, Deduct	-0.10	
09 01 90 52-0034 SF Sanding Wood Paneling, Boards, Doors Or Other Wood Surfaces, Surface Preparation	0.98	
For Up To 100, Add	0.68	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.14	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 15,000, Deduct	-0.09	
For >15,000 To 30,000, Deduct	-0.14	
For >30,000, Deduct	-0.19	
09 01 90 52-0035 SF Sanding Wood Trim Surfaces, Surface Preparation	1.32	
For Up To 100, Add	0.93	
For >100 To 250, Add	0.43	
For >250 To 500, Add	0.19	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 15,000, Deduct	-0.13	
For >15,000 To 30,000, Deduct	-0.20	
For >30,000, Deduct	-0.26	
09 01 90 52-0036 SF Prime Wood Surfaces With Linseed Oil, 1 Coat, Surface Preparation.....	0.86	
For Up To 100, Add	0.55	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000 To 15,000, Deduct	-0.08	
For >15,000 To 30,000, Deduct	-0.13	
For >30,000, Deduct	-0.17	
09 01 90 52-0037 SF Paint Wood Surfaces With Linseed Oil, 1 Coat, Surface Preparation.....	1.00	
For Up To 100, Add	0.65	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 15,000, Deduct	-0.09	
For >15,000 To 30,000, Deduct	-0.15	
For >30,000, Deduct	-0.19	
09 01 90 52-0038 Prep Work (09 01 90 52-0001)		
09 01 90 52-0039 SF Citrus Strip, Single Applications.....	1.27	
Note: For removal of up to 40 mils each application (average 5 layers at 8 mils per layer) dried latex and oil-based paint, varnish, lacquer, polyurethane and shellac from wood, metal, and masonry surfaces. Multiple applications may be necessary, refer to manufacturer recommendations		
09 01 90 52-0040 Corrosive Inhibitor Sealant For Concrete (09 01 90 52-0001)		
09 01 90 52-0041 SF Corrosive Inhibitor Sealant For Concrete.....	0.85	
For Up To 100, Add	0.43	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
09 01 90 61 Repainting (09 01 90)		
09 01 90 61-0001 Touchup and "Spot" Painting Of Surfaces (09 01 90 61)		
Note: For use on individual areas less than 10 SF.		
09 01 90 61-0002 SF "Spot" Paint Drywall, Plaster, Wood And Concrete Surfaces, Per Coat.....	1.63	
09 01 90 91 Paint Restoration (09 01 90)		
09 01 90 91-0001 Paint Removal, Strip To Bare Wood (09 01 90 91)		
09 01 90 91-0002 SF Flat Surfaces, Paint Removal, Strip To Bare Wood	8.52	
09 01 90 91-0003 SF Cornices And Decorative Trim To 12" Wide, Paint Removal, Strip To Bare Wood	9.07	

09 90 Painting and Coating (09)

Note: Includes masking, safety signs, cleaning of area (dry wiping down walls, floors, doors, etc.), removal of loose paint (paint, caulk, etc.), feathering rough edges, sanding between coats, protective work to contain dust and paint splatters (drop cloths), unless otherwise noted, removal and reinstallation of cabinet hardware, switch covers and outlet plates, equipment to place paint and ladders. New construction work additionally includes filling knots, divots, depressions, holes (screw and nail holes in drywall to 1/4" diameter of unlimited quantity). All work designated as "brush/roller" includes brush work for cut and roller work up to cut in.

09 91 Painting (09 90)**09 91 33 Painting Materials** (09 91)

Note: Paint per gallon for owners to obtain extra paint. Not to be used in conjunction with other painting tasks.

09 91 33 00-0001 Primer (09 91 33)

09 91 33 00-0002 GAL Alkyd Primer/Sealer, Interior, 500 SF Per Gallon.....	53.94
09 91 33 00-0003 GAL Alkyd Wood Primer, Exterior, 400 SF Per Gallon	39.35



		Finishes	09	2
		Painting and Coating	09 90	
		Painting	09 91	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 33 00-0004	GAL	Prime Coat Oil Wood Primer, 310 SF Per Gallon	49.89	
09 91 33 00-0005	GAL	Catalyzed Epoxy Primer, Two Component Type, 425 SF Per Gallon	123.43	
09 91 33 00-0006	EA	Cement Base Primer, 25 LB Sack	41.15	
09 91 33 00-0007	GAL	Alkali Resistant Concrete And Masonry Primer, Exterior, 225 SF Per Gallon	63.43	
09 91 33 00-0008	GAL	Alkali Resistant Concrete And Masonry Primer, Interior, 225 SF Per Gallon	50.92	
09 91 33 00-0009	GAL	Acrylic Latex Primer, Flat Exterior, Fast Drying Wood Undercoat And Back Primer, 400 SF per Gallon	39.35	
09 91 33 00-0010	GAL	Acrylic (Vinyl Acrylic) Block Filler, 50 SF Per Gallon	35.75	
09 91 33 00-0011	GAL	Acrylic (Vinyl Acrylic) Rust Inhibiting Metal, Primer - 500 SF Per Gallon: Paint - 260 SF Per Gallon	63.01	
09 91 33 00-0012	GAL	Acrylic Heavy Duty Wall Primer/Sealer, Low Odor Type, Alkali-Resistant, 800 SF Per Gallon	52.46	
09 91 33 00-0013	GAL	Acrylic (Vinyl Acrylic) Undercoat, All Purpose, Interior/Exterior, 500 SF Per Gallon	52.46	
09 91 33 00-0014	GAL	Latex Wood Primer, Exterior, 300 SF Per Gallon	59.15	
09 91 33 00-0015	GAL	Linseed (Oil Base) Primer, Exterior/Interior, 300 SF Per Gallon	38.58	
09 91 33 00-0016	GAL	Red Alkyd Primer, 500 SF Per Gallon	92.32	
09 91 33 00-0017	GAL	Wood Sealer/Primer, Interior, Clear, 600 SF Per Gallon	41.15	
09 91 33 00-0018	GAL	Zinc Chromate Primer, 300 SF Per Gallon	32.92	
09 91 33 00-0019	GAL	Zinc Dust/Zinc Oxide Primer, 300 SF Per Gallon	85.12	
09 91 33 00-0020	GAL	Stain Killer, Alcohol Base	53.08	
09 91 33 00-0021	GAL	Sealer, Primer Kilz, 400 SF Per Gallon	59.89	
09 91 33 00-0022 Paint (09 91 33)				
09 91 33 00-0023	GAL	Aluminum Fiber Roof Coat On Composition Roof, 50 SF Per Gallon	28.80	
09 91 33 00-0024	GAL	Acrylic Urethane Sealer	142.81	
09 91 33 00-0025	GAL	Asphalt-Fiber Roof And Foundation Coating, Solvent Type	15.43	
		Note: 75 SF per gallon on roof or concrete, 100 SF per gallon on metal.		
09 91 33 00-0026	GAL	Concrete Enamel Epoxy, 350 SF Per Gallon	89.24	
09 91 33 00-0027	GAL	Concrete Acrylic Sealer, 400 SF Per Gallon	46.80	
09 91 33 00-0028	GAL	Tar Emulsion, Driveway Coating, 120 SF Per Gallon	15.43	
09 91 33 00-0029	GAL	Acrylic Latex, Driveway Coating, 250 SF Per Gallon	23.40	
09 91 33 00-0030	GAL	Exterior, Oil Base, Gloss Enamel, 400 SF Per Gallon	63.82	
09 91 33 00-0031	GAL	Exterior, Oil Base, Gloss, 400 SF Per Gallon	63.01	
09 91 33 00-0032	GAL	Exterior, Oil Base, Semi-Gloss, 400 SF Per Gallon	51.43	
09 91 33 00-0033	GAL	Exterior, Flat, Oil Base	47.15	
09 91 33 00-0034	GAL	Exterior, Latex, Semi-Gloss, 400 SF Per Gallon	44.75	
09 91 33 00-0035	GAL	Exterior, Flat Latex, Trim Paint, 500 SF Per Gallon	52.72	
09 91 33 00-0036	GAL	Exterior, Latex Flat Paint, 300 SF Per Gallon	46.80	
09 91 33 00-0037	GAL	Exterior, Water Base, Latex Gloss Enamel	66.62	
09 91 33 00-0038	GAL	Cold Galvanizing Paint	339.53	
09 91 33 00-0039	GAL	High Heat Paint	130.69	
09 91 33 00-0040	GAL	Heat Resistant Paint	87.13	
09 91 33 00-0041	GAL	Zinc Chromate Paint	78.83	
09 91 33 00-0042	QT	Anti-Rust Enamel, 500 SF Per Quart	31.12	
09 91 33 00-0043	GAL	Rust Inhibitor, Ferrous Metal	87.13	
09 91 33 00-0044	GAL	Masonry Waterproofing, 100 SF Per Gallon	46.80	
09 91 33 00-0045	GAL	Alkyd Latex, Black	58.78	
09 91 33 00-0046	GAL	Alkyd Latex, White	58.78	
09 91 33 00-0047	GAL	Alkyd Latex, Colors	70.88	
09 91 33 00-0048	QT	Wrought Iron Paint, Black	79.52	
09 91 33 00-0049	GAL	Vinyl Paint	78.69	
09 91 33 00-0050	GAL	Silicone Alkyd	95.67	
09 91 33 00-0051	GAL	2 Component Solvent Based Acrylic Epoxy	97.21	
09 91 33 00-0052	GAL	2 Component Solvent Based Polyester Epoxy	121.90	
09 91 33 00-0053	GAL	Chlorinated Rubber	89.49	
09 91 33 00-0054	GAL	Polyamide Epoxy Sealer	92.58	
09 91 33 00-0055	GAL	Coal Tar Epoxy	66.35	
09 91 33 00-0056	GAL	Swimming Pool Enamel, 350 SF Per Gallon	82.81	
09 91 33 00-0057	GAL	Swimming Pool Epoxy Or Urethane Base	108.01	
09 91 33 00-0058	GAL	Swimming Pool Rubber Base	74.06	
09 91 33 00-0059	GAL	Interior, Latex Flat Paint, 300 SF Per Gallon	47.06	
09 91 33 00-0060	GAL	Interior, Latex Eggshell Or Semi-Gloss Enamel, 300 SF Per Gallon	52.72	
09 91 33 00-0061	GAL	Interior, Fire-Retardant Flat Paint, 200 SF Per Gallon	96.44	
09 91 33 00-0062	GAL	Interior, Ceiling White Latex Flat, 350 SF Per Gallon	32.66	
09 91 33 00-0063	GAL	Linseed Oil	28.55	
09 91 33 00-0064	GAL	Latex Floor Paint, 300 SF Per Gallon	46.80	
09 91 33 00-0065	GAL	Acrylic Floor Paint, 400 SF Per Gallon	52.72	
09 91 33 00-0066	GAL	Textured Paint, Sand Texture Latex, Armor Coat, 100 SF Per Gallon	48.22	
09 91 33 00-0067	GAL	Acoustic Spray-On Texture, Finish	38.75	
09 91 33 00-0068 Stain, Varnish (09 91 33)				
09 91 33 00-0069	GAL	Thompson Water Sealer, 150 SF Per Gallon	26.75	
09 91 33 00-0070	GAL	Latex Redwood Stain, Water Base, 300 SF Per Gallon	49.89	
09 91 33 00-0071	GAL	Redwood Oil Stain, 300 SF Per Gallon	44.49	
09 91 33 00-0072	GAL	Varnish, Clear	39.38	
09 91 33 00-0073	GAL	Penetrating Water-Repellent Stain	28.60	
09 91 33 00-0074	GAL	Redwood Hue Or Clear Stain	25.56	
09 91 33 00-0075	GAL	Polyurethane	44.88	
09 91 33 00-0076	GAL	Lacquer, Semi-Gloss	46.94	
09 91 33 00-0077	GAL	Shellac, Clear	61.58	
09 91 33 00-0078	GAL	Acetone	20.32	
09 91 33 00-0079	GAL	Paint Thinner	5.01	

09 Finishes**09 90 Painting and Coating****09 91 Painting**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 33 00-0080	GAL	Shellac Or Lacquer Thinner	20.57	
09 91 33 00-0081	GAL	Turpentine.....	28.29	
09 91 33 00-0082	GAL	Wood Filler Paste	48.35	
09 91 33 00-0083	GAL	Wood Preservative, Pentachlorophenol, General Purpose, 40%, 150 SF Per Gallon	38.58	
09 91 33 00-0084	GAL	Waterbased Alkyd Urethane (Sherwin Williams B53W01153).....	99.03	
09 91 43		Surface Preparation (09 91)		
		See CSI section 09 01 90 52-0000 for preparation on painted or unpainted surfaces.		
09 93		Staining and Transparent Finishing (09 90)		
		Note: Includes light sanding or screening between coats.		
09 93 13		Exterior Staining and Finishing (09 93)		
09 93 13 53		Exterior Finishing (09 93 13)		
09 93 13 53-0001		Stain Sealer (09 93 13 53)		
		Note: Measured by surface area of wall or ceiling.		
09 93 13 53-0002	SF	Stain Sealer, Brush Work.....	1.08	
		For Ceiling Work, Add	0.14	
		For >5,000 To 10,000, Deduct	-0.03	
		For >10,000 To 20,000, Deduct	-0.06	
		For >20,000, Deduct	-0.09	
09 93 13 53-0003	SF	Stain Sealer, Brush/Roller Work	0.87	
		For Ceiling Work, Add	0.11	
		For >5,000 To 10,000, Deduct	-0.02	
		For >10,000 To 20,000, Deduct	-0.05	
		For >20,000, Deduct	-0.07	
09 93 13 53-0004	SF	Stain Sealer, Sprayed.....	0.34	
		For Ceiling Work, Add	0.03	
		For >5,000 To 10,000, Deduct	-0.01	
		For >10,000 To 20,000, Deduct	-0.02	
		For >20,000, Deduct	-0.03	
09 93 23		Interior Staining and Finishing (09 93)		
		Note: VOC compliant in all regulated areas, review specifications for levels.		
09 93 23 13		Interior Staining (09 93 23)		
09 93 23 13-0001		Stain Wood Floor (09 93 23 13)		
09 93 23 13-0002	SF	Stain Or Varnish Wood Floor, 1 Coat Stain, Brush Work.....	0.61	
		For Up To 100, Add	0.38	
		For >100 To 250, Add	0.18	
		For >250 To 500, Add	0.08	
		For >4,000, Deduct	-0.03	
09 93 23 13-0003	SF	Stain Or Varnish Wood Floor, 1 Coat Stain, Brush/Roller Work	0.45	
		For Up To 100, Add	0.26	
		For >100 To 250, Add	0.13	
		For >250 To 500, Add	0.05	
		For >4,000, Deduct	-0.02	
09 93 23 53		Interior Finishing (09 93 23)		
09 93 23 53-0001		Concrete Finishes (09 93 23 53)		
09 93 23 53-0002	SF	Finish Concrete Floor, 1 Coat Polyurethane	0.92	
		For Up To 100, Add	0.56	
		For >100 To 250, Add	0.27	
		For >250 To 500, Add	0.12	
		For >4,000, Deduct	-0.05	
09 93 23 53-0003		Wood Floor Finishes (09 93 23 53)		
09 93 23 53-0004	SF	Refinish Wood Floor, 2 Coats Polyurethane	3.38	
		Note: Includes sanding existing floor.		
		For Up To 100, Add	2.40	
		For >100 To 250, Add	1.13	
		For >250 To 500, Add	0.49	
		For >4,000, Deduct	-0.17	
09 93 23 53-0005	SF	Polyurethane Wood Floor, 1 Coat Polyurethane, With Wool Applicator Or Brush Work.....	0.80	
		Note: Includes screening between coats.		
		For Up To 100, Add	0.53	
		For >100 To 250, Add	0.25	
		For >250 To 500, Add	0.11	
		For >4,000, Deduct	-0.04	
09 93 23 53-0006	SF	Refinish Wood Floor, 1 Coat Sealer And 2 Coats Polyurethane.....	3.85	
		Note: Includes sanding existing floor.		
		For Up To 100, Add	2.71	
		For >100 To 250, Add	1.28	
		For >250 To 500, Add	0.55	
		For >4,000, Deduct	-0.19	



		Finishes	09
		Painting and Coating	09 90
		High-Performance Coatings	09 96

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

09 96 High-Performance Coatings (09 90)**09 96 56 Epoxy Coatings** (09 96)**09 96 56 00-0001 High Build Epoxy** (09 96 56)

09 96 56 00-0002 SF 50 Mil, High Build Epoxy 3.93

09 96 56 00-0003 Laminated Epoxy With Fiberglass (09 96 56)

09 96 56 00-0004 SF Laminated Epoxy With Fiberglass 6.42

09 96 66 Aggregate Wall Coatings (09 96)**09 96 66 00-0001 Troweled On** (09 96 66)

09 96 66 00-0002 SF Exposed Aggregate - 1/16" To 1/4" - Troweled On 4.87

09 96 66 00-0003 SF Exposed Aggregate - 1/2" To 5/8" Troweled On 8.74

09 96 66 00-0004 SF Exposed Aggregate - 1" Troweled On 13.03

09 96 66 00-0005 Sprayed On (09 96 66)

09 96 66 00-0006 SF Exposed Aggregate - 1/8" - Sprayed On 3.97

09 97 Special Coatings (09 90)**09 97 13 Steel Coatings** (09 97)**09 97 13 23 Exterior Steel Coatings** (09 97 13)

Note: Steel Structure Painting Council, SSPC; Surface Preparation, SP.

09 97 13 23-0001 Surface Preparation For Structural Steel (09 97 13 23)

Note: Type 1 structural steel - up to 2 SF per LF, Type 2 structural steel - over 2 SF to 5 SF per LF, Type 3 structural steel - over 5 SF per LF, and piping - under 14" diameter.

09 97 13 23-0002 SSPC SP7 Brush Off Blast Cleaning Surface Preparation For Structural Steel (09 97 13 23-0001)

Note: A Brush-Off Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, loose mill scale, loose rust and loose paint. Tightly adherent mill scale, rust and paint may remain on the surface. Mill scale, rust and coating are considered adherent if they cannot be removed by lifting with a dull putty knife after abrasive blast cleaning has been performed. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods. For complete instructions, refer to Joint Surface Preparation Standard SSPC-SP11

09 97 13 23-0003 SF Type 1 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation 1.10

For Up To 100, Add 0.77

For >100 To 250, Add 0.36

For >250 To 500, Add 0.16

09 97 13 23-0004 SF Type 2 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation 0.97

For Up To 100, Add 0.68

For >100 To 250, Add 0.32

For >250 To 500, Add 0.14

09 97 13 23-0005 SF Type 3 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation 0.96

For Up To 100, Add 0.68

For >100 To 250, Add 0.32

For >250 To 500, Add 0.14

09 97 13 23-0006 SF Up To 14" Diameter Pipe SP7 Brush Off Blast Cleaning Surface Preparation 1.37

For Up To 100, Add 0.97

For >100 To 250, Add 0.46

For >250 To 500, Add 0.20

09 97 13 23-0007 SSPC SP6 Commercial Blast Cleaning Surface Preparation For Structural Steel (09 97 13 23-0001)

Note: A Commercial Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products and other foreign matter, except for staining. Staining shall be limited to no more than 33% of each square inch of surface area and may consist of light shadows, slight streaks or minor discoloration caused by stains of rust, stains of mill scale or stains of previously applied paint. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods. For complete instructions, refer to Joint Surface Preparation Standard SSPC-SP6/NACE 3 or ISO 8501-1 Sa 2.

09 97 13 23-0008 SF Type 1 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation 2.85

For Up To 100, Add 2.04

For >100 To 250, Add 0.96

For >250 To 500, Add 0.41

09 97 13 23-0009 SF Type 2 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation 2.48

For Up To 100, Add 1.76

For >100 To 250, Add 0.83

For >250 To 500, Add 0.36

09 97 13 23-0010 SF Type 3 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation 2.30

For Up To 100, Add 1.63

For >100 To 250, Add 0.77

For >250 To 500, Add 0.33

09 Finishes**09 90 Painting and Coating****09 97 Special Coatings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0011	SF	Up To 14" Diameter Pipe SP6 Commercial Blast Cleaning Surface Preparation.....	3.57	
		For Up To 100, Add	2.58	
		For >100 To 250, Add	1.21	
		For >250 To 500, Add	0.52	
09 97 13 23-0012		SSPC SP5 White Metal Blast Cleaning Surface Preparation For Structural Steel (09 97 13 23-0001)		
		Note: A White Metal Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products and other foreign matter. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods. For complete Instructions, refer to Joint Surface Preparation Standard SSPC-SP5/NACE 1 or ISO 8501-1 Sa 3.		
09 97 13 23-0013	SF	Type 1 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation.....	5.53	
		For Up To 100, Add	3.98	
		For >100 To 250, Add	1.87	
		For >250 To 500, Add	0.80	
09 97 13 23-0014	SF	Type 2 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation.....	4.73	
		For Up To 100, Add	3.39	
		For >100 To 250, Add	1.59	
		For >250 To 500, Add	0.68	
09 97 13 23-0015	SF	Type 3 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation.....	4.34	
		For Up To 100, Add	3.10	
		For >100 To 250, Add	1.45	
		For >250 To 500, Add	0.63	
09 97 13 23-0016	SF	Up To 14" Diameter Pipe SP5 White Metal Blast Cleaning Surface Preparation.....	6.69	
		For Up To 100, Add	4.85	
		For >100 To 250, Add	2.27	
		For >250 To 500, Add	0.98	
09 97 13 23-0017		SSPC SP10 Near White Metal Blast Cleaning Surface Preparation For Structural Steel (09 97 13 23-0001)		
		Note: A Near-White Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products and other foreign matter, except for staining. Staining shall be limited to no more than 5 percent of each square inch of surface area and may consist of light shadows, slight streaks or minor discoloration caused by stains of rust, stains of mill scale or stains of previously applied paint. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods. For complete instructions, refer to Joint Surface Preparation Standard SSPC-SP10/NACE 2 or ISO 8501-1 Sa 2.5.		
09 97 13 23-0018	SF	Type 1 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation	4.12	
		For Up To 100, Add	2.95	
		For >100 To 250, Add	1.38	
		For >250 To 500, Add	0.60	
09 97 13 23-0019	SF	Type 2 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation	3.50	
		For Up To 100, Add	2.51	
		For >100 To 250, Add	1.18	
		For >250 To 500, Add	0.51	
09 97 13 23-0020	SF	Type 3 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation	3.30	
		For Up To 100, Add	2.36	
		For >100 To 250, Add	1.11	
		For >250 To 500, Add	0.48	
09 97 13 23-0021	SF	Up To 14" Diameter Pipe SP10 Near White Metal Blast Cleaning Surface Preparation.....	4.87	
		For Up To 100, Add	3.53	
		For >100 To 250, Add	1.65	
		For >250 To 500, Add	0.71	
09 97 13 23-0022		Protective Coatings For Tanks And Structural Steel (09 97 13 23)		
		Note: Type 1 structural steel - up to 2 SF per LF, Type 2 structural steel - over 2 SF to 5 SF per LF, Type 3 structural steel - over 5 SF per LF, and piping - under 14" diameter.		
09 97 13 23-0023		1.5 Mil Prime Coat For Structural Steel (09 97 13 23-0022)		
09 97 13 23-0024	SF	Spray Type 1 Structural Steel 1.5 Mil Prime Coat.....	1.15	
		For Up To 100, Add	0.75	
		For >100 To 250, Add	0.36	
		For >250 To 500, Add	0.15	
09 97 13 23-0025	SF	Spray Type 2 Structural Steel 1.5 Mil Prime Coat.....	0.85	
		For Up To 100, Add	0.54	
		For >100 To 250, Add	0.26	
		For >250 To 500, Add	0.11	
09 97 13 23-0026	SF	Spray Type 3 Structural Steel 1.5 Mil Prime Coat.....	0.77	
		For Up To 100, Add	0.48	
		For >100 To 250, Add	0.23	
		For >250 To 500, Add	0.10	
09 97 13 23-0027	SF	Spray Up To 14" Diameter Pipe 1.5 Mil Prime Coat	1.37	
		For Up To 100, Add	0.92	
		For >100 To 250, Add	0.43	
		For >250 To 500, Add	0.19	
09 97 13 23-0028	SF	Brush Type 1 Structural Steel 1.5 Mil Prime Coat.....	1.63	
		For Up To 100, Add	1.11	
		For >100 To 250, Add	0.52	
		For >250 To 500, Add	0.23	



		Finishes	09	
		Painting and Coating	09 90	
		Special Coatings	09 97	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0029	SF		Brush Type 2 Structural Steel 1.5 Mil Prime Coat.....	1.21	
			For Up To 100, Add	0.81	
			For >100 To 250, Add	0.38	
			For >250 To 500, Add	0.17	
09 97 13 23-0030	SF		Brush Type 3 Structural Steel 1.5 Mil Prime Coat.....	1.08	
			For Up To 100, Add	0.71	
			For >100 To 250, Add	0.34	
			For >250 To 500, Add	0.15	
09 97 13 23-0031	SF		Brush Up To 14" Diameter Pipe 1.5 Mil Prime Coat	1.95	
			For Up To 100, Add	1.35	
			For >100 To 250, Add	0.64	
			For >250 To 500, Add	0.27	
09 97 13 23-0032			1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats For Structural Steel (09 97 13 23-0022)		
09 97 13 23-0033	SF		Spray Type 1 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	3.38	
			For Up To 100, Add	2.18	
			For >100 To 250, Add	1.04	
			For >250 To 500, Add	0.45	
09 97 13 23-0034	SF		Spray Type 2 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	2.45	
			For Up To 100, Add	1.51	
			For >100 To 250, Add	0.72	
			For >250 To 500, Add	0.31	
09 97 13 23-0035	SF		Spray Type 3 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	2.29	
			For Up To 100, Add	1.39	
			For >100 To 250, Add	0.67	
			For >250 To 500, Add	0.29	
09 97 13 23-0036	SF		Spray Up To 14" Diameter Pipe 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	4.11	
			For Up To 100, Add	2.71	
			For >100 To 250, Add	1.28	
			For >250 To 500, Add	0.55	
09 97 13 23-0037	SF		Spray Type 1 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	2.54	
			For Up To 100, Add	1.64	
			For >100 To 250, Add	0.78	
			For >250 To 500, Add	0.34	
09 97 13 23-0038	SF		Spray Type 2 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	1.85	
			For Up To 100, Add	1.14	
			For >100 To 250, Add	0.55	
			For >250 To 500, Add	0.24	
09 97 13 23-0039	SF		Spray Type 3 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	1.71	
			For Up To 100, Add	1.04	
			For >100 To 250, Add	0.50	
			For >250 To 500, Add	0.22	
09 97 13 23-0040	SF		Spray Up To 14" Diameter Pipe 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	3.08	
			For Up To 100, Add	2.03	
			For >100 To 250, Add	0.96	
			For >250 To 500, Add	0.42	
09 97 13 23-0041	SF		Brush Type 1 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	5.17	
			For Up To 100, Add	3.52	
			For >100 To 250, Add	1.66	
			For >250 To 500, Add	0.72	
09 97 13 23-0042	SF		Brush Type 2 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	3.69	
			For Up To 100, Add	2.44	
			For >100 To 250, Add	1.16	
			For >250 To 500, Add	0.50	
09 97 13 23-0043	SF		Brush Type 3 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	3.40	
			For Up To 100, Add	2.23	
			For >100 To 250, Add	1.06	
			For >250 To 500, Add	0.46	
09 97 13 23-0044	SF		Brush Up To 14" Diameter Pipe 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	6.33	
			For Up To 100, Add	4.38	
			For >100 To 250, Add	2.06	
			For >250 To 500, Add	0.89	
09 97 13 23-0045	SF		Brush Type 1 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	3.88	
			For Up To 100, Add	2.64	
			For >100 To 250, Add	1.25	
			For >250 To 500, Add	0.54	
09 97 13 23-0046	SF		Brush Type 2 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	2.76	
			For Up To 100, Add	1.82	
			For >100 To 250, Add	0.86	
			For >250 To 500, Add	0.37	
09 97 13 23-0047	SF		Brush Type 3 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	2.55	
			For Up To 100, Add	1.67	
			For >100 To 250, Add	0.79	
			For >250 To 500, Add	0.34	
09 97 13 23-0048	SF		Brush Up To 14" Diameter Pipe 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	4.74	
			For Up To 100, Add	3.28	
			For >100 To 250, Add	1.54	
			For >250 To 500, Add	0.67	

09 97 13 23-0049 Touch-Up And Two 1.5 Mil Alkyd Finish Coats For Structural Steel (09 97 13 23-0022)

09 Finishes**09 90 Painting and Coating****09 97 Special Coatings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0050	SF	Spray Type 1 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.61	
		For Up To 100, Add	1.70	
		For >100 To 250, Add	0.81	
		For >250 To 500, Add	0.35	
09 97 13 23-0051	SF	Spray Type 2 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.14	
		For Up To 100, Add	1.37	
		For >100 To 250, Add	0.65	
		For >250 To 500, Add	0.28	
09 97 13 23-0052	SF	Spray Type 3 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	1.96	
		For Up To 100, Add	1.24	
		For >100 To 250, Add	0.59	
		For >250 To 500, Add	0.26	
09 97 13 23-0053	SF	Spray Up To 14" Diameter Pipe Touch-Up And Two 1.5 Mil Alkyd Finish Coats	3.24	
		For Up To 100, Add	2.16	
		For >100 To 250, Add	1.02	
		For >250 To 500, Add	0.44	
09 97 13 23-0054	SF	Spray Type 1 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.68	
		For Up To 100, Add	1.09	
		For >100 To 250, Add	0.52	
		For >250 To 500, Add	0.22	
09 97 13 23-0055	SF	Spray Type 2 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.37	
		For Up To 100, Add	0.88	
		For >100 To 250, Add	0.42	
		For >250 To 500, Add	0.18	
09 97 13 23-0056	SF	Spray Type 3 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.25	
		For Up To 100, Add	0.79	
		For >100 To 250, Add	0.38	
		For >250 To 500, Add	0.16	
09 97 13 23-0057	SF	Spray Up To 14" Diameter Pipe Touch-Up And One 1.5 Mil Alkyd Finish Coat	2.07	
		For Up To 100, Add	1.38	
		For >100 To 250, Add	0.65	
		For >250 To 500, Add	0.28	
09 97 13 23-0058	SF	Brush Type 1 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	3.69	
		For Up To 100, Add	2.51	
		For >100 To 250, Add	1.18	
		For >250 To 500, Add	0.51	
09 97 13 23-0059	SF	Brush Type 2 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.99	
		For Up To 100, Add	2.01	
		For >100 To 250, Add	0.95	
		For >250 To 500, Add	0.41	
09 97 13 23-0060	SF	Brush Type 3 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.73	
		For Up To 100, Add	1.81	
		For >100 To 250, Add	0.86	
		For >250 To 500, Add	0.37	
09 97 13 23-0061	SF	Brush Up To 14" Diameter Pipe Touch-Up And Two 1.5 Mil Alkyd Finish Coats	4.62	
		For Up To 100, Add	3.20	
		For >100 To 250, Add	1.50	
		For >250 To 500, Add	0.65	
09 97 13 23-0062	SF	Brush Type 1 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat	2.36	
		For Up To 100, Add	1.60	
		For >100 To 250, Add	0.76	
		For >250 To 500, Add	0.33	
09 97 13 23-0063	SF	Brush Type 2 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.92	
		For Up To 100, Add	1.29	
		For >100 To 250, Add	0.61	
		For >250 To 500, Add	0.26	
09 97 13 23-0064	SF	Brush Type 3 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.75	
		For Up To 100, Add	1.16	
		For >100 To 250, Add	0.55	
		For >250 To 500, Add	0.24	
09 97 13 23-0065	SF	Brush Up To 14" Diameter Pipe Touch-Up And One 1.5 Mil Alkyd Finish Coat	2.95	
		For Up To 100, Add	2.04	
		For >100 To 250, Add	0.96	
		For >250 To 500, Add	0.41	
09 97 13 23-0066		2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats For Structural Steel (09 97 13 23-0022)		
09 97 13 23-0067	SF	Spray Type 1 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	4.33	
		For Up To 100, Add	2.53	
		For >100 To 250, Add	1.22	
		For >250 To 500, Add	0.53	
09 97 13 23-0068	SF	Spray Type 2 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	3.18	
		For Up To 100, Add	1.73	
		For >100 To 250, Add	0.84	
		For >250 To 500, Add	0.37	
09 97 13 23-0069	SF	Spray Type 3 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	2.84	
		For Up To 100, Add	1.48	
		For >100 To 250, Add	0.72	
		For >250 To 500, Add	0.32	
09 97 13 23-0070	SF	Spray Up To 14" Diameter Pipe 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	4.90	
		For Up To 100, Add	2.93	
		For >100 To 250, Add	1.41	
		For >250 To 500, Add	0.61	



		Finishes	09	
		Painting and Coating	09 90	
		Special Coatings	09 97	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0071	SF		Spray Type 1 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	3.03	
			For Up To 100, Add	1.77	
			For >100 To 250, Add	0.65	
			For >250 To 500, Add	0.37	
09 97 13 23-0072	SF		Spray Type 2 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	2.23	
			For Up To 100, Add	1.22	
			For >100 To 250, Add	0.59	
			For >250 To 500, Add	0.26	
09 97 13 23-0073	SF		Spray Type 3 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	1.98	
			For Up To 100, Add	1.03	
			For >100 To 250, Add	0.50	
			For >250 To 500, Add	0.22	
09 97 13 23-0074	SF		Spray Up To 14" Diameter Pipe Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	3.43	
			For Up To 100, Add	2.05	
			For >100 To 250, Add	0.98	
			For >250 To 500, Add	0.43	
09 97 13 23-0075			2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats For Structural Steel (09 97 13 23-0022)		
09 97 13 23-0076	SF		Spray Type 1 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	4.67	
			For Up To 100, Add	2.58	
			For >100 To 250, Add	1.25	
			For >250 To 500, Add	0.55	
09 97 13 23-0077	SF		Spray Type 2 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	3.49	
			For Up To 100, Add	1.78	
			For >100 To 250, Add	0.87	
			For >250 To 500, Add	0.38	
09 97 13 23-0078	SF		Spray Type 3 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	3.15	
			For Up To 100, Add	1.52	
			For >100 To 250, Add	0.75	
			For >250 To 500, Add	0.33	
09 97 13 23-0079	SF		Spray Up To 14" Diameter Pipe 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	5.25	
			For Up To 100, Add	2.98	
			For >100 To 250, Add	1.44	
			For >250 To 500, Add	0.63	
09 97 13 23-0080	SF		Spray Type 1 Structural Steel Two 6 Mil High Build Epoxy Finish Coats	3.84	
			For Up To 100, Add	2.12	
			For >100 To 250, Add	1.03	
			For >250 To 500, Add	0.45	
09 97 13 23-0081	SF		Spray Type 2 Structural Steel Two 6 Mil High Build Epoxy Finish Coats	2.87	
			For Up To 100, Add	1.46	
			For >100 To 250, Add	0.72	
			For >250 To 500, Add	0.32	
09 97 13 23-0082	SF		Spray Type 3 Structural Steel Two 6 Mil High Build Epoxy Finish Coats	2.58	
			For Up To 100, Add	1.25	
			For >100 To 250, Add	0.62	
			For >250 To 500, Add	0.27	
09 97 13 23-0083	SF		Spray Up To 14" Diameter Pipe Two 6 Mil High Build Epoxy Finish Coats	4.31	
			For Up To 100, Add	2.45	
			For >100 To 250, Add	1.18	
			For >250 To 500, Add	0.52	
09 97 13 23-0084			1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats For Structural Steel (09 97 13 23-0022)		
09 97 13 23-0085	SF		Spray Type 1 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	9.75	
			For Up To 100, Add	5.54	
			For >100 To 250, Add	2.67	
			For >250 To 500, Add	1.17	
09 97 13 23-0086	SF		Spray Type 2 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	7.44	
			For Up To 100, Add	3.99	
			For >100 To 250, Add	1.94	
			For >250 To 500, Add	0.85	
09 97 13 23-0087	SF		Spray Type 3 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	7.18	
			For Up To 100, Add	3.80	
			For >100 To 250, Add	1.85	
			For >250 To 500, Add	0.81	
09 97 13 23-0088	SF		Spray Up To 14" Diameter Pipe 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	11.29	
			For Up To 100, Add	6.66	
			For >100 To 250, Add	3.20	
			For >250 To 500, Add	1.39	
09 97 13 23-0089			1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats For Structural Steel (09 97 13 23-0022)		
09 97 13 23-0090	SF		Spray Type 1 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	5.19	
			For Up To 100, Add	2.72	
			For >100 To 250, Add	1.33	
			For >250 To 500, Add	0.58	
09 97 13 23-0091	SF		Spray Type 2 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	4.12	
			For Up To 100, Add	1.93	
			For >100 To 250, Add	0.96	
			For >250 To 500, Add	0.42	

09 Finishes**09 90 Painting and Coating****09 97 Special Coatings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0092	SF		Spray Type 3 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	3.95	
			For Up To 100, Add	1.80	
			For >100 To 250, Add	0.90	
			For >250 To 500, Add	0.40	
09 97 13 23-0093	SF		Spray Up To 14" Diameter Pipe 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	5.86	
			For Up To 100, Add	3.18	
			For >100 To 250, Add	1.55	
			For >250 To 500, Add	0.68	
09 97 13 23-0094	SF		Spray Type 1 Structural Steel Two 4 Mil High Build Vinyl Finish Coats.....	4.08	
			For Up To 100, Add	2.14	
			For >100 To 250, Add	1.04	
			For >250 To 500, Add	0.46	
09 97 13 23-0095	SF		Spray Type 2 Structural Steel Two 4 Mil High Build Vinyl Finish Coats.....	3.25	
			For Up To 100, Add	1.52	
			For >100 To 250, Add	0.76	
			For >250 To 500, Add	0.33	
09 97 13 23-0096	SF		Spray Type 3 Structural Steel Two 4 Mil High Build Vinyl Finish Coats.....	3.11	
			For Up To 100, Add	1.41	
			For >100 To 250, Add	0.71	
			For >250 To 500, Add	0.31	
09 97 13 23-0097	SF		Spray Up To 14" Diameter Pipe Two 4 Mil High Build Vinyl Finish Coats.....	4.63	
			For Up To 100, Add	2.51	
			For >100 To 250, Add	1.22	
			For >250 To 500, Add	0.53	
09 97 13 23-0098			Two 8 Mil Coal Tar Epoxy Coats For Structural Steel (09 97 13 23-0022)		
09 97 13 23-0099	SF		Spray Type 1 Structural Steel Two 8 Mil Coal Tar Epoxy Coats.....	4.34	
			For Up To 100, Add	2.59	
			For >100 To 250, Add	1.24	
			For >250 To 500, Add	0.54	
09 97 13 23-0100	SF		Spray Type 2 Structural Steel Two 8 Mil Coal Tar Epoxy Coats.....	3.53	
			For Up To 100, Add	2.04	
			For >100 To 250, Add	0.98	
			For >250 To 500, Add	0.43	
09 97 13 23-0101	SF		Spray Type 3 Structural Steel Two 8 Mil Coal Tar Epoxy Coats.....	3.28	
			For Up To 100, Add	1.85	
			For >100 To 250, Add	0.90	
			For >250 To 500, Add	0.39	
09 97 13 23-0102	SF		Spray Up To 14" Diameter Pipe Two 8 Mil Coal Tar Epoxy Coats.....	5.33	
			For Up To 100, Add	3.31	
			For >100 To 250, Add	1.58	
			For >250 To 500, Add	0.68	
09 97 13 23-0103			One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat For Structural Steel (09 97 13 23-0022)		
09 97 13 23-0104	SF		Spray Type 1 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	4.15	
			For Up To 100, Add	2.61	
			For >100 To 250, Add	1.24	
			For >250 To 500, Add	0.54	
09 97 13 23-0105	SF		Spray Type 2 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	2.97	
			For Up To 100, Add	1.75	
			For >100 To 250, Add	0.84	
			For >250 To 500, Add	0.37	
09 97 13 23-0106	SF		Spray Type 3 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	2.54	
			For Up To 100, Add	1.43	
			For >100 To 250, Add	0.69	
			For >250 To 500, Add	0.30	
09 97 13 23-0107	SF		Spray Up To 14" Diameter Pipe One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat	4.74	
			For Up To 100, Add	3.02	
			For >100 To 250, Add	1.43	
			For >250 To 500, Add	0.62	
09 97 13 23-0108			One 3 Mil High Zinc Silicate Coat For Structural Steel (09 97 13 23-0022)		
09 97 13 23-0109	SF		Spray Type 1 Structural Steel One 3 Mil High Zinc Silicate Coat.....	2.28	
			For Up To 100, Add	1.18	
			For >100 To 250, Add	0.58	
			For >250 To 500, Add	0.25	
09 97 13 23-0110	SF		Spray Type 2 Structural Steel One 3 Mil High Zinc Silicate Coat.....	1.67	
			For Up To 100, Add	0.77	
			For >100 To 250, Add	0.38	
			For >250 To 500, Add	0.17	
09 97 13 23-0111	SF		Spray Type 3 Structural Steel One 3 Mil High Zinc Silicate Coat.....	1.59	
			For Up To 100, Add	0.71	
			For >100 To 250, Add	0.36	
			For >250 To 500, Add	0.16	



			Finishes	09	
			Painting and Coating	09 90	
			Special Coatings	09 97	

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
09 97 13 23-0112	SF	Spray Up To 14" Diameter Pipe One 3 Mil High Zinc Silicate Coat	2.39	
		For Up To 100, Add	1.25	
		For >100 To 250, Add	0.61	
		For >250 To 500, Add	0.27	
09 97 13 23-0113 Two 1.5 Mil Vinyl Enamel Finish Coats For Structural Steel (09 97 13 23-0022)				
Note: Installed over existing primer.				
09 97 13 23-0114	SF	Spray Type 1 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats	3.46	
		For Up To 100, Add	1.98	
		For >100 To 250, Add	0.96	
		For >250 To 500, Add	0.42	
09 97 13 23-0115	SF	Spray Type 2 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats	2.84	
		For Up To 100, Add	1.57	
		For >100 To 250, Add	0.76	
		For >250 To 500, Add	0.33	
09 97 13 23-0116	SF	Spray Type 3 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats	2.50	
		For Up To 100, Add	1.32	
		For >100 To 250, Add	0.64	
		For >250 To 500, Add	0.28	
09 97 13 23-0117	SF	Spray Up To 14" Diameter Pipe Two 1.5 Mil Vinyl Enamel Finish Coats.....	4.01	
		For Up To 100, Add	2.38	
		For >100 To 250, Add	1.14	
		For >250 To 500, Add	0.50	
09 97 13 24 Steel Water Storage Tank Painting (09 97 13)				
09 97 13 24-0001		Surface Preparation For Tanks (09 97 13 24)		
Note: Small pressure vessels and tanks - up to 12' diameter, large pressure vessels and tanks - over 12' diameter, tank interiors - over 6' diameter.				
09 97 13 24-0002		SSPC SP2 Or 3 Hand Or Power Tool Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		
09 97 13 24-0003	SF	Small Vessel/Tank SP2/3 Hand Or Power Tool Cleaning Surface Preparation	1.67	
		For Up To 100, Add	1.25	
		For >100 To 250, Add	0.58	
		For >250 To 500, Add	0.25	
09 97 13 24-0004	SF	Large Vessel/Tank SP2/3 Hand Or Power Tool Cleaning Surface Preparation.....	1.48	
		For Up To 100, Add	1.11	
		For >100 To 250, Add	0.52	
		For >250 To 500, Add	0.22	
09 97 13 24-0005	SF	Vessel/Tank Interior SP2/3 Hand Or Power Tool Cleaning Surface Preparation.....	2.09	
		For Up To 100, Add	1.57	
		For >100 To 250, Add	0.73	
		For >250 To 500, Add	0.31	
09 97 13 24-0006		SSPC SP7 Brush Off Blast Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		
09 97 13 24-0007	SF	Small Vessel/Tank SP7 Brush Off Blast Cleaning Surface Preparation	0.93	
		For Up To 100, Add	0.66	
		For >100 To 250, Add	0.31	
		For >250 To 500, Add	0.13	
09 97 13 24-0008	SF	Large Vessel/Tank SP7 Brush Off Blast Cleaning Surface Preparation	0.75	
		For Up To 100, Add	0.53	
		For >100 To 250, Add	0.25	
		For >250 To 500, Add	0.11	
09 97 13 24-0009	SF	Vessel/Tank Interior SP7 Brush Off Blast Cleaning Surface Preparation	1.31	
		For Up To 100, Add	0.95	
		For >100 To 250, Add	0.45	
		For >250 To 500, Add	0.19	
09 97 13 24-0010		SSPC SP6 Commercial Blast Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		
09 97 13 24-0011	SF	Small Vessel/Tank SP6 Commercial Blast Cleaning Surface Preparation	2.29	
		For Up To 100, Add	1.63	
		For >100 To 250, Add	0.76	
		For >250 To 500, Add	0.33	
09 97 13 24-0012	SF	Large Vessel/Tank SP6 Commercial Blast Cleaning Surface Preparation	2.09	
		For Up To 100, Add	1.48	
		For >100 To 250, Add	0.69	
		For >250 To 500, Add	0.30	
09 97 13 24-0013	SF	Vessel/Tank Interior SP6 Commercial Blast Cleaning Surface Preparation	3.07	
		For Up To 100, Add	2.21	
		For >100 To 250, Add	1.04	
		For >250 To 500, Add	0.45	
09 97 13 24-0014		SSPC SP5 White Metal Blast Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		
09 97 13 24-0015	SF	Small Vessel/Tank SP5 White Metal Blast Cleaning Surface Preparation.....	4.14	
		For Up To 100, Add	2.96	
		For >100 To 250, Add	1.39	
		For >250 To 500, Add	0.60	

09 Finishes**09 90 Painting and Coating****09 97 Special Coatings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0016 SF Large Vessel/Tank SP5 White Metal Blast Cleaning Surface Preparation	3.94	
For Up To 100, Add	2.81	
For >100 To 250, Add	1.32	
For >250 To 500, Add	0.57	
09 97 13 24-0017 SF Vessel/Tank Interior SP5 White Metal Blast Cleaning Surface Preparation.....	5.78	
For Up To 100, Add	4.19	
For >100 To 250, Add	1.96	
For >250 To 500, Add	0.84	
09 97 13 24-0018 SSPC SP10 Near White Metal Blast Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		
09 97 13 24-0019 SF Small Vessel/Tank SP10 Near White Metal Blast Cleaning Surface Preparation	3.30	
For Up To 100, Add	2.36	
For >100 To 250, Add	1.11	
For >250 To 500, Add	0.48	
09 97 13 24-0020 SF Large Vessel/Tank SP10 Near White Metal Blast Cleaning Surface Preparation.....	3.30	
For Up To 100, Add	2.36	
For >100 To 250, Add	1.11	
For >250 To 500, Add	0.48	
09 97 13 24-0021 SF Vessel/Tank Interior SP10 Near White Metal Blast Cleaning Surface Preparation.....	4.87	
For Up To 100, Add	3.53	
For >100 To 250, Add	1.65	
For >250 To 500, Add	0.71	
09 97 13 24-0022 Protective Coatings For Tanks (09 97 13 24) Note: Small pressure vessels and tanks - up to 12' diameter, large pressure vessels and tanks - over 12' diameter, tank interiors - over 6' diameter.		
09 97 13 24-0023 1.5 Mil Prime Coat For Tanks (09 97 13 24-0022)		
09 97 13 24-0024 SF Spray Small Vessel/Tank 1.5 Mil Prime Coat	0.68	
For Up To 100, Add	0.42	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.09	
09 97 13 24-0025 SF Spray Large Vessel/Tank 1.5 Mil Prime Coat	0.55	
For Up To 100, Add	0.32	
For >100 To 250, Add	0.16	
For >250 To 500, Add	0.07	
09 97 13 24-0026 SF Spray Tank Interior 1.5 Mil Prime Coat.....	1.29	
For Up To 100, Add	0.88	
For >100 To 250, Add	0.41	
For >250 To 500, Add	0.18	
09 97 13 24-0027 SF Brush Small Vessel/Tank 1.5 Mil Prime Coat	0.93	
For Up To 100, Add	0.61	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.12	
09 97 13 24-0028 SF Brush Large Vessel/Tank 1.5 Mil Prime Coat	0.75	
For Up To 100, Add	0.47	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
09 97 13 24-0029 SF Brush Tank Interior 1.5 Mil Prime Coat.....	1.85	
For Up To 100, Add	1.30	
For >100 To 250, Add	0.61	
For >250 To 500, Add	0.26	
09 97 13 24-0030 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats For Tanks (09 97 13 24-0022)		
09 97 13 24-0031 SF Spray Small Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	2.00	
For Up To 100, Add	1.19	
For >100 To 250, Add	0.57	
For >250 To 500, Add	0.25	
09 97 13 24-0032 SF Spray Large Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	1.56	
For Up To 100, Add	0.86	
For >100 To 250, Add	0.42	
For >250 To 500, Add	0.18	
09 97 13 24-0033 SF Spray Tank Interior 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	3.65	
For Up To 100, Add	2.43	
For >100 To 250, Add	1.15	
For >250 To 500, Add	0.50	
09 97 13 24-0034 SF Spray Small Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	1.50	
For Up To 100, Add	0.89	
For >100 To 250, Add	0.43	
For >250 To 500, Add	0.19	
09 97 13 24-0035 SF Spray Large Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	1.18	
For Up To 100, Add	0.65	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.14	
09 97 13 24-0036 SF Spray Tank Interior 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	2.74	
For Up To 100, Add	1.82	
For >100 To 250, Add	0.86	
For >250 To 500, Add	0.37	



		Finishes	09	
		Painting and Coating	09 90	
		Special Coatings	09 97	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0037	SF		Brush Small Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	2.95	
			For Up To 100, Add	1.90	
			For >100 To 250, Add	0.90	
			For >250 To 500, Add	0.39	
09 97 13 24-0038	SF		Brush Large Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	2.23	
			For Up To 100, Add	1.36	
			For >100 To 250, Add	0.65	
			For >250 To 500, Add	0.28	
09 97 13 24-0039	SF		Brush Tank Interior 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	5.66	
			For Up To 100, Add	3.93	
			For >100 To 250, Add	1.85	
			For >250 To 500, Add	0.80	
09 97 13 24-0040	SF		Brush Small Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	2.21	
			For Up To 100, Add	1.42	
			For >100 To 250, Add	0.68	
			For >250 To 500, Add	0.29	
09 97 13 24-0041	SF		Brush Large Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	1.68	
			For Up To 100, Add	1.03	
			For >100 To 250, Add	0.49	
			For >250 To 500, Add	0.21	
09 97 13 24-0042	SF		Brush Tank Interior 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	4.25	
			For Up To 100, Add	2.95	
			For >100 To 250, Add	1.39	
			For >250 To 500, Add	0.60	
09 97 13 24-0043 Touch-Up And Two 1.5 Mil Alkyd Finish Coats For Tanks (09 97 13 24-0022)					
09 97 13 24-0044	SF		Spray Small Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	1.78	
			For Up To 100, Add	1.11	
			For >100 To 250, Add	0.53	
			For >250 To 500, Add	0.23	
09 97 13 24-0045	SF		Spray Large Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	1.52	
			For Up To 100, Add	0.91	
			For >100 To 250, Add	0.44	
			For >250 To 500, Add	0.19	
09 97 13 24-0046	SF		Spray Tank Interior Touch-Up And Two 1.5 Mil Alkyd Finish Coats	3.78	
			For Up To 100, Add	2.61	
			For >100 To 250, Add	1.23	
			For >250 To 500, Add	0.53	
09 97 13 24-0047	SF		Spray Small Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.13	
			For Up To 100, Add	0.70	
			For >100 To 250, Add	0.34	
			For >250 To 500, Add	0.15	
09 97 13 24-0048	SF		Spray Large Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat	0.96	
			For Up To 100, Add	0.58	
			For >100 To 250, Add	0.28	
			For >250 To 500, Add	0.12	
09 97 13 24-0049	SF		Spray Tank Interior Touch-Up And One 1.5 Mil Alkyd Finish Coats	2.41	
			For Up To 100, Add	1.66	
			For >100 To 250, Add	0.78	
			For >250 To 500, Add	0.34	
09 97 13 24-0050	SF		Brush Small Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	2.46	
			For Up To 100, Add	1.62	
			For >100 To 250, Add	0.77	
			For >250 To 500, Add	0.33	
09 97 13 24-0051	SF		Brush Large Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	2.08	
			For Up To 100, Add	1.33	
			For >100 To 250, Add	0.63	
			For >250 To 500, Add	0.27	
09 97 13 24-0052	SF		Brush Tank Interior Touch-Up And Two 1.5 Mil Alkyd Finish Coats	5.81	
			For Up To 100, Add	4.21	
			For >100 To 250, Add	1.97	
			For >250 To 500, Add	0.85	
09 97 13 24-0053	SF		Brush Small Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.58	
			For Up To 100, Add	1.04	
			For >100 To 250, Add	0.49	
			For >250 To 500, Add	0.21	
09 97 13 24-0054	SF		Brush Large Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.33	
			For Up To 100, Add	0.85	
			For >100 To 250, Add	0.41	
			For >250 To 500, Add	0.18	
09 97 13 24-0055	SF		Brush Tank Interior Touch-Up And One 1.5 Mil Alkyd Finish Coats	3.81	
			For Up To 100, Add	2.71	
			For >100 To 250, Add	1.27	
			For >250 To 500, Add	0.55	
09 97 13 24-0056 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats For Tanks (09 97 13 24-0022)					
09 97 13 24-0057	SF		Spray Small Vessel/Tank 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats.....	2.63	
			For Up To 100, Add	1.34	
			For >100 To 250, Add	0.66	
			For >250 To 500, Add	0.29	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0058	SF	Spray Large Vessel/Tank 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats.....	2.28	
		For Up To 100, Add	1.07	
		For >100 To 250, Add	0.53	
		For >250 To 500, Add	0.24	
09 97 13 24-0059	SF	Spray Small Vessel/Tank Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	1.84	
		For Up To 100, Add	0.94	
		For >100 To 250, Add	0.46	
		For >250 To 500, Add	0.20	
09 97 13 24-0060	SF	Spray Large Vessel/Tank Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	1.60	
		For Up To 100, Add	0.76	
		For >100 To 250, Add	0.38	
		For >250 To 500, Add	0.17	
09 97 13 24-0061 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats For Tanks (09 97 13 24-0022)				
09 97 13 24-0062	SF	Spray Small Vessel/Tank 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	2.93	
		For Up To 100, Add	1.38	
		For >100 To 250, Add	0.69	
		For >250 To 500, Add	0.30	
09 97 13 24-0063	SF	Spray Large Vessel/Tank 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	2.58	
		For Up To 100, Add	1.12	
		For >100 To 250, Add	0.56	
		For >250 To 500, Add	0.25	
09 97 13 24-0064	SF	Spray Small Vessel/Tank Two 6 Mil High Build Epoxy Finish Coats	2.39	
		For Up To 100, Add	1.13	
		For >100 To 250, Add	0.56	
		For >250 To 500, Add	0.25	
09 97 13 24-0065	SF	Spray Large Vessel/Tank Two 6 Mil High Build Epoxy Finish Coats	2.11	
		For Up To 100, Add	0.92	
		For >100 To 250, Add	0.46	
		For >250 To 500, Add	0.21	
09 97 13 24-0066 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats For Tanks (09 97 13 24-0022)				
09 97 13 24-0067	SF	Spray Small Vessel/Tank 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	6.92	
		For Up To 100, Add	3.65	
		For >100 To 250, Add	1.78	
		For >250 To 500, Add	0.78	
09 97 13 24-0068	SF	Spray Large Vessel/Tank 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	6.41	
		For Up To 100, Add	3.27	
		For >100 To 250, Add	1.60	
		For >250 To 500, Add	0.70	
09 97 13 24-0069	SF	Spray Tank Interior 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	10.41	
		For Up To 100, Add	6.27	
		For >100 To 250, Add	3.00	
		For >250 To 500, Add	1.30	
09 97 13 24-0070 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats For Tanks (09 97 13 24-0022)				
09 97 13 24-0071	SF	Spray Small Vessel/Tank 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	3.67	
		For Up To 100, Add	1.72	
		For >100 To 250, Add	0.85	
		For >250 To 500, Add	0.38	
09 97 13 24-0072	SF	Spray Large Vessel/Tank 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	3.29	
		For Up To 100, Add	1.44	
		For >100 To 250, Add	0.72	
		For >250 To 500, Add	0.32	
09 97 13 24-0073	SF	Spray Tank Interior 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	5.38	
		For Up To 100, Add	3.00	
		For >100 To 250, Add	1.45	
		For >250 To 500, Add	0.64	
09 97 13 24-0074	SF	Spray Small Vessel/Tank Two 4 Mil High Build Vinyl Finish Coats.....	2.90	
		For Up To 100, Add	1.36	
		For >100 To 250, Add	0.68	
		For >250 To 500, Add	0.30	
09 97 13 24-0075	SF	Spray Large Vessel/Tank Two 4 Mil High Build Vinyl Finish Coats	2.60	
		For Up To 100, Add	1.13	
		For >100 To 250, Add	0.57	
		For >250 To 500, Add	0.25	
09 97 13 24-0076	SF	Spray Tank Interior Two 4 Mil High Build Vinyl Finish Coats	4.26	
		For Up To 100, Add	2.38	
		For >100 To 250, Add	1.15	
		For >250 To 500, Add	0.50	
09 97 13 24-0077 Two 8 Mil Coal Tar Epoxy Coats For Tanks (09 97 13 24-0022)				
09 97 13 24-0078	SF	Spray Small Vessel/Tank Two 8 Mil Coal Tar Epoxy Coats.....	3.25	
		For Up To 100, Add	1.85	
		For >100 To 250, Add	0.89	
		For >250 To 500, Add	0.39	



		Finishes	09	
		Painting and Coating	09 90	
		Special Coatings	09 97	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0079	SF		Spray Large Vessel/Tank Two 8 Mil Coal Tar Epoxy Coats	2.73	
			For Up To 100, Add	1.46	
			For >100 To 250, Add	0.71	
			For >250 To 500, Add	0.31	
09 97 13 24-0080	SF		Spray Tank Interior Two 8 Mil Coal Tar Epoxy Coats	4.11	
			For Up To 100, Add	2.49	
			For >100 To 250, Add	1.19	
			For >250 To 500, Add	0.52	
09 97 13 24-0081 One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat For Tanks (09 97 13 24-0022)					
09 97 13 24-0082	SF		Spray Small Vessel/Tank One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat	2.25	
			For Up To 100, Add	1.23	
			For >100 To 250, Add	0.60	
			For >250 To 500, Add	0.26	
09 97 13 24-0083	SF		Spray Large Vessel/Tank One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat	2.07	
			For Up To 100, Add	1.09	
			For >100 To 250, Add	0.53	
			For >250 To 500, Add	0.23	
09 97 13 24-0084	SF		Spray Tank Interior One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat	3.39	
			For Up To 100, Add	2.08	
			For >100 To 250, Add	0.99	
			For >250 To 500, Add	0.43	
09 97 13 24-0085 Two 6 Mil High Build Epoxy Finish Coats For Tanks Interior (09 97 13 24-0022)					
09 97 13 24-0086	SF		Spray Small Tank Interior Two 6 Mil High Build Epoxy Finish Coats	4.93	
			For Up To 100, Add	2.83	
			For >100 To 250, Add	1.37	
			For >250 To 500, Add	0.60	
09 97 13 24-0087	SF		Spray Large Tank Interior Two 6 Mil High Build Epoxy Finish Coats	3.06	
			For Up To 100, Add	1.51	
			For >100 To 250, Add	0.74	
			For >250 To 500, Add	0.33	
09 97 13 24-0088 One 3 Mil High Zinc Silicate Coat For Tanks (09 97 13 24-0022)					
09 97 13 24-0089	SF		Spray Small Vessel/Tank One 3 Mil High Zinc Silicate Coat	1.47	
			For Up To 100, Add	0.63	
			For >100 To 250, Add	0.32	
			For >250 To 500, Add	0.14	
09 97 13 24-0090	SF		Spray Large Vessel/Tank One 3 Mil High Zinc Silicate Coat	1.44	
			For Up To 100, Add	0.61	
			For >100 To 250, Add	0.31	
			For >250 To 500, Add	0.14	
09 97 13 24-0091	SF		Spray Tank Interior One 3 Mil High Zinc Silicate Coat	2.26	
			For Up To 100, Add	1.23	
			For >100 To 250, Add	0.60	
			For >250 To 500, Add	0.26	
09 97 13 24-0092 Two 1.5 Mil Vinyl Enamel Finish Coats For Tanks (09 97 13 24-0022) Note: Installed over existing primer.					
09 97 13 24-0093	SF		Spray Small Vessel/Tank Two 1.5 Mil Vinyl Enamel Finish Coats	2.38	
			For Up To 100, Add	1.25	
			For >100 To 250, Add	0.61	
			For >250 To 500, Add	0.27	
09 97 13 24-0094	SF		Spray Large Vessel/Tank Two 1.5 Mil Vinyl Enamel Finish Coats	2.12	
			For Up To 100, Add	1.05	
			For >100 To 250, Add	0.52	
			For >250 To 500, Add	0.23	
09 97 13 24-0095	SF		Spray Tank Interior Two 1.5 Mil Vinyl Enamel Finish Coats	3.25	
			For Up To 100, Add	1.90	
			For >100 To 250, Add	0.91	
			For >250 To 500, Add	0.40	
09 97 13 24-0096 One 1 Mil Primer And 95 Mil Hot Coal Tar Enamel Finish Coat For Tanks (09 97 13 24-0022)					
09 97 13 24-0097	SF		Spray/Mop Large Vessel/Tank One 1 Mil Primer And 95 Mil Hot Coal Tar Enamel Finish Coat	8.46	
			For Up To 100, Add	5.24	
			For >100 To 250, Add	2.50	
			For >250 To 500, Add	1.09	
09 97 26 Cementitious Coatings (09 97)					
09 97 26 13 Interior Cementitious Coatings (09 97 26)					
09 97 26 13-0001 Ceramic-Like Glazed Coating (09 97 26 13)					
09 97 26 13-0002 Ceramic-Like Glazed Coating, Cementitious (09 97 26 13-0001)					

09	09	Finishes
	09 90	Painting and Coating
	09 97	Special Coatings



MINOR				TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION				UNIT COST		UNIT COST
09 97 26 13-0003	SF	Ceramic-like Glazed Coating, - Cementitious				3.28
09 97 26 13-0004		Ceramic-Like Glazed Coating, Resin Base (09 97 26 13-0001)				
09 97 26 13-0005	SF	Ceramic-like Glazed Coating - Resin				2.72
09 97 63		Special Coatings and Protection Systems (09 97)				
09 97 63 00-0001		Acrylic Glazed Coating (09 97 63)				
09 97 63 00-0002	SF	Acrylic Glazed Coating.....				2.10

END OF SECTION 09



Specialties			10
Information Specialties			10 10
Signage			10 14

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

10 Specialties

10 10 Information Specialties ⁽¹⁰⁾

10 14 Signage ^(10 10)

Note: Where required, signage excludes electrical connection, disconnect, or terminations unless title states otherwise. See CSI section 26 05 19 16-0011 for electrical connection wiring.

10 14 53 Traffic Signage ^(10 14)

10 14 53 11 Traffic Signage ^(10 14 53)

10 14 53 11-0001 Traffic Signs ^(10 14 53 11)

10 14 53 11-0002 Reflectorized Stop Signs And Other Traffic Signs ^(10 14 53 11-0001)

Note: Excludes posts.

10 14 53 11-0003 Aluminum Engineer Grade Stop Signs ^(10 14 53 11-0002)

10 14 53 11-0004	EA	18" x 18" Aluminum Engineer Grade Stop Sign	68.29	19.30
		For Hi-Intensity Grade, Add	8.91	
		For Diamond Grade, Add	16.92	
10 14 53 11-0005	EA	18" x 24" Aluminum Engineer Grade Stop Sign	79.57	20.41
		For Hi-Intensity Grade, Add	11.65	
		For Diamond Grade, Add	22.13	
10 14 53 11-0006	EA	24" x 24" Aluminum Engineer Grade Stop Sign	86.29	21.45
		For Hi-Intensity Grade, Add	17.79	
		For Diamond Grade, Add	28.20	
10 14 53 11-0007	EA	30" x 30" Aluminum Engineer Grade Stop Sign	100.61	22.56
		For Hi-Intensity Grade, Add	6.67	
		For Diamond Grade, Add	36.12	
10 14 53 11-0008	EA	36" x 36" Aluminum Engineer Grade Stop Sign	136.25	23.59
		For Hi-Intensity Grade, Add	19.60	
		For Diamond Grade, Add	61.46	

10 14 53 11-0009 Other Reflectorized Traffic Signs ^(10 14 53 11-0002)

Note: Other traffic signs includes reserve, handicap, visitor, no parking, property, speed limit, tow away, ADA, parking time limit, parking exclusive area, school, traffic/caution, etc. Excludes posts.

10 14 53 11-0010 Aluminum Engineer Grade Traffic Signs ^(10 14 53 11-0009)

10 14 53 11-0011	EA	6" x 12" Aluminum Engineer Grade Traffic Sign	41.67	17.15
		For Hi-Intensity Grade, Add	2.21	
10 14 53 11-0012	EA	6" x 18" Aluminum Engineer Grade Traffic Sign	45.35	17.15
		For Hi-Intensity Grade, Add	3.31	
10 14 53 11-0013	EA	9" x 12" Aluminum Engineer Grade Traffic Sign	45.35	17.15
		For Hi-Intensity Grade, Add	3.31	
10 14 53 11-0014	EA	9" x 15" Aluminum Engineer Grade Traffic Sign	48.11	17.15
		For Hi-Intensity Grade, Add	4.14	
10 14 53 11-0015	EA	9" x 18" Aluminum Engineer Grade Traffic Sign	50.87	17.15
		For Hi-Intensity Grade, Add	4.97	
10 14 53 11-0016	EA	9" x 24" Aluminum Engineer Grade Traffic Sign	58.52	18.23
		For Hi-Intensity Grade, Add	6.62	
10 14 53 11-0017	EA	9" x 48" Aluminum Engineer Grade Traffic Sign	80.59	18.23
		For Hi-Intensity Grade, Add	13.24	
10 14 53 11-0018	EA	12" x 12" Aluminum Engineer Grade Traffic Sign	49.03	17.15
		For Hi-Intensity Grade, Add	4.41	
10 14 53 11-0019	EA	12" x 18" Aluminum Engineer Grade Traffic Sign	58.52	18.23
		For Hi-Intensity Grade, Add	6.62	
10 14 53 11-0020	EA	12" x 24" Aluminum Engineer Grade Traffic Sign	65.88	18.23
		For Hi-Intensity Grade, Add	8.83	
10 14 53 11-0021	EA	12" x 30" Aluminum Engineer Grade Traffic Sign	73.23	18.23
		For Hi-Intensity Grade, Add	11.03	
10 14 53 11-0022	EA	12" x 36" Aluminum Engineer Grade Traffic Sign	80.59	18.23
		For Hi-Intensity Grade, Add	13.24	
10 14 53 11-0023	EA	18" x 18" Aluminum Engineer Grade Traffic Sign	69.56	18.23
		For Hi-Intensity Grade, Add	9.93	
10 14 53 11-0024	EA	18" x 24" Aluminum Engineer Grade Traffic Sign	80.59	18.23
		For Hi-Intensity Grade, Add	13.24	
10 14 53 11-0025	EA	18" x 30" Aluminum Engineer Grade Traffic Sign	93.76	19.30
		For Hi-Intensity Grade, Add	16.55	
10 14 53 11-0026	EA	18" x 36" Aluminum Engineer Grade Traffic Sign	104.79	19.30
		For Hi-Intensity Grade, Add	19.86	
10 14 53 11-0027	EA	18" x 48" Aluminum Engineer Grade Traffic Sign	135.43	23.59
		For Hi-Intensity Grade, Add	26.48	
10 14 53 11-0028	EA	18" x 54" Aluminum Engineer Grade Traffic Sign	146.47	23.59
		For Hi-Intensity Grade, Add	29.79	
10 14 53 11-0029	EA	24" x 24" Aluminum Engineer Grade Traffic Sign	97.44	19.30
		For Hi-Intensity Grade, Add	17.65	
10 14 53 11-0030	EA	24" x 30" Aluminum Engineer Grade Traffic Sign	112.15	19.30
		For Hi-Intensity Grade, Add	22.07	
10 14 53 11-0031	EA	24" x 36" Aluminum Engineer Grade Traffic Sign	126.85	19.30
		For Hi-Intensity Grade, Add	26.48	

10 Specialties**10 10 Information Specialties****10 14 Signage**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0032	EA	24" x 42" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	150.14 30.89	23.59
10 14 53 11-0033	EA	24" x 48" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	164.85 35.30	23.59
10 14 53 11-0034	EA	24" x 54" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	179.56 39.71	23.59
10 14 53 11-0035	EA	24" x 60" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	194.27 44.13	23.59
10 14 53 11-0036	EA	30" x 30" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	130.53 27.58	19.30
10 14 53 11-0037	EA	30" x 36" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	157.50 33.10	23.59
10 14 53 11-0038	EA	30" x 42" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	175.88 38.61	23.59
10 14 53 11-0039	EA	30" x 48" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	202.85 44.13	27.88
10 14 53 11-0040	EA	30" x 60" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	248.20 55.16	32.17
10 14 53 11-0041	EA	36" x 36" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	179.56 39.71	23.59
10 14 53 11-0042	EA	36" x 42" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	210.21 46.34	27.88
10 14 53 11-0043	EA	36" x 48" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	240.85 52.95	32.17
10 14 53 11-0044	EA	36" x 54" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	262.91 59.57	32.17
10 14 53 11-0045	EA	36" x 60" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	293.56 66.19	36.46
10 14 53 11-0046	EA	36" x 73" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	349.94 80.53	40.75
10 14 53 11-0047	EA	36" x 78" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	368.33 86.05	40.75
10 14 53 11-0048	EA	36" x 108" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	491.52 119.15	47.18
10 14 53 11-0049	EA	42" x 42" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	244.53 54.06	32.17
10 14 53 11-0050	EA	48" x 48" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	308.27 70.61	36.46
10 14 53 11-0051	EA	48" x 54" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	346.26 79.43	40.75
10 14 53 11-0052	EA	48" x 60" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	375.68 88.25	40.75
10 14 53 11-0053	EA	48" x 66" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	417.97 97.08	47.18
10 14 53 11-0054	EA	48" x 72" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	447.39 105.91	47.18
10 14 53 11-0055	EA	48" x 84" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	514.81 123.56	51.47
10 14 53 11-0056	EA	48" x 96" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	573.64 141.21	51.47
10 14 53 11-0057	EA	48" x 102" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	603.06 150.03	51.47
10 14 53 11-0058	EA	48" x 108" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	636.76 158.86	53.62
10 14 53 11-0059	EA	60" x 72" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	544.22 132.38	51.47
10 14 53 11-0060	EA	72" x 144" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	1,196.32 317.72	68.63
10 14 53 11-0061	EA	78" x 96" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	872.10 229.46	53.62
10 14 53 11-0062		Non-Reflectorized Traffic Signs (10 14 53 11-0001) Note: Includes reserved parking, handicap parking, visitor parking, no parking, tow away zones, etc. Excludes posts.		
10 14 53 11-0063		Steel Non-Reflectorized Traffic Signs (10 14 53 11-0062)		
10 14 53 11-0064	EA	6" x 12" Steel Non Reflectorized Traffic Sign	40.68	17.15
10 14 53 11-0065	EA	6" x 18" Steel Non Reflectorized Traffic Sign	43.86	17.15
10 14 53 11-0066	EA	9" x 12" Steel Non Reflectorized Traffic Sign	43.86	17.15
10 14 53 11-0067	EA	9" x 15" Steel Non Reflectorized Traffic Sign	46.24	17.15
10 14 53 11-0068	EA	9" x 18" Steel Non Reflectorized Traffic Sign	48.63	17.15
10 14 53 11-0069	EA	9" x 24" Steel Non Reflectorized Traffic Sign	55.53	18.23
10 14 53 11-0070	EA	9" x 48" Steel Non Reflectorized Traffic Sign	74.61	18.23
10 14 53 11-0071	EA	12" x 12" Steel Non Reflectorized Traffic Sign	47.04	17.15
10 14 53 11-0072	EA	12" x 18" Steel Non Reflectorized Traffic Sign	55.53	18.23
10 14 53 11-0073	EA	12" x 24" Steel Non Reflectorized Traffic Sign	61.89	18.23
10 14 53 11-0074	EA	12" x 30" Steel Non Reflectorized Traffic Sign	68.25	18.23
10 14 53 11-0075	EA	12" x 36" Steel Non Reflectorized Traffic Sign	74.61	18.23
10 14 53 11-0076	EA	18" x 18" Steel Non Reflectorized Traffic Sign	65.07	18.23
10 14 53 11-0077	EA	18" x 24" Steel Non Reflectorized Traffic Sign	74.61	18.23
10 14 53 11-0078	EA	18" x 30" Steel Non Reflectorized Traffic Sign	86.28	19.30
10 14 53 11-0079	EA	18" x 36" Steel Non Reflectorized Traffic Sign	95.82	19.30
10 14 53 11-0080	EA	18" x 48" Steel Non Reflectorized Traffic Sign	123.48	23.59



		Specialties	10
		Information Specialties	10 10
		Signage	10 14

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
10 14 53 11-0081	EA 18" x 54" Steel Non Reflectorized Traffic Sign.....	133.01	23.59		
10 14 53 11-0082	EA 24" x 24" Steel Non Reflectorized Traffic Sign.....	89.46	19.30		
10 14 53 11-0083	EA 24" x 30" Steel Non Reflectorized Traffic Sign.....	102.18	19.30		
10 14 53 11-0084	EA 24" x 36" Steel Non Reflectorized Traffic Sign.....	114.90	19.30		
10 14 53 11-0085	EA 24" x 42" Steel Non Reflectorized Traffic Sign.....	136.19	23.59		
10 14 53 11-0086	EA 24" x 48" Steel Non Reflectorized Traffic Sign.....	148.91	23.59		
10 14 53 11-0087	EA 24" x 54" Steel Non Reflectorized Traffic Sign.....	161.62	23.59		
10 14 53 11-0088	EA 24" x 60" Steel Non Reflectorized Traffic Sign.....	174.34	23.59		
10 14 53 11-0089	EA 30" x 30" Steel Non Reflectorized Traffic Sign.....	118.08	19.30		
10 14 53 11-0090	EA 30" x 36" Steel Non Reflectorized Traffic Sign.....	142.55	23.59		
10 14 53 11-0091	EA 30" x 42" Steel Non Reflectorized Traffic Sign.....	158.44	23.59		
10 14 53 11-0092	EA 30" x 48" Steel Non Reflectorized Traffic Sign.....	182.92	27.88		
10 14 53 11-0093	EA 30" x 60" Steel Non Reflectorized Traffic Sign.....	223.29	32.17		
10 14 53 11-0094	EA 36" x 36" Steel Non Reflectorized Traffic Sign.....	161.62	23.59		
10 14 53 11-0095	EA 36" x 42" Steel Non Reflectorized Traffic Sign.....	189.28	27.88		
10 14 53 11-0096	EA 36" x 48" Steel Non Reflectorized Traffic Sign.....	216.93	32.17		
10 14 53 11-0097	EA 36" x 54" Steel Non Reflectorized Traffic Sign.....	236.01	32.17		
10 14 53 11-0098	EA 36" x 60" Steel Non Reflectorized Traffic Sign.....	263.66	36.46		
10 14 53 11-0099	EA 36" x 73" Steel Non Reflectorized Traffic Sign.....	313.57	40.75		
10 14 53 11-0100	EA 36" x 78" Steel Non Reflectorized Traffic Sign.....	329.46	40.75		
10 14 53 11-0101	EA 36" x 108" Steel Non Reflectorized Traffic Sign.....	437.70	47.18		
10 14 53 11-0102	EA 42" x 42" Steel Non Reflectorized Traffic Sign.....	220.11	32.17		
10 14 53 11-0103	EA 48" x 48" Steel Non Reflectorized Traffic Sign.....	276.38	36.46		
10 14 53 11-0104	EA 48" x 54" Steel Non Reflectorized Traffic Sign.....	310.39	40.75		
10 14 53 11-0105	EA 48" x 60" Steel Non Reflectorized Traffic Sign.....	335.82	40.75		
10 14 53 11-0106	EA 48" x 66" Steel Non Reflectorized Traffic Sign.....	374.12	47.18		
10 14 53 11-0107	EA 48" x 72" Steel Non Reflectorized Traffic Sign.....	399.55	47.18		
10 14 53 11-0108	EA 48" x 84" Steel Non Reflectorized Traffic Sign.....	459.00	51.47		
10 14 53 11-0109	EA 48" x 96" Steel Non Reflectorized Traffic Sign.....	509.86	51.47		
10 14 53 11-0110	EA 48" x 102" Steel Non Reflectorized Traffic Sign.....	535.29	51.47		
10 14 53 11-0111	EA 48" x 108" Steel Non Reflectorized Traffic Sign.....	565.01	53.62		
10 14 53 11-0112	EA 60" x 72" Steel Non Reflectorized Traffic Sign.....	484.43	51.47		
10 14 53 11-0113	EA 72" x 144" Steel Non Reflectorized Traffic Sign.....	1,052.81	68.63		
10 14 53 11-0114	EA 78" x 96" Steel Non Reflectorized Traffic Sign.....	768.46	53.62		
10 14 53 11-0115	Aluminum Non-Reflectorized Traffic Signs (10 14 53 11-0062)				
10 14 53 11-0116	EA 6" x 12" Aluminum Non Reflectorized Traffic Sign.....	40.94	17.15		
10 14 53 11-0117	EA 6" x 18" Aluminum Non Reflectorized Traffic Sign.....	44.25	17.15		
10 14 53 11-0118	EA 9" x 12" Aluminum Non Reflectorized Traffic Sign.....	44.25	17.15		
10 14 53 11-0119	EA 9" x 15" Aluminum Non Reflectorized Traffic Sign.....	46.73	17.15		
10 14 53 11-0120	EA 9" x 18" Aluminum Non Reflectorized Traffic Sign.....	49.21	17.15		
10 14 53 11-0121	EA 9" x 24" Aluminum Non Reflectorized Traffic Sign.....	56.31	18.23		
10 14 53 11-0122	EA 9" x 48" Aluminum Non Reflectorized Traffic Sign.....	76.16	18.23		
10 14 53 11-0123	EA 12" x 12" Aluminum Non Reflectorized Traffic Sign.....	47.55	17.15		
10 14 53 11-0124	EA 12" x 18" Aluminum Non Reflectorized Traffic Sign.....	56.31	18.23		
10 14 53 11-0125	EA 12" x 24" Aluminum Non Reflectorized Traffic Sign.....	62.93	18.23		
10 14 53 11-0126	EA 12" x 30" Aluminum Non Reflectorized Traffic Sign.....	69.55	18.23		
10 14 53 11-0127	EA 12" x 36" Aluminum Non Reflectorized Traffic Sign.....	76.16	18.23		
10 14 53 11-0128	EA 18" x 18" Aluminum Non Reflectorized Traffic Sign.....	66.24	18.23		
10 14 53 11-0129	EA 18" x 24" Aluminum Non Reflectorized Traffic Sign.....	76.16	18.23		
10 14 53 11-0130	EA 18" x 30" Aluminum Non Reflectorized Traffic Sign.....	88.23	19.30		
10 14 53 11-0131	EA 18" x 36" Aluminum Non Reflectorized Traffic Sign.....	98.15	19.30		
10 14 53 11-0132	EA 18" x 48" Aluminum Non Reflectorized Traffic Sign.....	126.59	23.59		
10 14 53 11-0133	EA 18" x 54" Aluminum Non Reflectorized Traffic Sign.....	136.51	23.59		
10 14 53 11-0134	EA 24" x 24" Aluminum Non Reflectorized Traffic Sign.....	91.54	19.30		
10 14 53 11-0135	EA 24" x 30" Aluminum Non Reflectorized Traffic Sign.....	104.77	19.30		
10 14 53 11-0136	EA 24" x 36" Aluminum Non Reflectorized Traffic Sign.....	118.01	19.30		
10 14 53 11-0137	EA 24" x 42" Aluminum Non Reflectorized Traffic Sign.....	139.82	23.59		
10 14 53 11-0138	EA 24" x 48" Aluminum Non Reflectorized Traffic Sign.....	153.05	23.59		
10 14 53 11-0139	EA 24" x 54" Aluminum Non Reflectorized Traffic Sign.....	166.29	23.59		
10 14 53 11-0140	EA 24" x 60" Aluminum Non Reflectorized Traffic Sign.....	179.52	23.59		
10 14 53 11-0141	EA 30" x 30" Aluminum Non Reflectorized Traffic Sign.....	121.31	19.30		
10 14 53 11-0142	EA 30" x 36" Aluminum Non Reflectorized Traffic Sign.....	146.44	23.59		
10 14 53 11-0143	EA 30" x 42" Aluminum Non Reflectorized Traffic Sign.....	162.98	23.59		
10 14 53 11-0144	EA 30" x 48" Aluminum Non Reflectorized Traffic Sign.....	188.10	27.88		
10 14 53 11-0145	EA 30" x 60" Aluminum Non Reflectorized Traffic Sign.....	229.77	32.17		
10 14 53 11-0146	EA 36" x 36" Aluminum Non Reflectorized Traffic Sign.....	166.29	23.59		
10 14 53 11-0147	EA 36" x 42" Aluminum Non Reflectorized Traffic Sign.....	194.72	27.88		
10 14 53 11-0148	EA 36" x 48" Aluminum Non Reflectorized Traffic Sign.....	223.15	32.17		
10 14 53 11-0149	EA 36" x 54" Aluminum Non Reflectorized Traffic Sign.....	243.00	32.17		
10 14 53 11-0150	EA 36" x 60" Aluminum Non Reflectorized Traffic Sign.....	271.43	36.46		
10 14 53 11-0151	EA 36" x 73" Aluminum Non Reflectorized Traffic Sign.....	323.02	40.75		
10 14 53 11-0152	EA 36" x 78" Aluminum Non Reflectorized Traffic Sign.....	339.57	40.75		
10 14 53 11-0153	EA 36" x 108" Aluminum Non Reflectorized Traffic Sign.....	451.69	47.18		
10 14 53 11-0154	EA 42" x 42" Aluminum Non Reflectorized Traffic Sign.....	226.46	32.17		
10 14 53 11-0155	EA 48" x 48" Aluminum Non Reflectorized Traffic Sign.....	284.67	36.46		
10 14 53 11-0156	EA 48" x 54" Aluminum Non Reflectorized Traffic Sign.....	319.72	40.75		
10 14 53 11-0157	EA 48" x 60" Aluminum Non Reflectorized Traffic Sign.....	346.18	40.75		
10 14 53 11-0158	EA 48" x 66" Aluminum Non Reflectorized Traffic Sign.....	385.52	47.18		
10 14 53 11-0159	EA 48" x 72" Aluminum Non Reflectorized Traffic Sign.....	411.99	47.18		

10 Specialties**10 10 Information Specialties****10 14 Signage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0160 EA 48" x 84" Aluminum Non Reflectorized Traffic Sign	473.51	51.47
10 14 53 11-0161 EA 48" x 96" Aluminum Non Reflectorized Traffic Sign	526.44	51.47
10 14 53 11-0162 EA 48" x 102" Aluminum Non Reflectorized Traffic Sign	552.91	51.47
10 14 53 11-0163 EA 48" x 108" Aluminum Non Reflectorized Traffic Sign	583.66	53.62
10 14 53 11-0164 EA 60" x 72" Aluminum Non Reflectorized Traffic Sign	499.98	51.47
10 14 53 11-0165 EA 72" x 144" Aluminum Non Reflectorized Traffic Sign	1,090.12	68.63
10 14 53 11-0166 EA 78" x 96" Aluminum Non Reflectorized Traffic Sign	795.41	53.62
10 14 53 11-0167 Aluminum Street Signs (10 14 53 11-0001) Note: Excludes posts.		
10 14 53 11-0168 Aluminum Engineer Grade Street Signs (10 14 53 11-0167)		
10 14 53 11-0169 EA 6" High, Aluminum Engineer Grade Street Sign	77.97	8.58
10 14 53 11-0170 EA 8" High, Aluminum Engineer Grade Street Sign	88.71	8.58
10 14 53 11-0171 EA 9" High, Aluminum Engineer Grade Street Sign	96.70	8.58
10 14 53 11-0172 Street Sign Accessories (10 14 53 11-0167)		
10 14 53 11-0173 EA Single Bracket And Post Cap For Street Sign	23.21	4.29
10 14 53 11-0174 EA Double Bracket And Post Cap For Street Sign	23.21	4.29
10 14 53 11-0175 Sign Posts (10 14 53 11-0001) Note: Excludes sign. See CSI section 32 31 13 13-0001 for auguring of holes and backfill.		
10 14 53 11-0176 U-Channel Sign Posts (10 14 53 11-0175) Note: Excludes digging and concrete.		
10 14 53 11-0177 Baked Enamel U-Channel Sign Posts (10 14 53 11-0176)		
10 14 53 11-0178 EA 3' To 4' Baked Enamel U-Channel Sign Post Base	60.49	17.55
10 14 53 11-0179 EA 6' Baked Enamel U-Channel Sign Post	79.59	21.94
10 14 53 11-0180 EA 7' Baked Enamel U-Channel Sign Post	95.00	26.33
10 14 53 11-0181 EA 8' Baked Enamel U-Channel Sign Post	111.25	30.72
10 14 53 11-0182 EA 10' Baked Enamel U-Channel Sign Post	134.20	37.31
10 14 53 11-0183 EA 12' Baked Enamel U-Channel Sign Post	138.27	37.31
10 14 53 11-0184 Galvanized Steel U-Channel Sign Posts (10 14 53 11-0176)		
10 14 53 11-0185 EA 3' To 4' Galvanized Steel U-Channel Sign Post Base	65.73	17.55
10 14 53 11-0186 EA 6' Galvanized Steel U-Channel Sign Post	87.89	21.94
10 14 53 11-0187 EA 7' Galvanized Steel U-Channel Sign Post	113.78	26.33
10 14 53 11-0188 EA 8' Galvanized Steel U-Channel Sign Post	132.02	30.72
10 14 53 11-0189 EA 10' Galvanized Steel U-Channel Sign Post	149.31	37.31
10 14 53 11-0190 EA 12' Galvanized Steel U-Channel Sign Post	151.42	37.31
10 14 53 11-0191 Fiberglass Or Composite Plastic U-Channel Sign Posts (10 14 53 11-0176)		
10 14 53 11-0192 EA 3' To 4' Fiberglass Or Composite Plastic U-Channel Sign Post Base	59.26	17.55
10 14 53 11-0193 EA 6' Fiberglass Or Composite Plastic U-Channel Sign Post	76.90	21.94
10 14 53 11-0194 EA 7' Fiberglass Or Composite Plastic U-Channel Sign Post	91.76	26.33
10 14 53 11-0195 EA 8' Fiberglass Or Composite Plastic U-Channel Sign Post	107.39	30.72
10 14 53 11-0196 EA 10' Fiberglass Or Composite Plastic U-Channel Sign Post	127.20	37.31
10 14 53 11-0197 EA 12' Fiberglass Or Composite Plastic U-Channel Sign Post	134.12	37.31
10 14 53 11-0198 Tubular Sign Posts (10 14 53 11-0175) Note: Excludes digging and concrete.		
10 14 53 11-0199 2-3/8" Diameter, Galvanized Steel Tubular Sign Post (10 14 53 11-0198)		
10 14 53 11-0200 EA 6", 2-3/8" Diameter, Galvanized Steel Tubular Sign Post	88.75	21.94
10 14 53 11-0201 EA 7", 2-3/8" Diameter, Galvanized Steel Tubular Sign Post	105.26	26.33
10 14 53 11-0202 EA 8", 2-3/8" Diameter, Galvanized Steel Tubular Sign Post	124.40	30.72
10 14 53 11-0203 EA 10", 2-3/8" Diameter, Galvanized Steel Tubular Sign Post	160.68	37.31
10 14 53 11-0204 EA 12", 2-3/8" Diameter, Galvanized Steel Tubular Sign Post	174.93	37.31
10 14 53 11-0205 Square Sign Posts (10 14 53 11-0175) Note: Excludes digging and concrete.		
10 14 53 11-0206 Galvanized Steel Square Sign Posts (10 14 53 11-0205)		
10 14 53 11-0207 EA 3' To 4' Galvanized Steel Square Sign Post Base	66.89	17.55
10 14 53 11-0208 EA 6' Galvanized Steel Square Sign Post	107.56	21.94
10 14 53 11-0209 EA 7' Galvanized Steel Square Sign Post	126.02	26.33
10 14 53 11-0210 EA 8' Galvanized Steel Square Sign Post	146.99	30.72
10 14 53 11-0211 EA 10' Galvanized Steel Square Sign Post	179.53	37.31
10 14 53 11-0212 EA 12' Galvanized Steel Square Sign Post	189.48	37.31
10 14 53 11-0213 Other Sign Posts And Bases (10 14 53 11-0001) Note: For breakaway post systems, base posts are driven in, sign posts bolted to base post using lap splice hardware kit.		



Specialties			10
Information Specialties			10 10
Signage			10 14

10

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0214 2.5 LB/FT Breakaway Sign Posts And Base Posts (10 14 53 11-0213)		
10 14 53 11-0215 Base Posts, 2.5 LB/LF, For Breakaway Sign Posts (10 14 53 11-0214)		
10 14 53 11-0216 EA Base Post for 2.5 LB/LF Breakaway Sign Post.....	90.47	21.45
10 14 53 11-0217 EA Lap Splice Hardware For 2.5 LB/LF Breakaway Sign Post.....	56.15	17.15
10 14 53 11-0218 Breakaway Sign Posts, 2.5 LB/LF (10 14 53 11-0214)		
10 14 53 11-0219 LF 2.5 LB/LF Breakaway Sign Post.....	11.77	2.15
10 14 53 11-0220 4 LB/FT Breakaway Sign Posts And Base Posts (10 14 53 11-0213)		
10 14 53 11-0221 Base Posts, 4 LB/LF, For Breakaway Sign Posts (10 14 53 11-0220)		
10 14 53 11-0222 EA Base Post For 4 LB/LF Breakaway Sign Post	94.81	25.73
10 14 53 11-0223 EA Lap Splice Hardware for 4 LB/LF Breakaway Sign Post.....	56.15	17.15
10 14 53 11-0224 Breakaway Sign Posts, 4 LB/LF (10 14 53 11-0220)		
10 14 53 11-0225 LF 4 LB/LF Breakaway Sign Post	14.46	2.15
10 14 53 11-0226 Driven Sign Posts (10 14 53 11-0213)		
10 14 53 11-0227 Driven Posts, 2.5 LB/LF (10 14 53 11-0226)		
10 14 53 11-0228 LF 2.5 LB/LF Driven Post.....	12.62	3.00
10 14 53 11-0229 Driven Posts, 4 LB/LF (10 14 53 11-0226)		
10 14 53 11-0230 LF 4 LB/LF Driven Post.....	15.74	3.43
10 14 53 11-0231 Omni-Directional Breakaway System For Sign Posts And Light Poles (10 14 53 11-0213)		
10 14 53 11-0232 Omni-Directional Breakaway Systems For Signs (10 14 53 11-0231) Note: Break-Safe as manufactured by Trampo Industries. Tasks are organized by post type and size. Includes hinges, anchors, all associated parts and drilling.		
10 14 53 11-0233 EA Omni-Directional Breakaway System For 6" To 8" Wide Flange (Trampo B525).....	1,366.82	
10 14 53 11-0234 EA Omni-Directional Breakaway System For 10" To 21" Wide Flange (Trampo B650).....	1,456.33	
10 14 53 11-0235 EA Omni-Directional Breakaway System For Standard I Beam Or W6x9 Flange (Trampo AI4 And AI6).....	998.43	
10 14 53 11-0236 EA Omni-Directional Breakaway System For 3" To 4.5" Outside Diameter Pipe (Trampo A3 And A4.5).....	874.48	
10 14 53 11-0237 EA Omni-Directional Breakaway System For Square Tube (Trampo AS3 And AS4)	991.55	
10 14 53 11-0238 EA Omni-Directional Breakaway System For U-Channels (Trampo AU4 To AU6).....	943.34	
10 14 53 11-0239 EA Omni-Directional Breakaway System For U-Channels Embedded (Trampo AUX4 To AUX6).....	1,022.53	
10 14 53 11-0240 Omni-Directional Breakaway Systems For Poles (10 14 53 11-0231) Note: Pole-Safe as Manufactured by Trampo Industries. Tasks are organized by bolt size. Includes four couplings, all associated parts, drilling and can be for new or for retro-fitting existing poles.		
10 14 53 11-0241 EA Omni-Directional Breakaway System For Poles With 5/8" Couplings.....	458.87	
10 14 53 11-0242 EA Omni-Directional Breakaway System For Poles With 3/4" Couplings.....	481.07	
10 14 53 11-0243 EA Omni-Directional Breakaway System For Poles With 1" Couplings.....	499.58	
10 14 53 11-0244 EA Omni-Directional Breakaway System For Poles With 1 1/4" Couplings.....	758.61	
10 14 53 11-0245 EA Skirt For Omni-Directional Breakaway System For Poles With Bolt Circle Diameter Of 10" To Less Than 15".....	66.61	
10 14 53 11-0246 EA Skirt For Omni-Directional Breakaway System For Poles With Bolt Circle Diameter Of 15" To 20"	88.81	
10 14 53 11-0247 Wood Posts (10 14 53 11-0213) Note: The quantity is the total length, including the buried portion. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.		
10 14 53 11-0248 LF 4" x 4" Pressure Treated Wood Sign Post	10.04	
10 14 53 11-0249 Sign Post Accessories (10 14 53 11-0001)		
10 14 53 11-0250 Sign Post Brackets (10 14 53 11-0249)		
10 14 53 11-0251 EA 2-3/8" Outside Diameter, Single Side Sign Bracket Set.....	46.16	6.43
Note: Includes 2 single side sign post brackets		
10 14 53 11-0252 EA 2-3/8" Outside Diameter, Double Side Sign Bracket Set	61.45	10.72
Note: Includes 2 double side sign post brackets		
10 14 53 11-0253 EA 4" To 12" Diameter, Buckle Bracket Set	55.70	8.58
Note: Includes 2 stainless steel straps, 2 brackets and fastener hardware		
10 14 53 11-0254 Sign Post Caps (10 14 53 11-0249)		
10 14 53 11-0255 EA 2-3/8" Diameter, Galvanized, Flat Traffic Sign Post Cap (EC-2).....	21.00	4.29
10 14 53 11-0256 Sign Post Replacement Bolts (10 14 53 11-0249)		

10	10	Specialties
	10 10	Information Specialties
	10 14	Signage



MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0257	EA	Signage Fasteners Replacement..... Note: Includes two 5/16" x 2" long bolts, two 5/16" nuts And four 5/16" washers	14.53		
10 14 53 11-0258		Reflective Panels For "U" Channel Post ^(10 14 53 11-0249)			
10 14 53 11-0259	EA	3" x 72" Reflective Panel For "U-Channel" Post..... Note: Diamond grade panel including mounting hardware.	61.78		
10 14 53 11-0260		Removal Of Signs ^(10 14 53 11) Note: Includes structural supports.			
10 14 53 11-0261	EA	>4 To 10 SF Sign Area, Sign Removal	171.58		
10 14 53 11-0262	EA	>10 To 20 SF Sign Area, Sign Removal	411.78		
10 14 53 11-0263	EA	>20 To 40 SF Sign Area, Sign Removal	617.66		
10 14 53 11-0264	EA	>40 To 100 SF Sign Area, Sign Removal	1,029.61		
10 14 53 11-0265		Removal And Reinstallation Of Signs ^(10 14 53 11) Note: Includes structural supports.			
10 14 53 11-0266	EA	>4 To 10 SF Sign Area, Removal And Reinstallation Of Sign	261.93		
10 14 53 11-0267	EA	>10 To 20 SF Sign Area, Removal And Reinstallation Of Sign	620.91		
10 14 53 11-0268	EA	>20 SF To 40 SF Sign Area, Removal And Reinstallation Of Sign	929.27		
10 14 53 11-0269	EA	>40 SF To 100 SF Sign Area, Removal And Reinstallation Of Sign	1,546.98		
10 14 53 11-0270	EA	Removal And Reinstallation Of Street Sign On Post	98.65		
10 14 53 11-0271	EA	Removal And Relocation Of Traffic Light..... Note: Excludes electrical hookup.	353.30		
10 50 Storage Specialties⁽¹⁰⁾					
10 55 Postal Specialties^(10 50)					
10 55 23 Mail Boxes^(10 55)					
10 55 23 23 Residential Mail Boxes^(10 55 23)					
10 55 23 23-0001		Residential Mail Boxes ^(10 55 23 23)			
10 55 23 23-0002	EA	13" x 3-9/16" Satin Aluminum (Aluminum Body) Letter Slot With Interior Plate	116.92		13.58
		For Stainless Steel Sleeve, Add	24.38		
10 55 23 23-0003	EA	13" x 3-9/16" Bright Brass (Brass Body) Letter Slot With Interior Plate.....	154.68		13.58
		For Stainless Steel Sleeve, Add	24.38		
10 55 23 23-0004	EA	Aluminum Or Galvanized Wall Mounted Mailbox	90.83		12.08
10 55 23 23-0005	EA	20" x 8-3/4" x 6-7/8" Galvanized Steel Residential Rural Mailbox With 1-1/2" Post.....	136.14		15.08
10 55 23 26 Commercial Mail Boxes^(10 55 23)					
10 55 23 26-0001		Commercial Letter Boxes ^(10 55 23 26) Note: Includes locks and keys unless provided by the United States Postal Service.			
10 55 23 26-0002	EA	15" Wide x 19" High x 7-1/2" Deep, US Postal Service Approved, Surface Mount, Aluminum Letter Box (Salsbury 2240AU)	393.73		18.10
10 55 23 26-0003	EA	15" Wide x 19" High x 6-3/4" Deep, Private Use/Access, Recessed Mount, Aluminum Letter Box (Salsbury 2245AP).....	455.02		18.10
10 55 23 26-0004		Commercial Horizontal Mail Boxes ^(10 55 23 26) Note: Includes locks and keys unless provided by the United States Postal Service.			
10 55 23 26-0005	BOX	5-1/2" Wide x 5-1/2" High x 15-1/2" Deep, Private Use/Access, Wall Mount, Aluminum Horizontal Mail Boxes, Per Box	80.07		18.10
10 55 23 26-0006	BOX	10-3/4" Wide x 5-1/2" High x 15-1/2" Deep, Private Use/Access, Wall Mount, Aluminum Horizontal Mail Boxes, Per Box	169.93		24.13
10 55 23 26-0007	BOX	6-3/8" Wide x 5" High x 17" Deep, US Postal Service Approved, Wall Mount, Aluminum Horizontal Mail Boxes, Per Box	102.82		15.08
10 55 23 26-0008	BOX	12-7/8" Wide x 5" High x 17" Deep, US Postal Service Approved, Wall Mount, Aluminum Horizontal Mail Boxes, Per Box.....	159.87		24.13
10 55 23 26-0009		Commercial Cluster Mail Boxes ^(10 55 23 26) Note: Includes locks and keys unless provided by the United States Postal Service. Includes pedestal. Excludes concrete foundation.			
10 55 23 26-0010	EA	13-15/16 Wide" x 24-1/8" High x 15" Deep, Pedestal Mount, Aluminum (NDCBU) Neighborhood Delivery And Collection Mail Box (National Mailboxes H8MNDNCBU5)	2,018.34		36.21
		Note: Any door combination.			
10 55 23 26-0011	EA	26-15/16" Wide x 24-1/8" High x 15" Deep, Pedestal Mount, Aluminum (NDCBU) Neighborhood Delivery And Collection Mail Box (National Mailboxes H16MNDNCBU8)	2,391.83		48.27
		Note: Any door combination.			
10 55 23 26-0012	EA	30-1/2" Wide x 62" High x 17-7/8" Deep, 8 Tenant Doors, 2 Parcel Lockers, Pedestal Mount, Aluminum And Stainless Steel Construction, (CBU) Cluster Mail Box (AF Florence Vital 1570-8).....	3,240.74		48.27
10 55 23 26-0013	EA	30-1/2" Wide x 62" High x 17-7/8" Deep, 12 Tenant Doors, 1 Parcel Locker, Pedestal Mount, Aluminum And Stainless Steel Construction, (CBU) Cluster Mail Box (AF Florence Vital 1570-12)	3,342.89		48.27
10 55 23 26-0014	EA	30-1/2" Wide x 62" High x 17-7/8" Deep, 16 Tenant Doors, 2 Parcel Lockers, Pedestal Mount, Aluminum And Stainless Steel Construction, (CBU) Cluster Mail Box (AF Florence Vital 1570-16)	3,496.11		48.27



		Specialties	10
		Storage Specialties	10 50
		Postal Specialties	10 55

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
10 55 23 26-0015 Commercial 4C Mail Boxes (10 55 23 26)					
Note: Includes locks and keys unless provided by the United States Postal Service.					
10 55 23 26-0016	EA	31-9/16" Wide x 40-3/4" High x 17" Deep, 9 Doors, Recessed Wall Mount, Aluminum 4C Mail Box (AF Florence 4C11S-09)	1,780.01		48.27
10 55 23 26-0017	EA	31-9/16" Wide x 40-3/4" High x 17" Deep, 15 Doors, 1 Parcel Locker, Recessed Wall Mount, Aluminum 4C Mail Box (AF Florence 4C11D-15)	3,124.58		48.27
10 55 23 26-0018	EA	31-9/16" Wide x 40-3/4" High x 17" Deep, 19 Doors, Recessed Wall Mount, Aluminum 4C Mail Box (AF Florence 4C11D-19)	3,247.16		48.27
10 55 26 Parcel Lockers (10 55)					
10 55 26 00-0001 Parcel Lockers (10 55 26)					
10 55 26 00-0002	EA	24" x 14" x 15" Deep, Aluminum Pedestal Mounted Parcel Locker	1,501.47		36.21
Note: Two compartments.					
10 55 26 00-0003	EA	48" x 16" x 18" Deep, Aluminum Pedestal Mounted Parcel Locker	1,785.64		48.27
Note: Two compartments.					
10 80 Other Specialties (10)					
10 81 Pest Control Devices (10 80)					
10 81 13 Bird Control Devices (10 81)					
10 81 13 00-0001 Stainless Steel Spiked Bird Barrier (10 81 13)					
Note: Stainless steel spikes with flexible polycarbonate base.					
10 81 13 00-0002	LF	2-1/2" To 3" Wide Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System	10.21		0.97
10 81 13 00-0003	LF	4-1/2" To 5" Wide Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System	12.33		0.97
10 81 13 00-0004	LF	8" Wide Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System	18.20		0.97
10 81 13 00-0005 Polycarbonate Spiked Bird Barrier (10 81 13)					
Note: Polycarbonate spikes and base.					
10 81 13 00-0006	LF	3" Wide Polycarbonate Spikes And Base Bird Deterrent System	9.42		0.97
10 81 13 00-0007	LF	5" Wide Polycarbonate Spikes And Base Bird Deterrent System	11.43		0.97
10 81 13 00-0008	LF	8" Wide Polycarbonate Spikes And Base Bird Deterrent System	13.62		0.97
10 81 13 00-0009 Spiked Gutter Or Girder Bird Barrier (10 81 13)					
Note: Stainless steel spikes with flexible polycarbonate base mounted to gutter or girder. Includes aluminum clamps.					
10 81 13 00-0010	LF	Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System For Gutter Or Girder Application	10.85		0.97
10 81 13 00-0011 Coil Bird Barrier (10 81 13)					
Note: Stainless steel coil.					
10 81 13 00-0012	LF	4" Diameter Stainless Steel Coil Bird Deterrent System	7.61		0.97
10 81 13 00-0013	LF	5" Diameter Stainless Steel Coil Bird Deterrent System	9.01		0.97
10 81 13 00-0014 Spider Bird Barrier (10 81 13)					
Note: Stainless steel arms with various bases.					
10 81 13 00-0015	EA	2" Diameter Stainless Steel Spider Bird Deterrent System	132.62		0.97
10 81 13 00-0016	EA	4" Diameter Stainless Steel Spider Bird Deterrent System	195.62		0.97
10 81 13 00-0017	EA	8" Diameter Stainless Steel Spider Bird Deterrent System	246.71		0.97
10 81 13 00-0018 Oriented Flexible Flame Resistant Netting (10 81 13)					
Note: Includes stainless steel rings and plastic ties.					
10 81 13 00-0019	SF	1/8" x 1/8" Mesh Flexible Polypropylene Netting	0.98		0.34
Note: To control bird and marine predators.					
10 81 13 00-0020	SF	1/4" x 1/4" Mesh Flexible Polypropylene Netting	0.94		0.34
Note: To control bird and marine predators.					
10 81 13 00-0021	SF	1/2" x 1/2" Mesh Flexible Polypropylene Netting	0.91		0.34
Note: To control bird and marine predators.					
10 81 13 00-0022	SF	3/4" x 3/4" Mesh Flexible Polypropylene Netting	0.88		0.34
Note: To control bird and marine predators.					
10 81 13 00-0023	SF	1" x 1" Mesh Flexible Polypropylene Netting	0.88		0.34
Note: To control bird and marine predators.					
10 81 13 00-0024	SF	1-1/8" x 1-1/8" Mesh Flexible Polypropylene Netting	0.85		0.34
Note: To control bird and marine predators.					
10 81 13 00-0025	SF	2" x 2" Mesh Flexible Polypropylene Netting	0.83		0.34
Note: To control bird and marine predators.					
10 81 13 00-0026	SF	3" x 3" Mesh Flexible Polypropylene Netting	0.83		0.34
Note: To control bird and marine predators.					
10 81 13 00-0027	SF	4" x 4" Mesh Flexible Polypropylene Netting	0.80		0.34
Note: To control bird and marine predators.					
10 81 13 00-0028	SF	5/8" x 3/4" Mesh Flexible Polypropylene Netting	0.89		0.34
Note: To control bird and marine predators.					

10	10	Specialties
	10 80	Other Specialties
	10 81	Pest Control Devices



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST
10 81 13 00-0029	SF	1-1/4" x 1-1/2" Mesh Flexible Polypropylene Netting		0.84		0.34
		Note: To control bird and marine predators.				
10 81 13 00-0030	EA	Poly Clips For Flexible Netting.....		3.00		
10 81 13 00-0031		Netting Accessories (10 81 13)				
10 81 13 00-0032	EA	2' Zipper For Flexible Netting.....		8.78		
10 81 13 00-0033	EA	4' Zipper For Flexible Netting.....		13.23		
10 81 13 00-0034	EA	6' Zipper For Flexible Netting.....		15.56		
10 81 13 00-0035	EA	8' Zipper For Flexible Netting.....		22.12		
10 81 16		Insect Control Devices (10 81)				
10 81 16 00-0001		Insect Screening (10 81 16)				
10 81 16 00-0002	CSF	17/14 Mesh Insect Screening With Flat Screen Splines		133.50		

END OF SECTION 10



Special Construction		13
Integrated Construction		13 40
Facility Protection		13 47

13

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

13 Special Construction

13 40 Integrated Construction ⁽¹³⁾

13 47 Facility Protection ^(13 40)

13 47 13 Cathodic Protection ^(13 47)

13 47 13 13 Cathodic Protection for Underground and Submerged Piping ^(13 47 13)

13 47 13 13-0001	Anodes ^(13 47 13 13)		
13 47 13 13-0002	Magnesium Type, Conventional ^(13 47 13 13-0001)		
13 47 13 13-0003	EA 9 LB Magnesium Type Anodes.....	455.14	205.19
13 47 13 13-0004	EA 17 LB Magnesium Type Anodes.....	671.34	296.56
13 47 13 13-0005	EA 32 LB Magnesium Type Anode.....	905.03	381.52
13 47 13 13-0006	EA 48 LB Magnesium Type Anode.....	1,284.21	533.81
13 47 13 13-0007	Graphite Type ^(13 47 13 13-0001) Note: Includes epoxy cap.		
13 47 13 13-0008	EA 3" x 60" (32 LB) Graphite Type Anodes With Epoxy Cap	696.48	300.70
13 47 13 13-0009	EA 4" x 80" (68 LB) Graphite Type Anodes With Epoxy Cap	1,060.10	419.90
13 47 13 13-0010	EA 6" x 36" (45 LB) Graphite Type Anodes With Epoxy Cap	769.36	262.78
13 47 13 13-0011	EA 6" x 72" (80 LB) Graphite Type Anodes With Epoxy Cap	1,151.34	350.82
13 47 13 13-0012	Rectifiers ^(13 47 13 13)		
13 47 13 13-0013	Air Cooled, Silicon Type ^(13 47 13 13-0012)		
13 47 13 13-0014	EA Air Cooled Rectifiers, 28 Volt, 10 Amperes, Silicon Type	2,208.75	426.94
13 47 13 13-0015	EA Air Cooled Rectifiers, 20 Volt / 20 Amperes, Silicon Type	2,377.85	426.94
13 47 13 13-0016	Oil Immersed, Silicon Type ^(13 47 13 13-0012)		
13 47 13 13-0017	EA Oil Immersed Rectifiers, 28 Volt, 10 Amperes, Silicon Type.....	3,281.13	493.65
13 47 13 13-0018	EA Oil Immersed Rectifiers, 20 Volt / 20 Amperes, Silicon Type.....	3,462.30	493.65
13 47 13 13-0019	Anode Backfill ^(13 47 13 13)		
13 47 13 13-0020	LB Anode Backfill, Coke Breeze	1.39	0.54
13 47 13 13-0021	Cathodic Protection Cable ^(13 47 13 13)		
13 47 13 13-0022	MLF Cathodic Protection Cable, OR2 - No 8	2,616.15	1,051.11
13 47 13 13-0023	MLF Cathodic Protection Cable, OR2 - No 6	2,843.76	1,051.11
13 47 13 13-0024	MLF Cathodic Protection Cable, OR2 - No 4	3,185.18	1,051.11
13 47 13 13-0025	MLF Cathodic Protection Cable, OR2 - No 2	3,754.22	1,051.11
13 47 13 13-0026	MLF Cathodic Protection Cable, OR2 - No 1	4,588.25	1,158.11
13 47 13 13-0027	MLF Cathodic Protection Cable, OR2-No 1/0	5,015.02	1,158.11
13 47 13 13-0028	MLF Cathodic Protection Cable, OR2-No 2/0	5,726.31	1,158.11
13 47 13 13-0029	MLF Cathodic Protection Cable, OR2-No 4/0	7,641.10	1,262.41
13 47 13 13-0030	Cathodic Test Stations ^(13 47 13 13)		
13 47 13 13-0031	Flush Curb Box Type With Lockable Cover And Terminal Box ^(13 47 13 13-0030)		
13 47 13 13-0032	EA Cathodic Test Station, Flush Curb Type With Lockable Cover.....	341.61	123.04
13 47 13 16	Cathodic Protection for Underground Storage Tanks ^(13 47 13) See CSI section 13 47 13 13-0000 for cathodic protection for tanks.		

END OF SECTION 13

13	13	Special Construction
	13 40	Integrated Construction
	13 47	Facility Protection



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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	Plumbing	22	
	Plumbing Piping	22 10	22
	Facility Sanitary Sewerage	22 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

22 Plumbing

Note: Where required, mechanical equipment excludes electrical connection unless title states otherwise.

22 10 Plumbing Piping⁽²²⁾

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

22 13 Facility Sanitary Sewerage^(22 10)

22 13 29 Sanitary Sewerage Pumps^(22 13)

Note: Includes extra set of gaskets, bearings and seals.

22 13 29 13 Wet-Pit-Mounted, Vertical Sewerage Pumps^(22 13 29)

22 13 29 13-0001 Vertical Column, Flanged Discharge, Non-Clog Sump Or Drainage Pumps (Crane-DEMING Series 4500)^(22 13 29 13)

Note: Mounted on steel support plate. Excludes float and float switch, and sump cover See CSI section 22 13 29 13-0030 for float and float switch, 22 13 29 13-0034 for sump cover.

22 13 29 13-0002	1-1/2" Solids 1,750 RPM Vertical Sump Or Drainage Pumps ^(22 13 29 13-0001)		
22 13 29 13-0003	EA 1/2 HP, Up To 75 GPM Sump Or Drainage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM	6,787.97	1,633.11
22 13 29 13-0004	EA 3/4 HP, Up To 125 GPM Sump Or Drainage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM	7,004.43	1,633.11
22 13 29 13-0005	EA 1 HP, Up To 150 GPM Sump Or Drainage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM	7,220.89	1,633.11
22 13 29 13-0006	EA 1-1/2 HP, Up To 150 GPM Sump Or Drainage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM	7,427.36	1,633.11

22 13 29 13-0007 2" Solids 1,750 RPM Vertical Sump Or Drainage Pumps^(22 13 29 13-0001)

22 13 29 13-0008	EA 3/4 HP, Up To 75 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM	7,387.40	1,633.11
22 13 29 13-0009	EA 1 HP, Up To 100 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM	7,470.66	1,633.11
22 13 29 13-0010	EA 2 HP, Up To 200 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM	7,528.94	1,633.11
22 13 29 13-0011	EA 3 HP, Up To 300 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM	7,928.56	1,633.11
22 13 29 13-0012	EA 5 HP, Up To 400 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM	8,319.86	1,633.11
22 13 29 13-0013	EA 7-1/2 HP, Up To 500 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM	8,919.29	1,633.11
22 13 29 13-0014	EA 10 HP, Up To 600 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM	9,518.73	1,633.11
22 13 29 13-0015	EA 15 HP, Up To 600 GPM Sump Or Drainage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM	11,198.58	2,173.31

22 13 29 13-0016 3" Solids 1,750 RPM Vertical Sump Or Drainage Pumps^(22 13 29 13-0001)

22 13 29 13-0017	EA 2 HP, Up To 300 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM	7,804.56	1,633.11
22 13 29 13-0018	EA 3 HP, Up To 400 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM	7,804.56	1,633.11
22 13 29 13-0019	EA 5 HP, Up To 500 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM	7,948.81	1,633.11
22 13 29 13-0020	EA 7-1/2 HP, Up To 700 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM	9,068.02	1,633.11
22 13 29 13-0021	EA 10 HP, Up To 800 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM	9,264.35	1,633.11
22 13 29 13-0022	EA 15 HP, Up To 900 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM	11,267.64	2,173.31
22 13 29 13-0023	EA 20 HP, Up To 900 GPM Sump Or Drainage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM	11,767.17	2,173.31

22 13 29 13-0024 Extra Column Assemblies Addition, 5' Or Less^(22 13 29 13-0001)

22 13 29 13-0025	EA 2-1/2" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps	544.22	
22 13 29 13-0026	EA 3" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps	653.44	
22 13 29 13-0027	EA 4" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps	730.37	
22 13 29 13-0028	EA 5" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps	743.67	
22 13 29 13-0029	EA 6" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps	834.84	

22 13 29 13-0030 Float Switches^(22 13 29 13-0001)

Note: Copper coated floats, brass rods and stops and switch brackets.

22 13 29 13-0031	EA Float Switch Copper Coated Float, Add, General Purpose For vertical sewage pumps	489.13	
22 13 29 13-0032	EA Float Switch Copper Coated Float, Add, Weather Proof For vertical sewage pumps	513.82	
22 13 29 13-0033	EA Float Switch Copper Coated Float, Add, Explosion Proof For vertical sewage pumps	525.22	

22 13 29 13-0034 Square Or Round Steel Sump Covers^(22 13 29 13-0001)

22 13 29 13-0035	EA 24" Steel Sump Covers, Square Or Round	892.64	54.45
22 13 29 13-0036	EA 30" Steel Sump Covers, Square Or Round	988.32	61.26
22 13 29 13-0037	EA 36" Steel Sump Covers, Square Or Round	1,370.72	81.68
22 13 29 13-0038	EA 40" Steel Sump Covers, Square Or Round	1,984.28	95.30
22 13 29 13-0039	EA 42" Steel Sump Covers, Square Or Round	2,126.51	98.70
22 13 29 13-0040	EA 48" Steel Sump Covers, Square Or Round	2,273.22	102.11
22 13 29 13-0041	EA 54" Steel Sump Covers, Square Or Round	2,894.17	122.52
22 13 29 13-0042	EA 60" Steel Sump Covers, Square Or Round	3,914.11	136.14
22 13 29 13-0043	EA 72" Steel Sump Covers, Square Or Round	4,963.47	170.18
22 13 29 13-0044	EA 84" Steel Sump Covers, Square Or Round	6,303.36	187.19

22 13 29 16 Submersible Sewerage Pumps^(22 13 29)

22 13 29 16-0001 Submersible Sewage Pumps With Vortex Impeller^(22 13 29 16)

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 16-0002	Submersible Single Seal Sewage Pumps With Cast Iron Vortex Impeller (22 13 29 16-0001) Note: Includes 25' cord.			
22 13 29 16-0003	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,413.25	99.07
22 13 29 16-0004	EA	1/2 HP Automatic Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,501.39	99.07
22 13 29 16-0005	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,474.27	99.07
22 13 29 16-0006	EA	1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,604.21	99.07
22 13 29 16-0007	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,604.21	99.07
22 13 29 16-0008	EA	1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,712.05	123.84
22 13 29 16-0009	EA	1 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,827.31	123.84
22 13 29 16-0010	EA	1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller	1,841.99	123.84
22 13 29 16-0011	Submersible Single Seal Sewage Pumps With Bronze Vortex Impeller (22 13 29 16-0001) Note: Includes 20' cord.			
22 13 29 16-0012	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,438.11	99.07
22 13 29 16-0013	EA	1/2 HP Automatic Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,564.66	99.07
22 13 29 16-0014	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,504.78	99.07
22 13 29 16-0015	EA	1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,626.81	99.07
22 13 29 16-0016	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,736.42	99.07
22 13 29 16-0017	EA	1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,641.99	123.84
22 13 29 16-0018	EA	1 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,773.07	123.84
22 13 29 16-0019	EA	1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,771.94	123.84
22 13 29 16-0020	EA	1-1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,075.09	199.62
22 13 29 16-0021	EA	1-1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,185.83	199.62
22 13 29 16-0022	EA	1-1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,205.04	199.62
22 13 29 16-0023	EA	2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,248.95	243.99
22 13 29 16-0024	EA	2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,375.51	243.99
22 13 29 16-0025	EA	2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,378.90	243.99
22 13 29 16-0026	Submersible Double Seal Sewage Pumps With Bronze Vortex Impeller (22 13 29 16-0001) Note: Includes 20' cord.			
22 13 29 16-0027	EA	1/2 HP Manual Submersible Double Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,691.22	99.07
22 13 29 16-0028	EA	1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	1,905.91	99.07
22 13 29 16-0029	EA	1 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron And Bronze Impeller	1,882.67	123.84
22 13 29 16-0030	EA	1 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron And Bronze Impeller	2,012.62	123.84
22 13 29 16-0031	EA	1-1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,333.85	199.62
22 13 29 16-0032	EA	1-1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,463.80	199.62
22 13 29 16-0033	EA	2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,508.84	243.99
22 13 29 16-0034	EA	2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller	2,638.79	243.99
22 13 29 16-0035	Submersible Sewage Pumps With Semi-Open Impeller (22 13 29 16) Note: Includes 25' of cord with pump.			
22 13 29 16-0036	EA	1 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	3,980.30	123.84
22 13 29 16-0037	EA	1.5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	4,249.29	182.47
22 13 29 16-0038	EA	2 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	4,570.33	223.02



Plumbing			22
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MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 16-0039	EA	3 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	4,801.48	270.33	
22 13 29 16-0040	EA	5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	5,395.30	317.64	
22 13 29 16-0041	EA	7.5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	6,031.53	364.94	
22 13 29 16-0042		Submersible Sewage Pumps, Explosion Proof (22 13 29 16)			
		Note: Includes 25' of cord with pump.			
22 13 29 16-0043	EA	1 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,997.18	443.75	
22 13 29 16-0044	EA	1 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,470.10	443.75	
22 13 29 16-0045	EA	1 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,470.10	443.75	
22 13 29 16-0046	EA	1.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,394.03	591.65	
22 13 29 16-0047	EA	1.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,866.96	591.65	
22 13 29 16-0048	EA	1.5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	6,866.96	591.65	
22 13 29 16-0049	EA	2 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,899.59	739.57	
22 13 29 16-0050	EA	2 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,372.52	739.57	
22 13 29 16-0051	EA	2 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,372.52	739.57	
22 13 29 16-0052	EA	3 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	8,303.03	887.49	
22 13 29 16-0053	EA	3 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,775.95	887.49	
22 13 29 16-0054	EA	3 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	7,775.95	887.49	
22 13 29 16-0055	EA	5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	9,197.31	1,035.40	
22 13 29 16-0056	EA	5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	8,670.23	1,035.40	
22 13 29 16-0057	EA	5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	8,670.23	1,035.40	
22 13 29 16-0058	EA	7.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	9,576.60	1,183.32	
22 13 29 16-0059	EA	7.5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller	9,576.60	1,183.32	
22 13 29 16-0060		Submersible Sewage Pump Accessories (22 13 29 16)			
22 13 29 16-0061	EA	Simplex Plug In Pump Control Panel with Alarm Float Only, 115 Volt, 1 Phase, 0-15 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump	711.42	111.18	
		Note: Includes alarm horn, warning light and alarm float switch.			
22 13 29 16-0062	EA	Simplex Plug In Pump Control Panel with Alarm Float Only, 230 Volt, 1 Phase, 0-15 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump	733.01	111.18	
		Note: Includes alarm horn, warning light, and alarm float switch.			
22 13 29 16-0063	EA	Simplex Control Panel With 3 Floats, 115/208/230 Volt, 1 Phase, 0-20 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump	1,410.62	148.25	
		Note: Includes alarm horn, warning light, HOA switch and three 20' control float switches.			
22 13 29 16-0064	EA	Simplex Control Panel 208/230/460 Volt, 3 Phase, 1-23 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump	1,963.38	148.25	
		Note: Includes alarm horn and warning light. Control float switches not included.			
22 13 29 16-0065	EA	Simplex Intrinsically Safe Control Panel, 230 Volt, 1 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors	4,326.06	148.25	
		Note: Includes alarm horn and warning light. Control float switches not included.			
22 13 29 16-0066	EA	Simplex Intrinsically Safe Control Panel, 200/230/460 Volt, 3 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors	4,522.98	148.25	
		Note: Includes alarm horn and warning light. Control float switches not included.			
22 13 29 16-0067	EA	Duplex Intrinsically Safe Control Panel, 230 Volt, 1 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors	7,205.61	185.30	
		Note: Includes alarm horn and warning light. Control float switches not included.			
22 13 29 16-0068	EA	Duplex Intrinsically Safe Control Panel, 200/230/460 Volt, 3 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors	6,085.36	185.30	
		Note: Includes alarm horn and warning light. Control float switches not included.			
22 13 29 16-0069	EA	Electrical Alternator Duplex Control Panel with 3 Floats, 115 Volt, 1 Phase, 7-20 Amperes Range, Indoor NEMA 1 Enclosure For Submersible Sewage Pumps	1,574.35	185.30	
		Note: Includes alarm horn, warning light, and three 20' float switches.			
22 13 29 16-0070	EA	Electrical Alternator Duplex Control Panel With 3 Floats, 115 Volt, 1 Phase, 7-20 Amperes Range, Indoor NEMA 4X Enclosure For Submersible Sewage Pumps	1,725.50	185.30	
		Note: Includes alarm horn, warning light, and three 20' float switches.			
22 13 29 16-0071	EA	Electrical Alternator Duplex Control Panel With 3 Floats, 115/200/230 Volt, 1 Phase, 0-20 Amperes, Indoor NEMA 1 Enclosure For Submersible Sewage Pumps	1,659.64	185.30	
		Note: Includes alarm horn, warning light, and three 20' float switches.			
22 13 29 16-0072	EA	Electrical Alternator Duplex Control Panel With 3 Floats, 115/200/230 Volt, 1 Phase, 0-30 Amperes Range, Indoor NEMA 4X Enclosure For Submersible Sewage Pumps	1,795.85	185.30	
		Note: Includes alarm horn, warning light, and three 20' float switches.			

22 Plumbing**22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 16-0073 EA Electrical Alternator Duplex Control Panel, 200/230/460 Volt, 3 Phase, 1-25 Amperes Range, Indoor/Outdoor NEMA 4X Enclosure For Submersible Sewage Pumps.....	3,012.48	185.30
Note: Includes alarm horn and warning light. Float switches not included..		
22 13 29 16-0074 EA Alarm System, 115 Volt, Indoor/Outdoor 4X Enclosure	581.17	74.12
Note: Includes alarm horn, warning light and 15' tethered float.		
22 13 29 16-0075 EA Variable Level (Clamp Type) Float Switch With 15' Cord	121.62	37.06
Note: Not for use with Intrinsically Safe Control Systems.		
22 13 29 16-0076 EA Variable Level (Clamp Type) Float Switch With 15' Cord For Intrinsically Safe Control Systems Only	140.36	37.06
22 13 29 16-0077 EA Variable Level (Adjustable Weight Type) Float Switch With 25' Cord	150.64	37.06
Note: Not for use with Intrinsically Safe Control Systems.		
22 13 29 16-0078 EA Variable Level (Adjustable Weight Type) Float Switch With 25' Cord For Intrinsically Safe Control Systems Only	155.38	37.06
22 13 29 16-0079 EA Float Switch Tree With (3) 15' Floats	414.43	37.06
Note: Not for use with Intrinsically Safe Control Systems.		
22 13 29 16-0080 EA Float Switch Tree And (3) Floats With 15' Cords For Intrinsically Safe Control Systems Only	457.23	37.06
22 13 29 16-0081 EA Float Switch Tree And (4) Floats With 15' Cords	459.36	37.06
Note: Not for use with Intrinsically Safe Control Systems.		
22 13 29 16-0082 EA Float Switch Tree And (4) Floats With 15' Cords For Intrinsically Safe Control Systems Only	518.34	37.06
22 13 29 16-0083 EA Float Switch Tree	229.28	37.06
Note: Tree only.		
22 13 29 16-0084 EA Adjustable Weight For Float Switch	65.52	18.53
22 13 29 16-0085 EA Rail And Disconnect System, Stainless Steel, For 2" Horizontal Discharge	1,170.01	111.18
Note: Lifting equipment not included.		
22 13 29 16-0086 EA Rail And Disconnect System, Stainless Steel, For 3" Horizontal Discharge	1,821.73	148.25
Note: Lifting equipment not included.		
22 13 29 16-0087 EA Rail And Disconnect System, Stainless Steel, For 4" Horizontal Discharge	2,375.43	185.30
Note: Lifting equipment not included.		
22 13 29 16-0088 EA Rail And Disconnect System, Stainless Steel Non-Sparking, For 3" Horizontal Discharge	2,488.25	111.18
22 13 29 16-0089 EA Rail And Disconnect System, Stainless Steel Non-Sparking, For 4" Horizontal Discharge	3,494.58	111.18
22 13 29 16-0090 EA Intermediate Guide Rail Bracket, Stainless Steel, For 2" Rail System	357.16	74.12
22 13 29 16-0091 EA Intermediate Guide Rail Bracket, Stainless Steel, For 3" Rail Systems	610.97	92.65
22 13 29 16-0092 EA Intermediate Guide Rail Bracket, Stainless Steel, For 4" Rail Systems	621.08	111.18
22 13 29 16-0093 EA 12" Stainless Steel Lifting Cable	176.33	37.06
22 13 29 16-0094 EA Disconnect Fitting For 2" Horizontal Discharge	331.33	37.06
Note: Used for shallow systems where guide rails are not necessary.		

22 13 29 33 Sewerage Pump Basins and Pits (22 13 29)**22 13 29 33-0001 Sewage Sump Pump Basin (22 13 29 33)****22 13 29 33-0002 High Density Polyethylene (HDPE) Basin (22 13 29 33-0001)**

22 13 29 33-0003 EA 18" Diameter x 24" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub	154.49	
22 13 29 33-0004 EA 18" Diameter x 30" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub	196.56	
22 13 29 33-0005 EA 24" Diameter x 30" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub	425.51	
22 13 29 33-0006 EA 24" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub	591.01	
22 13 29 33-0007 EA 30" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub	756.50	
22 13 29 33-0008 EA 36" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub	877.91	

22 13 29 33-0009 Fiberglass Basin (22 13 29 33-0001)

22 13 29 33-0010 EA 18" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub	395.23	
22 13 29 33-0011 EA 24" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub	791.98	
22 13 29 33-0012 EA 30" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub	1,413.75	
22 13 29 33-0013 EA 36" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub	1,898.71	
22 13 29 33-0014 EA 36" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub	2,186.38	
22 13 29 33-0015 EA 36" Diameter x 60" High Fiberglass Basin And Lid With Inlet And Hub	2,309.23	
22 13 29 33-0016 EA 36" Diameter x 72" High Fiberglass Basin And Lid With Inlet And Hub	2,710.64	
22 13 29 33-0017 EA 48" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub	3,146.71	

22 14 Facility Storm Drainage (22 10)**22 14 29 Sump Pumps (22 14)****22 14 29 13 Wet-Pit-Mounted, Vertical Sump Pumps (22 14 29)****22 14 29 13-0001 Vertical Mounted Sump Pumps (22 14 29 13)**

Note: Supplied with 1750 RPM premium efficient motor with drip cover, float switch assembly, steel support mounting plate and 5' column sections.

22 14 29 13-0002 EA 1 HP Vertical Mounted Cast Iron Sump Pump, 1-1/2" Discharge, Single Stage, 25 GPM 40' Head	5,239.85	394.97
For Explosion Proof Motor, Add	282.58	
22 14 29 13-0003 EA 1-1/2 HP Vertical Mounted Cast Iron Sump Pump, 2" Discharge, Single Stage, 75 GPM 40' Head	5,604.61	478.05
For Explosion Proof Motor, Add	314.15	
22 14 29 13-0004 EA 2 HP Vertical Mounted Cast Iron Sump Pump, 2-1/2" Discharge, Single Stage, 100 GPM 40' Head	6,427.46	567.94
For Explosion Proof Motor, Add	405.84	
22 14 29 13-0005 EA 3 HP Vertical Mounted Cast Iron Sump Pump, 3" Discharge, Single Stage, 150 GPM 40' Head	6,955.53	698.69
For Explosion Proof Motor, Add	459.95	
22 14 29 13-0006 EA 5 HP Vertical Mounted Cast Iron Sump Pump, 3" Discharge, Single Stage, 200 GPM 40' Head	7,368.33	757.25
For Explosion Proof Motor, Add	671.89	
22 14 29 13-0007 EA 10 HP Vertical Mounted Cast Iron Sump Pump, 4" Discharge, Single Stage, 300 GPM 70' Head	8,749.29	908.43
For Explosion Proof Motor, Add	762.07	
22 14 29 13-0008 EA 15 HP Vertical Mounted Cast Iron Sump Pump, 5" Discharge, Single Stage, 500 GPM 70' Head	10,100.95	940.91
For Explosion Proof Motor, Add	1,249.08	



Plumbing			22
Plumbing Piping			22 10
Facility Storm Drainage			22 14

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
22 14 29 13-0009	EA	20 HP Vertical Mounted Cast Iron Sump Pump, 6" Discharge, Single Stage, 800 GPM 70' Head..... <i>For Explosion Proof Motor, Add</i>	12,005.93 1,657.92	1,053.13
22 14 29 13-0010	EA	30 HP Vertical Mounted Cast Iron Sump Pump, 6" Discharge, Single Stage, 1,000 GPM 70' Head..... <i>For Explosion Proof Motor, Add</i>	13,051.62 2,149.43	1,228.21
22 14 29 13-0011	EA	50 HP Vertical Mounted Cast Iron Sump Pump, 8" Discharge, Single Stage, 1,600 GPM 70' Head..... <i>For Explosion Proof Motor, Add</i>	17,355.30 2,800.28	1,474.38
22 14 29 13-0012	EA	60 HP Vertical Mounted Cast Iron Sump Pump, 8" Discharge, Single Stage, 2,000 GPM 70' Head..... <i>For Explosion Proof Motor, Add</i>	23,653.14 4,438.65	1,637.61
22 14 29 13-0013 Extra Column Assemblies (22 14 29 13)				
22 14 29 13-0014	EA	1-1/2" Diameter x 5' Long Extra Column Assembly	755.69	
22 14 29 13-0015	EA	2" Diameter x 5' Long Extra Column Assembly	826.90	
22 14 29 13-0016	EA	2-1/2" Diameter x 5' Long Extra Column Assembly	904.82	
22 14 29 13-0017	EA	3" Diameter x 5' Long Extra Column Assembly	1,086.42	
22 14 29 13-0018	EA	4" Diameter x 5' Long Extra Column Assembly	1,214.32	
22 14 29 13-0019	EA	5" Diameter x 5' Long Extra Column Assembly	1,236.43	
22 14 29 13-0020	EA	6" Diameter x 5' Long Extra Column Assembly	1,388.02	
22 14 29 13-0021	EA	8" Diameter x 5' Long Extra Column Assembly	1,518.82	
22 14 29 13-0022 Support Plate (22 14 29 13)				
22 14 29 13-0023	EA	24" Steel Support Plate, Round Or Square.....	892.64	54.45
22 14 29 13-0024	EA	30" Steel Support Plate, Round Or Square.....	988.32	61.26
22 14 29 13-0025	EA	36" Steel Support Plate, Round Or Square.....	1,370.72	81.68
22 14 29 13-0026	EA	40" Steel Support Plate, Round Or Square.....	1,984.28	95.30
22 14 29 13-0027	EA	42" Steel Support Plate, Round Or Square.....	2,126.51	98.70
22 14 29 13-0028	EA	48" Steel Support Plate, Round Or Square.....	2,273.08	102.11
22 14 29 13-0029	EA	54" Steel Support Plate, Round Or Square.....	2,894.17	122.52
22 14 29 13-0030	EA	60" Steel Support Plate, Round Or Square.....	3,914.11	136.14
22 14 29 13-0031	EA	72" Steel Support Plate, Round Or Square.....	5,223.92	170.18
22 14 29 13-0032	EA	84" Steel Support Plate, Round Or Square.....	6,303.36	187.19
22 14 29 16 Submersible Sump Pumps (22 14 29)				
22 14 29 16-0001 Submersible Sump Pump With Vortex Impeller (22 14 29 16)				
22 14 29 16-0002 Submersible Sump Pump With Cast Iron Vortex Impeller (22 14 29 16-0001)				
22 14 29 16-0003	EA	1/3 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller	539.67	88.73
22 14 29 16-0004	EA	1/3 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller	591.10	88.73
22 14 29 16-0005	EA	1/2 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller	896.33	93.89
22 14 29 16-0006	EA	1/2 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller	977.70	93.89
22 14 29 16-0007 Submersible Sump Pump With Bronze Vortex Impeller (22 14 29 16-0001)				
Note: Includes 20' of cord with pump.				
22 14 29 16-0008	EA	1/2 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,463.68	93.89
22 14 29 16-0009	EA	1/2 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,586.30	93.89
22 14 29 16-0010	EA	1 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,670.12	103.50
22 14 29 16-0011	EA	1 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,801.22	103.50
22 14 29 16-0012	EA	1-1/2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,862.53	118.29
22 14 29 16-0013	EA	1-1/2 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,991.37	118.29
22 14 29 16-0014	EA	2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	2,008.71	140.47
22 14 29 16-0015	EA	2 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	2,120.59	140.47
22 14 29 16-0016 Submersible Sump Pump With Semi-Open Impeller (22 14 29 16)				
Note: Includes 20' of cord with pump.				
22 14 29 16-0017	EA	1/3 HP Manual Submersible Sump Pump, 115 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,295.95	88.73
22 14 29 16-0018	EA	1/3 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,336.65	88.73
22 14 29 16-0019	EA	1/2 HP Manual Submersible Sump Pump, 115 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,660.59	93.89
22 14 29 16-0020	EA	1/2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	1,689.19	93.89
22 14 29 16-0021	EA	3/4 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	2,019.73	99.07
22 14 29 16-0022	EA	3/4 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	2,019.73	99.07

22 Plumbing**22 10 Plumbing Piping****22 14 Facility Storm Drainage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 29 16-0023 EA 1 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	2,135.74	103.50
22 14 29 16-0024 EA 1 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	2,135.74	103.50
22 14 29 16-0025 EA 1-1/2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	2,437.54	118.29
22 14 29 16-0026 EA 1-1/2 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	2,437.54	118.29
22 14 29 16-0027 EA 2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	2,835.55	140.47
22 14 29 16-0028 EA 2 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller	2,786.04	140.47

22 14 29 19 Sump-Pump Basins and Pits (22 14 29)
 See CSI section 22 13 29 33-0000 for basins and pits.

END OF SECTION 22



Electrical		26
Operation and Maintenance of Electrical Systems		26 01
Operation and Maintenance of Low-Voltage Electrical Distribution		26 01 20

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

26 Electrical

Note: Termination costs are included with all electrical equipment, panel boards, fixtures and devices. Terminations are not included with patch panels. Electrical equipment and lighting shall conform to California Title 24.

26 01 Operation and Maintenance of Electrical Systems ⁽²⁶⁾

26 01 20 Operation and Maintenance of Low-Voltage Electrical Distribution ^(26 01)

26 01 20 91 Low-Voltage Electrical Distribution Restoration ^(26 01 20)

26 01 20 91-0001	Lock Out/Tag Out Devices ^(26 01 20 91)	
Note: Includes following OSHA procedures and completing Owner's paperwork. Excludes circuit tracing.		
26 01 20 91-0002	EA Lock Out/Tag Out Local Disconnect	53.44
Note: Excludes tag or padlock See CSI section 26 01 20 91-0004 for padlock, 26 01 20 91-0005 for tag(s).		
26 01 20 91-0003	EA Lock Out/Tag Out Breaker Or Motor Starter	53.44
Note: Excludes tag or padlock See CSI section 26 01 20 91-0004 for padlock, 26 01 20 91-0005 for tag(s).		
26 01 20 91-0004	EA Lock Out Padlock Device	14.85
Note: Includes the installation and removal of pad lock when required		
26 01 20 91-0005	EA Lock Out Tags	5.37
Note: Includes filling out tag information, installation and removal of identifying tags.		
26 01 20 91-0006	Existing Circuit Tracing ^(26 01 20 91)	
26 01 20 91-0007	EA Motors, Disconnects And Other Single Source Devices, Existing Circuit Tracing Per Device	30.89
26 01 20 91-0008	EA Lighting, Existing Circuit Tracing Per Circuit	30.89

26 01 30 Operation and Maintenance of Facility Electrical Power Generating and Storing Equipment ^(26 01)

26 01 30 91 Facility Electrical Power Generating and Storing Equipment Restoration ^(26 01 30)

26 01 30 91-0001	Emergency Generator Permits ^(26 01 30 91)	
26 01 30 91-0002	Air Pollution Control Board ^(26 01 30 91-0001)	
26 01 30 91-0003	EA APCD Permit To Construct And Operate Emergency Generator	4,719.83

26 01 50 Operation and Maintenance of Lighting ^(26 01)

26 01 50 51 Luminaire Relamping ^(26 01 50)

26 01 50 51-0001	Replace Lamps In Existing Fixtures ^(26 01 50 51)	
Note: Includes removal of existing lamp from fixture and installation of new lamp. Excludes disposal of hazardous lamps. See CSI section 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 51-0002	Halogen Lamps ^(26 01 50 51-0001)	
26 01 50 51-0003	EA 300 Watt, T3, Tungsten Halogen Lamp	53.39
26 01 50 51-0004	EA 500 Watt, T3, Tungsten Halogen Lamp	67.78
26 01 50 51-0005	EA 1,000 Watt, T3, Tungsten Halogen Lamp	99.71
26 01 50 51-0006	EA 60 Watt, PAR38, Halogen Lamp	28.50
26 01 50 51-0007	EA 75 Watt, PAR38, Halogen Lamp	28.50
26 01 50 51-0008	EA 90 Watt, PAR38, Halogen Lamp	27.22
26 01 50 51-0009	EA 100 Watt, PAR38, Halogen Lamp	27.22
26 01 50 51-0010	EA 60 Watt, PAR38, Halogen IR Reflective Lamp	43.66
26 01 50 51-0011	EA 67 Watt, PAR38, Halogen IR Reflective Lamp	47.95
26 01 50 51-0012	EA 70 Watt, PAR38, Halogen IR Reflective Lamp	46.84
26 01 50 51-0013	EA 90 Watt, PAR38, Halogen IR Reflective Lamp	50.12
26 01 50 51-0014	EA 100 Watt, PAR38, Halogen IR Reflective Lamp	50.81
26 01 50 51-0015	EA 12 Watt, 10 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-65-B01-12-830-10)	23.63
26 01 50 51-0016	EA 12 Watt, 20 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-20)	23.63
26 01 50 51-0017	EA 12 Watt, 25 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-25)	25.54
26 01 50 51-0018	EA 12 Watt, 36 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-36)	25.54
26 01 50 51-0019	Incandescent Lamps ^(26 01 50 51-0001)	
26 01 50 51-0020	EA 100 Watt, Frosted, Interior Incandescent Lamp	8.13
For Multiple Lamps In Fixture, Deduct		-2.42
26 01 50 51-0021	EA 150 Watt, Frosted, Interior Incandescent Lamp	9.75
For Multiple Lamps In Fixture, Deduct		-2.42
26 01 50 51-0022	EA 200 Watt, Frosted, Interior Incandescent Lamp	11.57
For Multiple Lamps In Fixture, Deduct		-2.42
26 01 50 51-0023	EA 300 Watt, PS25, Interior Incandescent Lamp	13.87
For Multiple Lamps In Fixture, Deduct		-2.42
26 01 50 51-0024	EA 60 Watt, G25, Clear, Interior Incandescent Lamp	10.77
For Multiple Lamps In Fixture, Deduct		-2.42

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0025 EA 75 Watt, R20, Interior Incandescent Lamp.....	16.49	
For Multiple Lamps In Fixture, Deduct	-2.91	
26 01 50 51-0026 EA 75 Watt, PAR38, Exterior Incandescent Lamp.....	19.70	
For Multiple Lamps In Fixture, Deduct	-2.91	
26 01 50 51-0027 EA 100 Watt, PAR38, Exterior Incandescent Lamp.....	18.42	
For Multiple Lamps In Fixture, Deduct	-2.91	
26 01 50 51-0028 EA 150 Watt, PAR38, Exterior Incandescent Lamp.....	30.61	
For Multiple Lamps In Fixture, Deduct	-2.91	
26 01 50 51-0029 EA 250 Watt, PAR38, Exterior Incandescent Lamp.....	61.60	
For Multiple Lamps In Fixture, Deduct	-3.39	
26 01 50 51-0030 EA 300 Watt, PAR56, Exterior Incandescent Lamp.....	70.54	
For Multiple Lamps In Fixture, Deduct	-3.39	
26 01 50 51-0031 Exit Light Lamps (26 01 50 51-0001)		
26 01 50 51-0032 EA Convert Exit Light Lamps To Red LED Lamps	133.09	
For Green LED Lamps, Add	25.00	
26 01 50 51-0033 EA Fluorescent Lamp For Exit Light	37.42	
For Multiple Lamps In Fixture, Deduct	-9.69	
26 01 50 51-0034 EA Lamp Replacement For Emergency Lights On Exit Sign	43.86	
For Multiple Lamps In Fixture, Deduct	-4.84	
26 01 50 51-0035 Fluorescent Lamps (26 01 50 51-0001)		
26 01 50 51-0036 EA 18", 15 Watt, T8 Fluorescent Lamp	14.69	
For Multiple Lamps In Fixture, Deduct	-3.87	
26 01 50 51-0037 EA 2', 17 Watt, T8 Fluorescent Lamp	17.24	
For Multiple Lamps In Fixture, Deduct	-3.87	
26 01 50 51-0038 EA 3', 25 Watt, T8 Fluorescent Lamp	19.76	
For Multiple Lamps In Fixture, Deduct	-4.36	
26 01 50 51-0039 EA 4', 32 Watt, T8 Fluorescent Lamp	18.89	
For Multiple Lamps In Fixture, Deduct	-4.36	
26 01 50 51-0040 EA 4', 30 Watt, T8 Fluorescent Lamp	24.16	
For Multiple Lamps In Fixture, Deduct	-4.36	
26 01 50 51-0041 EA 4', 28 Watt, T8 Fluorescent Lamp	21.48	
For Multiple Lamps In Fixture, Deduct	-4.36	
26 01 50 51-0042 EA 4', 25 Watt, T8 Fluorescent Lamp	21.37	
For Multiple Lamps In Fixture, Deduct	-4.36	
26 01 50 51-0043 EA 4', 44 Watt, T8HO Fluorescent Lamp.....	32.91	
For Multiple Lamps In Fixture, Deduct	-4.36	
26 01 50 51-0044 EA 8', 59 Watt, T8 Fluorescent Lamp	25.66	
For Multiple Lamps In Fixture, Deduct	-4.36	
26 01 50 51-0045 EA 18", 15 Watt, T12 Fluorescent Lamp	21.12	
For Multiple Lamps In Fixture, Deduct	-3.87	
26 01 50 51-0046 EA 2', 20 Watt, T12 Fluorescent Lamp	16.51	
For Multiple Lamps In Fixture, Deduct	-3.87	
26 01 50 51-0047 EA 3', 30 Watt, T12 Fluorescent Lamp	18.55	
For Multiple Lamps In Fixture, Deduct	-4.36	
26 01 50 51-0048 EA 4', 34 Watt, T12 Fluorescent Lamp	18.63	
For Multiple Lamps In Fixture, Deduct	-4.36	
26 01 50 51-0049 EA 4', 40 Watt, T12 Fluorescent Lamp	18.30	
For Multiple Lamps In Fixture, Deduct	-4.36	
26 01 50 51-0050 EA 8', 60 Watt, T12 Fluorescent Lamp	26.25	
For Multiple Lamps In Fixture, Deduct	-4.36	
26 01 50 51-0051 EA 8', 75 Watt, T12 Fluorescent Lamp	22.55	
For Multiple Lamps In Fixture, Deduct	-4.36	
26 01 50 51-0052 EA 8', 95 Watt, Instant Start T12 Fluorescent Lamp.....	33.96	
26 01 50 51-0053 EA 6" Diameter, 20 Watt, Circular T9 Fluorescent Lamp.....	21.35	
For Multiple Lamps In Fixture, Deduct	-3.87	
26 01 50 51-0054 EA 8" Diameter, 22 Watt, Circular T9 Fluorescent Lamp.....	17.94	
For Multiple Lamps In Fixture, Deduct	-3.87	
26 01 50 51-0055 EA 12" Diameter, 32 Watt, Circular T9 Fluorescent Lamp.....	17.41	
For Multiple Lamps In Fixture, Deduct	-3.87	
26 01 50 51-0056 EA 16" Diameter, 40 Watt, Circular T9 Fluorescent Lamp.....	19.04	
For Multiple Lamps In Fixture, Deduct	-3.87	
26 01 50 51-0057 EA 32 Watt, Rapid Start, U-Shaped T8 Fluorescent Lamp.....	30.63	
For Multiple Lamps In Fixture, Deduct	-4.84	
26 01 50 51-0058 EA 40 Watt, Rapid Start, U-Shaped T12 Fluorescent Lamp.....	29.62	
For Multiple Lamps In Fixture, Deduct	-4.84	
26 01 50 51-0059 EA 6", 4 Watt, T5 Fluorescent Lamp	16.07	
For Multiple Lamps In Fixture, Deduct	-3.87	
26 01 50 51-0060 EA 9", 6 Watt, T5 Fluorescent Lamp	15.84	
For Multiple Lamps In Fixture, Deduct	-3.87	
26 01 50 51-0061 EA 12", 8 Watt, T5 Fluorescent Lamp	16.28	
For Multiple Lamps In Fixture, Deduct	-3.87	
26 01 50 51-0062 EA 21", 13 Watt, T5 Fluorescent Lamp	16.93	
For Multiple Lamps In Fixture, Deduct	-3.87	
26 01 50 51-0063 EA 24", 14 Watt, T5 Fluorescent Lamp	19.19	
For Multiple Lamps In Fixture, Deduct	-3.87	
26 01 50 51-0064 EA 34", 21 Watt, T5 Fluorescent Lamp	20.95	
For Multiple Lamps In Fixture, Deduct	-4.36	
26 01 50 51-0065 EA 46", 28 Watt, T5 Fluorescent Lamp	20.37	
For Multiple Lamps In Fixture, Deduct	-4.36	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0066 EA 46", 54 Watt, T5HO Fluorescent Lamp 22.06 <i>For Multiple Lamps In Fixture, Deduct</i> .....-4.36		
26 01 50 51-0067 EA 46", 54 Watt T5 Fluorescent Lamp 19.58		
26 01 50 51-0068 EA 5-13 Watt, 2-Pin Compact Fluorescent Lamp 12.36 <i>For Multiple Lamps In Fixture, Deduct</i> .....-2.42		
26 01 50 51-0069 EA 9-26 Watt, 4-Pin Compact Fluorescent Lamp 13.54 <i>For Multiple Lamps In Fixture, Deduct</i> .....-2.42		
26 01 50 51-0070 EA 27-55 Watt, 4-Pin Compact Fluorescent Lamp 26.45 <i>For Multiple Lamps In Fixture, Deduct</i> .....-2.42		
26 01 50 51-0071 EA Compact Fluorescent 13 Watt, 4-Pin Lamps CF13DD/E/827, Dulux 34.88		
26 01 50 51-0072 EA Compact Fluorescent 18 Watt, 4-Pin Lamps CF18DD/E/827, Dulux 34.88		
26 01 50 51-0073 EA 32 Watt 2D (DoubleD) Fluorescent Lamp, 4-Pin 63.12		
26 01 50 51-0074 EA 26 Watt (1,600 Lumens) 4-pin Quad Tube PL Lamp 23.71		
26 01 50 51-0075 EA <9 Watt, Screw-In, Spiral Compact Fluorescent Lamps 12.13		
26 01 50 51-0076 EA 9 To 27 Watt, Screw-In, Spiral Compact Fluorescent Lamps 10.75		
26 01 50 51-0077 EA 29 To 32 Watt, Screw-In, Spiral Compact Fluorescent Lamps 11.18		
26 01 50 51-0078 EA 33 To 42 Watt, Screw-In, Spiral Compact Fluorescent Lamps 39.85		
26 01 50 51-0079 EA 43 To 65 Watt, Screw-In, Spiral Compact Fluorescent Lamps 43.29		
26 01 50 51-0080 EA 85 Watt, Screw-In, Spiral Compact Fluorescent Lamps 80.65		
26 01 50 51-0081 EA 105 Watt, Screw-In, Spiral Compact Fluorescent Lamps 96.21		
26 01 50 51-0082 EA 200 Watt, Screw-In, Spiral Compact Fluorescent Lamps 99.38		
26 01 50 51-0083 EA 11 Watt, Screw-In, Compact Fluorescent Reflector Lamps 37.71		
26 01 50 51-0084 EA 15 Watt, Screw-In, Compact Fluorescent Reflector Lamps 39.23		
26 01 50 51-0085 EA 20 To 28 Watt, Screw-In, Compact Fluorescent Reflector Lamps 44.93		
26 01 50 51-0086 Metal Halide Lamps (26 01 50 51-0001)		
26 01 50 51-0087 EA 50 Watt, Pulse Start Metal Halide Lamp 52.87		
26 01 50 51-0088 EA 70 Watt, Pulse Start Metal Halide Lamp 50.78		
26 01 50 51-0089 EA 100 Watt, Pulse Start Metal Halide Lamp 57.38		
26 01 50 51-0090 EA 150 Watt, Pulse Start Metal Halide Lamp 55.88		
26 01 50 51-0091 EA 175 Watt, Pulse Start Metal Halide Lamp 55.45		
26 01 50 51-0092 EA 250 Watt, Pulse Start Metal Halide Lamp 55.75		
26 01 50 51-0093 EA 400 Watt, Pulse Start Metal Halide Lamp 66.27		
26 01 50 51-0094 EA 1,000 Watt, Pulse Start Metal Halide Lamp 76.36		
26 01 50 51-0095 EA 1,500 Watt, Pulse Start Metal Halide Lamp 75.94		
26 01 50 51-0096 High Pressure Sodium Lamps (26 01 50 51-0001)		
26 01 50 51-0097 EA 35 Watt, High Pressure Sodium Lamp 44.36 <i>For Enclosed And Gasket Light Fixtures, Add</i> 3.73		
26 01 50 51-0098 EA 50 Watt, High Pressure Sodium Lamp 44.36 <i>For Enclosed And Gasket Light Fixtures, Add</i> 3.73		
26 01 50 51-0099 EA 70 Watt, High Pressure Sodium Lamp 45.26 <i>For Enclosed And Gasket Light Fixtures, Add</i> 3.73		
26 01 50 51-0100 EA 100 Watt, High Pressure Sodium Lamp 46.98 <i>For Enclosed And Gasket Light Fixtures, Add</i> 3.73		
26 01 50 51-0101 EA 150 Watt, High Pressure Sodium Lamp 45.26 <i>For Enclosed And Gasket Light Fixtures, Add</i> 3.73		
26 01 50 51-0102 EA 250 Watt, High Pressure Sodium Lamp 45.26 <i>For Enclosed And Gasket Light Fixtures, Add</i> 3.73		
26 01 50 51-0103 EA 400 Watt, High Pressure Sodium Lamp 42.71 <i>For Enclosed And Gasket Light Fixtures, Add</i> 3.73		
26 01 50 51-0104 EA 1,000 Watt, High Pressure Sodium Lamp 94.23		
26 01 50 51-0105 Low Pressure Sodium Lamps (26 01 50 51-0001)		
26 01 50 51-0106 EA 35 Watt, Low Pressure Sodium Lamp 106.34		
26 01 50 51-0107 EA 55 Watt, Low Pressure Sodium Lamp 118.18		
26 01 50 51-0108 EA 70 Watt, Low Pressure Sodium Lamp 120.84		
26 01 50 51-0109 EA 90 Watt, Low Pressure Sodium Lamp 123.51		
26 01 50 51-0110 EA 135 Watt, Low Pressure Sodium Lamp 134.17		
26 01 50 51-0111 EA 180 Watt, Low Pressure Sodium Lamp 182.16		
26 01 50 51-0112 LED Lamps (26 01 50 51-0001)		
26 01 50 51-0113 LED Lamps, Candelabra Base, CA10 (26 01 50 51-0112)		
26 01 50 51-0114 EA 3 Watt (25 Watt Incandescent Equivalent), Candelabra Base, CA10, Dimmable LED Lamp (Energy Star) 17.58		
26 01 50 51-0115 LED Lamps, Medium Base, A19 Or A21 (26 01 50 51-0112)		
26 01 50 51-0116 EA 6 Watt (40 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star) 22.81		
26 01 50 51-0117 EA 11 Watt (60 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star) 22.81		
26 01 50 51-0118 EA 14 Watt (75 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star) 36.87		
26 01 50 51-0119 EA 17 Watt (75 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star) 26.36		
26 01 50 51-0120 EA 18 Watt (100 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star) 45.65		
26 01 50 51-0121 LED Lamps, Medium Base, BR30 Or BR40 (26 01 50 51-0112)		
26 01 50 51-0122 EA 9.5 Watt (65 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star) 31.10		

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0123 EA 14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star).....	28.13	
26 01 50 51-0124 EA 11 Watt (65 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star).....	36.02	
26 01 50 51-0125 EA 14.5 Watt (75 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star).....	30.76	
26 01 50 51-0126 EA 14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star).....	39.53	
26 01 50 51-0127 EA 18 Watt (90 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star).....	30.76	
26 01 50 51-0128 LED Lamps, Medium Base, PAR (26 01 50 51-0112)		
26 01 50 51-0129 EA 7 Watt (45 Watt Halogen Equivalent), Medium Base, PAR20, Dimmable LED Lamp (Energy Star).....	33.91	
26 01 50 51-0130 EA 12 Watt (60 Watt Halogen Equivalent), Medium Base, Short Neck Par30, Dimmable LED Lamp (Energy Star).....	44.82	
26 01 50 51-0131 EA 16.3 Watt (65 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star).....	44.82	
26 01 50 51-0132 EA 15.6 Watt (70 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star).....	43.06	
26 01 50 51-0133 EA 12 Watt (50 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star).....	41.30	
26 01 50 51-0134 EA 15 Watt (75 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star).....	41.30	
26 01 50 51-0135 EA 18 Watt (90 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star).....	76.80	
26 01 50 51-0136 EA 15 Watt (75 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star).....	44.82	
26 01 50 51-0137 EA 18 Watt (90 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star).....	43.06	
26 01 50 51-0138 EA 19 Watt (120 Watt Halogen Equivalent), Medium Base, Par38, Dimmable LED Lamp (Energy Star).....	44.82	
26 01 50 51-0139 EA 24 Watt (120 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star).....	44.82	
26 01 50 51-0140 LED Lamps, GU Base, MR16 (26 01 50 51-0112)		
26 01 50 51-0141 EA 4 Watt (20 Watt Halogen Equivalent), GU5.3 Base, MR16, LED Lamp (Energy Star).....	24.61	
26 01 50 51-0142 EA 6 Watt (30 Watt Halogen Equivalent), GU10 Base, MR16, Dimmable LED Lamp (Energy Star).....	31.10	
26 01 50 51-0143 EA 8 Watt (50 Watt Halogen Equivalent), GU5.3 Base, MR16, Dimmable LED Lamp (Energy Star).....	33.91	
26 01 50 51-0144 LED Lamps, PL Series (26 01 50 51-0112)		
26 01 50 51-0145 EA 3.5 Watt, 2-Pin CFL G23 Base, Hybrid Lamp (GreenCreative PLS 3.5 HYB G23).....	17.25	
26 01 50 51-0146 EA 26 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/827/DIR).....	23.34	
26 01 50 51-0147 EA 26 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/830/DIR).....	20.49	
26 01 50 51-0148 EA 26 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/835/DIR).....	22.27	
26 01 50 51-0149 EA 26 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/840/DIR).....	22.27	
26 01 50 51-0150 EA 26 Watt, 3000K CCT, High CRI, PL EDGE DiRect Series (Green Creative 10.5PLH/930/DIR).....	25.48	
26 01 50 51-0151 EA 13-18 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/827/DIR).....	22.27	
26 01 50 51-0152 EA 13-18 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/830/DIR).....	22.27	
26 01 50 51-0153 EA 13-18 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/835/DIR).....	22.27	
26 01 50 51-0154 EA 13-18 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/840/DIR).....	22.27	
26 01 50 51-0155 EA 26 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 10PLV/827/DIR).....	24.41	
26 01 50 51-0156 EA 26 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 10PLV/830/DIR).....	24.41	
26 01 50 51-0157 EA 26 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 10PLV/835/DIR).....	24.41	
26 01 50 51-0158 EA 26 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 10PLV/840/DIR).....	24.41	
26 01 50 51-0159 EA 26 Watt, 3000K CCT, High CRI, PL EDGE DiRect Series (Green Creative 11PLV/930/DIR).....	23.34	
26 01 50 51-0160 EA 13-18 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/827/DIR).....	23.34	
26 01 50 51-0161 EA 13-18 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/830/DIR).....	23.34	
26 01 50 51-0162 EA 13-18 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/835/DIR).....	24.06	
26 01 50 51-0163 EA 13-18 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/840/DIR).....	24.06	
26 01 50 51-0164 EA 26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/827/BYP).....	24.21	
26 01 50 51-0165 EA 26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/830/BYP).....	24.21	
26 01 50 51-0166 EA 26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/835/BYP).....	24.21	
26 01 50 51-0167 EA 26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/840/BYP).....	24.21	
26 01 50 51-0168 EA 13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP).....	24.77	
26 01 50 51-0169 EA 13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP).....	24.77	
26 01 50 51-0170 EA 13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/E26).....	24.77	
26 01 50 51-0171 EA 13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/E26).....	24.77	
26 01 50 51-0172 EA 13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/E26).....	24.77	
26 01 50 51-0173 EA 13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/GU24).....	24.77	
26 01 50 51-0174 EA 13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/GU24).....	24.77	
26 01 50 51-0175 EA 13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/GU24).....	24.77	
26 01 50 51-0176 EA 26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/827/BYP).....	30.35	
26 01 50 51-0177 EA 26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/830/BYP).....	30.35	
26 01 50 51-0178 EA 26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/835/BYP).....	30.35	
26 01 50 51-0179 EA 26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/840/BYP).....	29.06	
26 01 50 51-0180 EA 13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 7PLV/835/BYP).....	29.06	
26 01 50 51-0181 EA 13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 7PLV/840/BYP).....	29.06	
26 01 50 51-0182 EA 4 Pin, 6 Watt, 560 Lumens 4000K CCT, Horizontal Mount LED PL Lamp (Green Creative 57898).....	27.03	
26 01 50 51-0183 HID LED Lamps, Medium Base E26 (26 01 50 51-0112)		
26 01 50 51-0184 EA 27 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/840/277V/E26).....	53.69	
26 01 50 51-0185 EA 27 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/850/277V/E26).....	53.69	
26 01 50 51-0186 EA 45 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 45HID/840/277V/E26).....	66.90	
26 01 50 51-0187 EA 45 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 45HID/850/277V/E26).....	66.90	
26 01 50 51-0188 EA 10 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-3026).....	50.88	
26 01 50 51-0189 EA 10 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-4026).....	50.88	
26 01 50 51-0190 EA 10 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-5026).....	50.88	
26 01 50 51-0191 EA 10 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-6026).....	50.88	
26 01 50 51-0192 EA 15 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-3026).....	52.31	
26 01 50 51-0193 EA 15 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-4026).....	52.31	
26 01 50 51-0194 EA 15 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-5026).....	52.31	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0195	EA	15 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-6026)	52.31	
26 01 50 51-0196	EA	20 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-3026)	58.02	
26 01 50 51-0197	EA	20 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-4026)	58.02	
26 01 50 51-0198	EA	20 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-5026)	58.02	
26 01 50 51-0199	EA	20 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-6026)	58.02	
26 01 50 51-0200	EA	25 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-3026)	65.16	
26 01 50 51-0201	EA	25 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-4026)	65.16	
26 01 50 51-0202	EA	25 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-5026)	65.16	
26 01 50 51-0203	EA	25 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-6026)	65.16	
26 01 50 51-0204	EA	30 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-3026)	80.87	
26 01 50 51-0205	EA	30 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-4026)	80.87	
26 01 50 51-0206	EA	30 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-5026)	80.87	
26 01 50 51-0207	EA	30 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-6026)	80.87	
26 01 50 51-0208	EA	40 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-3026)	94.44	
26 01 50 51-0209	EA	40 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-4026)	94.44	
26 01 50 51-0210	EA	40 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-5026)	94.44	
26 01 50 51-0211	EA	40 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-6026)	94.44	
26 01 50 51-0212	EA	60 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-3026)	103.72	
26 01 50 51-0213	EA	60 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-4026)	103.72	
26 01 50 51-0214	EA	60 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-5026)	103.72	
26 01 50 51-0215	EA	60 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-6026)	103.72	
26 01 50 51-0216	EA	80 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-3026)	137.28	
26 01 50 51-0217	EA	80 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-4026)	137.28	
26 01 50 51-0218	EA	80 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-5026)	137.28	
26 01 50 51-0219	EA	80 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-6026)	137.28	
26 01 50 51-0220	EA	100 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-3026)	141.56	
26 01 50 51-0221	EA	100 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-4026)	141.56	
26 01 50 51-0222	EA	100 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-5026)	141.56	
26 01 50 51-0223	EA	100 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-6026)	141.56	
26 01 50 51-0224	EA	120 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-3026)	166.55	
26 01 50 51-0225	EA	120 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-4026)	166.55	
26 01 50 51-0226	EA	120 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-5026)	166.55	
26 01 50 51-0227	EA	120 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-6026)	166.55	
26 01 50 51-0228	EA	150 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-3026)	196.54	
26 01 50 51-0229	EA	150 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-4026)	196.54	
26 01 50 51-0230	EA	150 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-5026)	196.54	
26 01 50 51-0231	EA	150 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-6026)	196.54	
26 01 50 51-0232	EA	20 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED20WPT40KMED-G6)	65.45	
26 01 50 51-0233	EA	20 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED20WPT50KMED-G6)	70.44	
26 01 50 51-0234	EA	27 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED27WPT40KMED-G5)	70.44	
26 01 50 51-0235	EA	27 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED27WPT50KMED-G5)	65.45	
26 01 50 51-0236	EA	36 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED36WPT40KMED-G5)	81.15	
26 01 50 51-0237	EA	36 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED36WPT50KMED-G5)	74.73	
26 01 50 51-0238	EA	45 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED45WPT40KMED-G5)	89.01	
26 01 50 51-0239	EA	45 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED45WPT50KMED-G5)	88.17	
26 01 50 51-0240	EA	54 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED54WPT40KMED-G5)	90.08	
26 01 50 51-0241	EA	54 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EiKO industries LED54WPT50KMED-G5)	90.08	
26 01 50 51-0242	EA	27 Watt, 4000K CCT, Medium Base E26, LED Lamp (EiKO industries LED27WPT40KMED-G7)	56.19	
26 01 50 51-0243	EA	27 Watt, 5000K CCT, Medium Base E26, LED Lamp (EiKO industries LED27WPT50KMED-G7)	56.19	
26 01 50 51-0244	EA	36 Watt, 4000K CCT, Medium Base E26, LED Lamp (EiKO industries LED36WPT40KMED-G7)	62.79	
26 01 50 51-0245	EA	36 Watt, 5000K CCT, Medium Base E26, LED Lamp (EiKO industries LED36WPT50KMED-G7)	62.79	
26 01 50 51-0246	EA	45 Watt, 4000K CCT, Medium Base E26, LED Lamp (EiKO industries LED45WPT40KMED-G7)	67.18	
26 01 50 51-0247	EA	45 Watt, 5000K CCT, Medium Base E26, LED Lamp (EiKO industries LED45WPT50KMED-G7)	67.18	
26 01 50 51-0248	EA	54 Watt, 4000K CCT, Medium Base E26, LED Lamp (EiKO industries LED54WPT40KMED-G7)	73.78	
26 01 50 51-0249	EA	54 Watt, 5000K CCT, Medium Base E26, LED Lamp (EiKO industries LED54WPT50KMED-G7)	73.78	
26 01 50 51-0250	EA	20 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-20W8-55K-E26)	74.12	
26 01 50 51-0251	EA	30 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-30W8-55K-E26)	79.98	
26 01 50 51-0252	EA	40 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-40W8-55K-E26)	98.47	
26 01 50 51-0253	EA	50 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-50W8-55K-E26)	108.04	
26 01 50 51-0254	EA	10 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-10W12-55K-E26)	44.99	
26 01 50 51-0255	EA	15 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-15W12-55K-E26)	50.13	
26 01 50 51-0256	EA	20 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-20W12-55K-E26)	52.70	
26 01 50 51-0257	EA	25 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-25W12-55K-E26)	57.49	
26 01 50 51-0258	EA	15 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148015-UNV)	68.28	
26 01 50 51-0259	EA	20 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148020-UNV)	79.27	
26 01 50 51-0260	EA	25 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148025-UNV)	106.73	
26 01 50 51-0261	EA	30 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148030-UNV)	112.22	
26 01 50 51-0262	EA	35 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148035-UNV)	121.01	
26 01 50 51-0263	EA	40 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148040-UNV)	126.50	
26 01 50 51-0264	EA	60 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Neptun LED-N148060-UNV)	180.33	
26 01 50 51-0265	EA	20 Watt, 5000K CCT, 120-277 Volt, E26 (Medium) Base, LED Retrofit Omni-Directional Lamp (HYLITE HL-IOD-20W-E26-50K)	71.72	
26 01 50 51-0266		HID LED Lamps, Mogul Base E39 Or EX39 (26 01 50 51-0112)		
26 01 50 51-0267	EA	120 Watt, 2700K CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/827/277V/EX39)	174.01	
26 01 50 51-0268	EA	120 Watt, 5000K CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/850/277V/EX39)	174.01	
26 01 50 51-0269	EA	120 Watt, 5700 CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/857/277V/EX39)	174.01	
26 01 50 51-0270	EA	27 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/830/277V/EX39)	53.69	
26 01 50 51-0271	EA	27 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/840/277V/EX39/R)	53.69	
26 01 50 51-0272	EA	27 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/850/277V/EX39)	53.69	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0273 EA 45 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/830/277V/EX39).....	66.90	
26 01 50 51-0274 EA 45 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/840/277V/EX39/R).....	66.90	
26 01 50 51-0275 EA 45 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/850/277V/EX39).....	66.90	
26 01 50 51-0276 EA 80 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 80HID/850/277V/EX39).....	120.45	
26 01 50 51-0277 EA 80 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-3039).....	137.28	
26 01 50 51-0278 EA 80 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-4039).....	137.28	
26 01 50 51-0279 EA 80 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-5039).....	137.28	
26 01 50 51-0280 EA 80 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-6039).....	137.28	
26 01 50 51-0281 EA 100 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-3039).....	141.56	
26 01 50 51-0282 EA 100 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-4039).....	141.56	
26 01 50 51-0283 EA 100 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-5039).....	141.56	
26 01 50 51-0284 EA 100 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-6039).....	141.56	
26 01 50 51-0285 EA 120 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-3039).....	166.55	
26 01 50 51-0286 EA 120 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-4039).....	166.55	
26 01 50 51-0287 EA 120 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-5039).....	166.55	
26 01 50 51-0288 EA 120 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-6039).....	166.55	
26 01 50 51-0289 EA 150 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-3039).....	196.54	
26 01 50 51-0290 EA 150 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-4039).....	196.54	
26 01 50 51-0291 EA 150 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-5039).....	196.54	
26 01 50 51-0292 EA 150 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-6039).....	196.54	
26 01 50 51-0293 EA 27 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED27WPT40KMOG-G5).....	70.44	
26 01 50 51-0294 EA 27 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED27WPT50KMOG-G5).....	70.44	
26 01 50 51-0295 EA 36 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED36WPT40KMOG-G5).....	81.15	
26 01 50 51-0296 EA 36 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED36WPT50KMOG-G5).....	80.17	
26 01 50 51-0297 EA 45 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED45WPT40KMOG-G5).....	89.01	
26 01 50 51-0298 EA 45 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED45WPT50KMOG-G5).....	88.17	
26 01 50 51-0299 EA 54 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED54WPT40KMOG-G5).....	90.08	
26 01 50 51-0300 EA 54 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED54WPT50KMOG-G5).....	87.59	
26 01 50 51-0301 EA 100 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED100WPT40KMOG-G5).....	184.68	
26 01 50 51-0302 EA 20 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED20WPT/180/40KMOG-G7).....	70.42	
26 01 50 51-0303 EA 20 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED20WPT/180/50KMOG-G7).....	70.42	
26 01 50 51-0304 EA 30 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED30WPT/180/40KMOG-G7).....	79.30	
26 01 50 51-0305 EA 30 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED30WPT/180/50KMOG-G7).....	79.30	
26 01 50 51-0306 EA 40 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED40WPT/180/40KMOG-G7).....	84.65	
26 01 50 51-0307 EA 40 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED40WPT/180/50KMOG-G7).....	84.65	
26 01 50 51-0308 EA 27 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED27WPT40KMOG-G7).....	56.10	
26 01 50 51-0309 EA 27 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED27WPT50KMOG-G7).....	56.10	
26 01 50 51-0310 EA 36 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED36WPT40KMOG-G7).....	62.79	
26 01 50 51-0311 EA 36 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED36WPT50KMOG-G7).....	62.79	
26 01 50 51-0312 EA 45 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED45WPT40KMOG-G7).....	67.18	
26 01 50 51-0313 EA 45 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED45WPT50KMOG-G7).....	67.18	
26 01 50 51-0314 EA 54 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED54WPT40KMOG-G7).....	73.78	
26 01 50 51-0315 EA 54 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED54WPT50KMOG-G7).....	73.78	
26 01 50 51-0316 EA 65 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-65W8-55K-E39).....	129.38	
26 01 50 51-0317 EA 80 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-80W8-55K-E39).....	148.95	
26 01 50 51-0318 EA 100 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-100W8-55K-E39).....	176.79	
26 01 50 51-0319 EA 120 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-120W8-55K-E39).....	340.77	
26 01 50 51-0320 EA 150 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-150W8-55K-E39).....	322.04	
26 01 50 51-0321 EA 200 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-200W8-55K-E39).....	340.77	
26 01 50 51-0322 EA 250 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-250W8-55K-E39).....	342.23	
26 01 50 51-0323 EA 24 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M30-A).....	55.77	
26 01 50 51-0324 EA 24 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M40-A).....	55.77	
26 01 50 51-0325 EA 24 Watt, 5700K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M57-A).....	55.77	
26 01 50 51-0326 EA 100 Watt, Mogul Base E39, LED Area Lamp (MaxLite AR100LED50).....	159.34	
26 01 50 51-0327 EA 115 Watt, 4000K CCT, Mogul Base EX39, HID LED Lamp (Keystone KT-LED115HID-V-EX39-840-D).....	396.70	
26 01 50 51-0328 EA 40 Watt, 120-277 Volt, 5000K CCT, E39 Base, LED Arc-Cob Lamp (HYLITE HL-AC-40W-E39-50K).....	183.67	
26 01 50 51-0329 EA 100 Watt, 480 Volt, 5000K CCT, E39 Base, LED Omni-Cob Lamp (HYLITE HL-OC-100W-E39-50K).....	215.67	
26 01 50 51-0330 EA 45 Watt, 120-277 Volt, 5000K CCT, E39 Base, LED Omni-Cob Lamp (HYLITE HL-OC-45W-E39-50K).....	97.31	
26 01 50 51-0331 EA 40 Watt, 5680 Lumens, Mogul Base E39, LED Directional Flood Lamp (HYLITE HL-IDL-40W-E39-50K).....	279.18	
26 01 50 51-0332 LED Lamps, 2G11 Base (26 01 50 51-0112)		
26 01 50 51-0333 EA 19 Watt, 1550 Lumens, 3500K CCT, 2G11 Base, Dimmable LED Lamp (Green Creative 14.5PLL/835/DIR).....	47.88	
26 01 50 51-0334 LED Lamps, GX23 Or G23 Base (26 01 50 51-0112)		
26 01 50 51-0335 EA 5 Watt, 580 Lumens, 2 Pin GX23 Base, Dimmable LED Lamp (Lunera HN-H-GX23-U-5W-840-G4).....	24.44	
26 01 50 51-0336 LED Lamps, G24 Base (26 01 50 51-0112)		
26 01 50 51-0337 EA 5.5 Watt, 500 Lumens, G24 Base, LED Lamp (Green Creative 5.5PLH/835/DIR/R).....	31.23	
26 01 50 51-0338 LED Tubes (Fluorescent Lamp Replacement) (26 01 50 51-0112)		
26 01 50 51-0339 EA 2', 1,250 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24IN-4000K).....	42.90	
For Multiple Lamps In Fixture, Deduct	-3.87	
26 01 50 51-0340 EA 2', 1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24INU-4000K).....	55.15	
For Multiple Lamps In Fixture, Deduct	-3.87	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0341	EA	3', 1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-36IN-4000K).....	46.19	
		For Multiple Lamps In Fixture, Deduct.....	-4.12	
26 01 50 51-0342	EA	4', 1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-48IN-4000K).....	50.49	
		For Multiple Lamps In Fixture, Deduct.....	-4.36	
26 01 50 51-0343	EA	4', 2,200 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2HO-T8-48IN-4000K).....	55.09	
		For Multiple Lamps In Fixture, Deduct.....	-4.36	
26 01 50 51-0344	EA	4', 2,539 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Carson Technology CT-D02018TBN).....	35.44	
		For Multiple Lamps In Fixture, Deduct.....	-4.36	
26 01 50 51-0345	EA	2', 1,348 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Carson Technology CT-D02010TBN).....	33.97	
		For Multiple Lamps In Fixture, Deduct.....	-3.87	
26 01 50 51-0346	EA	2', 1,100 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED9T8/L24/FG/835/BF).....	31.13	
		For Multiple Lamps In Fixture, Deduct.....	-3.87	
26 01 50 51-0347	EA	3', 1,650 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED12T8/L36/FG/835/BF).....	31.78	
		For Multiple Lamps In Fixture, Deduct.....	-4.12	
26 01 50 51-0348	EA	4', 1,700 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED14T8/L48/FG/835/BF).....	31.92	
		For Multiple Lamps In Fixture, Deduct.....	-4.36	
26 01 50 51-0349	EA	4', 2,100 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED17T8/L48/FG/835/BF).....	33.00	
		For Multiple Lamps In Fixture, Deduct.....	-4.36	
26 01 50 51-0350		Filament LED Lamps (26 01 50 51-0112)		
26 01 50 51-0351	EA	7.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 7.5FA19DIM/827).....	18.80	
26 01 50 51-0352	EA	4.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 4.5A19DIM/827/R).....	18.80	
26 01 50 51-0353	EA	4.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 4.5FA19DIM/827).....	18.08	
26 01 50 51-0354	EA	4.5 Watt, 2400 CCT, Amber A19 Filament LED Lamp (Green Creative 4.5FA19DIM/824/A).....	18.08	
26 01 50 51-0355	EA	4.5 Watt, 2700K CCT, Clear G25 Globe Filament LED Lamp (Green Creative 4.5FG25DIM/827).....	19.23	
26 01 50 51-0356	EA	4.5 Watt, 2400 CCT, Amber G25 Globe Filament LED Lamp (Green Creative 4.5FG25DIM/824/A).....	19.23	
26 01 50 51-0357	EA	3.5 Watt, 2700K CCT, Clear B10 Candle Filament LED Lamp (Green Creative 3.5FB10DIM/827).....	16.66	
26 01 50 51-0358	EA	3.5 Watt, 2700K CCT, Clear B11 Candle Filament LED Lamp (Green Creative 3.5FB11DIM/827/E26).....	16.66	
26 01 50 51-0359	EA	3.5 Watt, 2400 CCT, Amber B10 Candle Filament LED Lamp (Green Creative 3.5FBA10DIM/824/FT/A).....	17.09	
26 01 50 51-0360	EA	3.5 Watt, 2400 CCT, Amber ST19 Filament LED Lamp (Green Creative 5FST19DIM/824/A).....	20.23	
26 01 50 51-0361	EA	4.5 Watt, 120 Volt 450 Lumens ULTRA LED Filament Lamp (Sylvania 79521).....	23.74	
26 01 50 51-0362		Other Lamps (26 01 50 51-0112)		
26 01 50 51-0363	EA	8 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 8A19/END/2700 DIM 6/1).....	17.97	
26 01 50 51-0364	EA	8 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 7A19/2700 DIM).....	17.97	
26 01 50 51-0365	EA	11 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 11A19/2700 DIM).....	17.97	
26 01 50 51-0366	EA	12 Watt, Medium Base, Dimmable BR40 LED Lamp (Philips 12BR40/F90 2700 DIM AF 6/1).....	18.68	
26 01 50 51-0367	EA	13 Watt, Medium Base, Dimmable PAR38 LED Single Optic Lamp (Philips 13PAR38/S15 4000 DIM AF SO 6/1).....	18.68	
26 01 50 51-0368	EA	8 Watt, Medium Base, Dimmable PAR20 LED Lamp (Philips 8PAR20/END/F36 3000 DIM 6/1).....	18.68	
26 01 50 51-0369		Recycle Hazardous Lamps (26 01 50 51) Note: Includes containers, shipping costs and recycling fees. Excludes lamp removal. See CSI section 26 01 50 51-0001 for removal of lamps from fixtures.		
26 01 50 51-0370	EA	Recycle 2' Length Linear Fluorescent Lamps.....	0.45	
26 01 50 51-0371	EA	Recycle 3' Length Linear Fluorescent Lamps.....	0.68	
26 01 50 51-0372	EA	Recycle 4' Length Linear Fluorescent Lamps.....	0.90	
26 01 50 51-0373	EA	Recycle 6' Length Linear Fluorescent Lamps.....	1.36	
26 01 50 51-0374	EA	Recycle 8' Length Linear Fluorescent Lamps.....	1.81	
26 01 50 51-0375	EA	Recycle Compact Fluorescent Lamps.....	0.81	
26 01 50 51-0376	EA	Recycle U-Shaped Or Circular Fluorescent Lamps.....	0.81	
26 01 50 51-0377	EA	Recycle High Intensity Discharge (HID) Lamps.....	2.82	
26 01 50 52		Ballasts Replacement (26 01 50)		
26 01 50 52-0001		Retrofit For Existing Ballasts, In Place (26 01 50 52) Note: Excludes ballast removal or recycling fees.		
26 01 50 52-0002		Instant Start Ballast (26 01 50 52-0001)		
26 01 50 52-0003	EA	Instant Start Ballast, 1 Lamp, Low Power; General Electric (UltraMax); GE-132-MAX-L/Ultra.....	103.95	
26 01 50 52-0004	EA	Instant Start Ballast, 1 Lamp, Low Power; Sylvania (High Efficiency); QHE 1x32T8/UNV ISL-SC.....	107.35	
26 01 50 52-0005	EA	Instant Start Ballast, 1 Lamp, Low Power; General Electric (Professional); QTP1X32T8/UNV ISL-SC.....	100.30	
26 01 50 52-0006	EA	Instant Start Ballast, 1 Lamp, Normal Power; General Electric (UltraMax); GE-132-MAX-N/Ultra.....	103.95	
26 01 50 52-0007	EA	Instant Start Ballast, 1 Lamp, Normal Power; Sylvania (High Efficiency); QHE 1x32T8/UNV ISN-SC.....	102.08	
26 01 50 52-0008	EA	Instant Start Ballast, 1 Lamp, Normal Power; Sylvania (Professional); QTP1X32T8/UNV ISN-SC.....	100.29	
26 01 50 52-0009	EA	Instant Start Ballast, 1 Lamp, High Power; Advance (Standard); REL-1P32-HL-SC.....	105.79	
26 01 50 52-0010	EA	Instant Start Ballast, 1 Lamp, High Power; Sylvania (High Efficiency); QHE 1X32T8/UNV ISH-SC.....	118.01	
26 01 50 52-0011	EA	Instant Start Ballast, 1 Lamp, High Power; Sylvania (Professional); QTP1X32T8/UNV ISH-SC.....	114.43	
26 01 50 52-0012	EA	Instant Start Ballast, 2 Lamp, Low Power; Advance (Optanium); ROP-2P32-LW-SC.....	103.95	
26 01 50 52-0013	EA	Instant Start Ballast, 2 Lamp, Low Power; General Electric (UltraMax); GE-232-MAX-L/Ultra.....	108.84	
26 01 50 52-0014	EA	Instant Start Ballast, 2 Lamp, Low Power; Sylvania (High Efficiency); QHE 2x32T8/UNV ISL-SC.....	107.35	
26 01 50 52-0015	EA	Instant Start Ballast, 2 Lamp, Normal Power; Advance (Optanium); ROP-2P32-SC.....	108.84	
26 01 50 52-0016	EA	Instant Start Ballast, 2 Lamp, Normal Power; General Electric (UltraMax); GE-232-MAX-N/Ultra.....	108.84	
26 01 50 52-0017	EA	Instant Start Ballast, 2 Lamp, Normal Power; Sylvania (High Efficiency); QHE 2x32T8/UNV ISN-SC.....	107.35	
26 01 50 52-0018	EA	Instant Start Ballast, 2 Lamp, High Power; Advance (Standard); REL-2P32-HL-SC.....	118.18	
26 01 50 52-0019	EA	Instant Start Ballast, 2 Lamp, High Power; General Electric (UltraMax); GE-232-MAX-H/Ultra.....	111.29	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0020 EA Instant Start Ballast, 2 Lamp, High Power; Sylvania (High Efficiency); QHE 2X32T8/UNV ISH-SC	118.01	
26 01 50 52-0021 EA Instant Start Ballast, 3 Lamp, Low Power; Advance (Optanium); ROP-3P32-LW-SC	111.29	
26 01 50 52-0022 EA Instant Start Ballast, 3 Lamp, Low Power; General Electric (UltraMax); GE-332-MAX-L/Ultra	111.29	
26 01 50 52-0023 EA Instant Start Ballast, 3 Lamp, Low Power; Sylvania (High Efficiency); QHE 3x32T8/UNV ISL-SC	118.93	
26 01 50 52-0024 EA Instant Start Ballast, 3 Lamp, Normal Power; Advance (Optanium); ROP-3P32-SC	111.29	
26 01 50 52-0025 EA Instant Start Ballast, 3 Lamp, Normal Power; General Electric (UltraMax); GE-332-MAX-N/Ultra	111.29	
26 01 50 52-0026 EA Instant Start Ballast, 3 Lamp, Normal Power; Sylvania (High Efficiency); QHE 3x32T8/UNV ISN-SC	118.93	
26 01 50 52-0027 EA Instant Start Ballast, 3 Lamp, High Power; Advance (Optanium); REL-3P32-HL-SC	118.40	
26 01 50 52-0028 EA Instant Start Ballast, 3 Lamp, High Power; General Electric (UltraMax); GE-332-MAX-H/Ultra	113.62	
26 01 50 52-0029 EA Instant Start Ballast, 3 Lamp, High Power; Sylvania (High Efficiency); QHE 3X32T8/UNV ISH-SC	129.99	
26 01 50 52-0030 EA Instant Start Ballast, 4 Lamp, Low Power; Advance (Optanium); ROP-4P32-LW-SC	108.29	
26 01 50 52-0031 EA Instant Start Ballast, 4 Lamp, Low Power; Sylvania (High Efficiency); QHE 4x32T8/UNV ISL-SC	122.72	
26 01 50 52-0032 EA Instant Start Ballast, 4 Lamp, Low Power; Sylvania (Professional) QTP4X32T8/UNV ISL-SC	115.67	
26 01 50 52-0033 EA Instant Start Ballast, 4 Lamp, Normal Power; Advance (Optanium); ROP-4P32-SC	114.56	
26 01 50 52-0034 EA Instant Start Ballast, 4 Lamp, Normal Power; General Electric (UltraMax); GE-432-MAX-N/Ultra	116.07	
26 01 50 52-0035 EA Instant Start Ballast, 4 Lamp, Normal Power; Sylvania (High Efficiency); QHE 4x32T8/UNV ISN-SC	122.72	
26 01 50 52-0036 EA Instant Start Ballast, 4 Lamp, High Power; Advance (Optanium); ROP-4P32-HL-90C	132.07	
26 01 50 52-0037 EA Instant Start Ballast, 4 Lamp, High Power; General Electric (UltraMax); GE-432-MAX-H/Ultra	113.62	
26 01 50 52-0038 EA Instant Start Ballast, 4 Lamp, High Power; Sylvania (High Efficiency); QHE 4X32T8/UNV ISH-SC	131.22	
26 01 50 52-0039 Program Rapid Start Ballast (26 01 50 52-0001)		
26 01 50 52-0040 EA Program Rapid Start Ballast, 1 Lamp, Normal Power; Sylvania (Quicktronic PROStart); QTP 1X32T8/UNV PSN-TC	127.54	
26 01 50 52-0041 EA Program Rapid Start Ballast, 2 Lamp, Normal Power; Advance (Optanium); IOP-2S32-SC	128.30	
26 01 50 52-0042 EA Program Rapid Start Ballast, 2 Lamp, Normal Power; General Electric (UltraStart); GE-232-120-PS-N	133.97	
26 01 50 52-0043 EA Program Rapid Start Ballast, 2 Lamp, Normal Power; Sylvania (Quicktronic PROStart); QTP 2X32T8/UNV PSN-TC	127.54	
26 01 50 52-0044 EA Program Rapid Start Ballast, 3 Lamp, Normal Power; Sylvania (Quicktronic PROStart); QTP 3X32T8/UNV PSN-TC	145.15	
26 01 50 52-0045 EA Program Rapid Start Ballast, 4 Lamp, Normal Power; General Electric (UltraStart); GE-432-120-PS-N	143.98	
26 01 50 52-0046 EA Program Rapid Start Ballast, 4 Lamp, Normal Power; Sylvania (Quicktronic PROStart); QTP 4X32T8/UNV PSN-TC	147.24	
26 01 50 52-0047 Dimming Ballast, To 5% (26 01 50 52-0001)		
26 01 50 52-0048 EA Dimming to 5% Ballast, 1 Lamp, Normal Power; Sylvania (Quicktronic Powersense); QTP 1X32T8/UNV DIM-TC	209.62	
26 01 50 52-0049 EA Dimming to 5% Ballast, 1 Lamp, Normal Power; General Electric; B132R120V5	213.35	
26 01 50 52-0050 EA Dimming to 5% Ballast, 2 Lamp, Normal Power; Sylvania (Quicktronic Powersense); QTP 2X32T8/UNV DIM-TC	209.62	
26 01 50 52-0051 EA Dimming to 5% Ballast, 2 Lamp, Normal Power; General Electric; B232SR120V5	215.91	
26 01 50 52-0052 EA Dimming to 5% Ballast, 3 Lamp, Normal Power; Sylvania (Quicktronic Powersense); QTP 3X32T8/UNV DIM-TC	261.07	
26 01 50 52-0053 EA Dimming to 5% Ballast, 3 Lamp, Normal Power; General Electric; B332SR120V5	250.59	
26 01 50 52-0054 EA Dimming to 5% Ballast, 4 Lamp, Normal Power; Sylvania (Quicktronic Powersense); QTP 4X32T8/UNV DIM-TC	297.63	
26 01 50 52-0055 Magnetic Rapid Start Ballast (26 01 50 52-0001)		
26 01 50 52-0056 EA Magnetic Rapid Start Ballast, 1 Lamp, Low Power; Sylvania; MB1x25/32/120RS-LW	128.63	
26 01 50 52-0057 EA Magnetic Rapid Start Ballast, 1 Lamp, Normal Power; Sylvania; MB1x25/32/120RS-SRKN	113.06	
26 01 50 52-0058 EA Magnetic Rapid Start Ballast, 2 Lamp, Normal Power; Sylvania; MB2x25/32/120RS-SRKN	113.06	
26 01 50 52-0059 Slimline Instant Start Ballast (26 01 50 52-0001)		
26 01 50 52-0060 EA Slimline Instant Start Ballast, 2 Lamp, Normal Power; Advance (Standard); REL-2P59-SC	117.06	
26 01 50 52-0061 EA Slimline Instant Start Ballast, 2 Lamp, Normal Power; Advance (Centium); RCN-2P59	121.72	
26 01 50 52-0062 Emergency Ballast (26 01 50 52-0001)		
Note: Bodine		
26 01 50 52-0063 EA One Lamp, 350-450 Lumens, Code Compliance, Ninety Minute Illumination, Fluorescent Emergency Ballast (Bodine B100)	203.59	29.36
For Factory Installation In New Fixtures, Deduct		-58.70
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		17.61
26 01 50 52-0064 EA Two Lamp, 600-700 Lumens, Ninety Minute Illumination, Fluorescent Emergency Ballast (Bodine B60)	329.16	36.68
For Factory Installation In New Fixtures, Deduct		-61.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		18.49
26 01 50 52-0065 EA One Or Two Lamp, 1,100-1,400 Lumens, Ninety Minute Illumination, Fluorescent Emergency Ballast (Bodine B50)	406.49	36.68
For Factory Installation In New Fixtures, Deduct		-61.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		18.49
26 01 50 52-0066 EA One Or Two Lamp, 600-700 Lumens, Two Hour Illumination, Fluorescent Emergency Ballast (Bodine B70A)	303.31	36.68
For Factory Installation In New Fixtures, Deduct		-61.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		18.49
26 01 50 52-0067 EA Two Or Three Lamp, 2,700-3,400 Lumens, Ninety Minute Illumination, Fluorescent Emergency Ballast (Bodine B33)	1,385.00	44.02
For Factory Installation In New Fixtures, Deduct		-64.57
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		19.37
26 01 50 52-0068 EA One Lamp, 225-450 Lumens, Four Hour Illumination, Fluorescent Emergency Ballast (Bodine B54)	411.69	29.36
For Factory Installation In New Fixtures, Deduct		-58.70
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		17.61



		Electrical	26
		Operation and Maintenance of Electrical Systems	26 01
		Operation and Maintenance of Lighting	26 01 50

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0069 EA One Or Two Lamp, 325-1,000 Lumens, Ninety Minute Illumination, Compact Fluorescent Emergency Ballast (Bodine B84CG).....	683.86	36.68
For Factory Installation In New Fixtures, Deduct	-61.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.49	
26 01 50 52-0070 EA One Or Two Lamp, 300-750 Lumens, Ninety Minute Illumination, Compact Fluorescent Emergency Ballast (Bodine B94CG).....	381.02	36.68
For Factory Installation In New Fixtures, Deduct	-61.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.49	
26 01 50 52-0071 EA One Lamp, 200-625 Lumens, Ninety Minute Illumination, Damp Location, Compact Fluorescent Emergency Ballast (Bodine B413).....	515.33	29.36
For Factory Installation In New Fixtures, Deduct	-58.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.61	
26 01 50 52-0072 EA One Lamp, 300-650 Lumens, Damp Location, Ninety Minute Illumination, Compact Fluorescent Emergency Ballast (Bodine B463).....	401.81	29.36
For Factory Installation In New Fixtures, Deduct	-58.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.61	
26 01 50 52-0073 EA One Or Two Lamp, 450-950 Lumens, Ninety Minute Illumination, Damp Location, Compact Fluorescent Emergency Ballast (Bodine B426).....	453.06	36.68
For Factory Installation In New Fixtures, Deduct	-61.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.49	
26 01 50 52-0074 EA One Or Two Lamp, 1,100-1,400 Lumens, Ninety Minute Illumination, Damp Location, Fluorescent Emergency Ballast (Bodine BDL500).....	489.43	36.68
For Factory Installation In New Fixtures, Deduct	-61.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.49	
26 01 50 52-0075 EA Two Lamp, 600-700 Lumens, Damp Location, Fluorescent Emergency Ballast (Bodine BDL600).....	413.57	36.68
For Factory Installation In New Fixtures, Deduct	-61.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.49	
26 01 50 52-0076 EA One Lamp, 600-700 Lumens, Two Hour Illumination, Fluorescent Emergency Ballast (Bodine BDL700).....	419.23	29.36
For Factory Installation In New Fixtures, Deduct	-58.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.61	
26 01 50 52-0077 EA One Lamp, 500-600 Lumens, Damp Location, Ninety Minute Illumination, Fluorescent Emergency Ballast (Bodine BDL900).....	366.63	29.36
For Factory Installation In New Fixtures, Deduct	-58.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.61	
26 01 50 52-0078 EA One Or Two Lamp, 300-750 Lumens, Damp Location, Ninety Minute Illumination, Compact Fluorescent Emergency Ballast (Bodine BDL94C).....	381.02	36.68
For Factory Installation In New Fixtures, Deduct	-61.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.49	
26 01 50 52-0079 EA One Lamp, 450 Lumens, Low Profile, Ninety Minute Illumination, Fluorescent Emergency Ballast (Bodine LP400).....	372.30	29.36
For Factory Installation In New Fixtures, Deduct	-58.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.61	
26 01 50 52-0080 EA One Or Two Lamp, 1,100-1,400 Lumens, Self Testing, Ninety Minute Illumination, Fluorescent Emergency Ballast (Bodine B50ST).....	673.28	36.68
For Factory Installation In New Fixtures, Deduct	-61.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.49	
26 01 50 52-0081 EA One Or Two Lamp, 1,800-3,500 Lumens, Self Testing, Ninety Minute Illumination, Fluorescent Emergency Ballast (Bodine B30ST).....	839.19	36.68
For Factory Installation In New Fixtures, Deduct	-61.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.49	
26 01 50 52-0082 EA One Or Two Lamp, 1,450-3,500 Lumens, Remote Control Testing, Ninety Minute Illumination, Fluorescent Emergency Ballast (Bodine B30RCT).....	1,560.90	36.68
For Factory Installation In New Fixtures, Deduct	-61.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.49	
26 01 50 52-0083 EA One Or Two Lamp, 1,100-1,400 Lumens, Remote Control Testing, Ninety Minute Illumination, Fluorescent Emergency Ballast (Bodine B50RCT).....	1,087.59	36.68
For Factory Installation In New Fixtures, Deduct	-61.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.49	
26 01 50 52-0084 EA One Or Two Lamp, 1,100-3,100 Lumens, Central Battery, Fluorescent Emergency Ballast With Voltage Sensing Circuit (Bodine CB90-48).....	558.41	36.68
For Factory Installation In New Fixtures, Deduct	-61.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.49	
26 01 50 52-0085 EA One Lamp, 1,050-3,200 Lumens, Interim Lighting For Generator Backup, Five Minute Illumination, Fluorescent Emergency Ballast (Bodine GEN1).....	720.19	29.36
For Factory Installation In New Fixtures, Deduct	-58.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.61	
26 01 50 52-0086 EA 250 Watt, Self-Diagnostic, Ninety Minute Illumination, Fluorescent Emergency Lighting Inverter (Bodine ELI-250-SD).....	3,981.99	36.68
For Factory Installation In New Fixtures, Deduct	-58.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.61	
26 01 50 52-0087 Owner Supplied Ballasts (26 01 50 52)		
26 01 50 52-0088 EA Install Owner Supplied, 1 Lamp Fluorescent Ballast.....	29.36	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.61	
26 01 50 52-0089 EA Install Owner Supplied, 2 Lamp Fluorescent Ballast.....	36.68	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.00	
26 01 50 52-0090 EA Install Owner Supplied, 3 Lamp Fluorescent Ballast.....	42.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.77	
26 01 50 52-0091 EA Install Owner Supplied, 4 Lamp Fluorescent Ballast.....	45.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.65	
26 01 50 52-0092 EA Install Owner Supplied, 1 Lamp High Intensity Discharge (HID) Ballast.....	51.36	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.41	
26 01 50 52-0093 EA Install Owner Supplied, 2 Lamp High Intensity Discharge (HID) Ballast.....	54.30	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.29	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0094	High Intensity Discharge (HID) Ballasts (26 01 50 52)		
26 01 50 52-0095	Magnetic High Intensity Discharge (HID) Ballasts (26 01 50 52-0094)		
26 01 50 52-0096	Core And Coil High Intensity Discharge (HID) Ballasts (26 01 50 52-0095)		
26 01 50 52-0097	Metal Halide, Core And Coil High Intensity Discharge (HID) Ballasts (26 01 50 52-0096)		
26 01 50 52-0098	EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	189.67 15.41	36.68
26 01 50 52-0099	EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	194.15 15.41	36.68
26 01 50 52-0100	EA 1 Lamp, 250 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	194.15 15.41	36.68
26 01 50 52-0101	EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	181.41 15.41	36.68
26 01 50 52-0102	EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	181.41 15.41	36.68
26 01 50 52-0103	EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	266.75 15.41	36.68
26 01 50 52-0104	EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	266.75 15.41	36.68
26 01 50 52-0105	EA 1 Lamp, 1,500 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	341.92 15.41	36.68
26 01 50 52-0106	EA 1 Lamp, 1,500 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	380.26 15.41	36.68
26 01 50 52-0107	High Pressure Sodium, Core And Coil High Intensity Discharge (HID) Ballasts (26 01 50 52-0096)		
26 01 50 52-0108	EA 1 Lamp, 50 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	172.00 15.41	36.68
26 01 50 52-0109	EA 1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	182.00 15.41	36.68
26 01 50 52-0110	EA 1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	177.68 15.41	36.68
26 01 50 52-0111	EA 1 Lamp, 150 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	207.74 15.41	36.68
26 01 50 52-0112	EA 1 Lamp, 150 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	203.45 15.41	36.68
26 01 50 52-0113	EA 1 Lamp, 250 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	231.34 15.41	36.68
26 01 50 52-0114	EA 1 Lamp, 250 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	231.34 15.41	36.68
26 01 50 52-0115	EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	277.73 15.41	36.68
26 01 50 52-0116	EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	277.73 15.41	36.68
26 01 50 52-0117	EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	440.52 15.41	36.68
26 01 50 52-0118	EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	440.52 15.41	36.68
26 01 50 52-0119	Mounting Brackets For Core And Coil High Intensity Discharge (HID) Ballasts (26 01 50 52-0096)		
26 01 50 52-0120	EA Single Mounting Bracket For Core And Coil Type For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.34 4.40	
26 01 50 52-0121	EA Double Mounting Bracket For Core And Coil Type For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.39 6.61	
26 01 50 52-0122	F-Can High Intensity Discharge (HID) Ballasts (26 01 50 52-0095)		
26 01 50 52-0123	Metal Halide, F-Can High Intensity Discharge (HID) Ballasts (26 01 50 52-0122)		
26 01 50 52-0124	EA 1 Lamp, 70 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast For Pulse Start Ballast, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	238.94 18.76 15.41	36.68
26 01 50 52-0125	EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast For Pulse Start Ballast, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	251.34 20.00 15.41	36.68
26 01 50 52-0126	EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast For Pulse Start Ballast, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	229.54 17.82 15.41	36.68
26 01 50 52-0127	EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast For Pulse Start Ballast, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	265.37 21.40 15.41	36.68
26 01 50 52-0128	EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast For Pulse Start Ballast, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	365.77 31.44 15.41	36.68
26 01 50 52-0129	High Pressure Sodium, F-Can High Intensity Discharge (HID) Ballasts (26 01 50 52-0122)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0130 EA 1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	285.95 15.41	36.68
26 01 50 52-0131 EA 1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	305.29 15.41	36.68
26 01 50 52-0132 Postline High Intensity Discharge (HID) Ballasts (26 01 50 52-0095)		
26 01 50 52-0133 Metal Halide, Postline High Intensity Discharge (HID) Ballasts (26 01 50 52-0132)		
26 01 50 52-0134 EA 1 Lamp, 50 Watt Metal Halide, 120 Volt, Postline High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	471.36 15.41	36.68
26 01 50 52-0135 High Pressure Sodium, Postline High Intensity Discharge (HID) Ballasts (26 01 50 52-0132)		
26 01 50 52-0136 EA 1 Lamp, 70 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	723.15 15.59	37.11
26 01 50 52-0137 EA 1 Lamp, 100 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	805.59 15.59	37.11
26 01 50 52-0138 EA 1 Lamp, 150 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	777.07 15.59	37.11
26 01 50 52-0139 Indoor Enclosed High Intensity Discharge (HID) Ballasts (26 01 50 52-0095)		
26 01 50 52-0140 Metal Halide, Indoor Enclosed High Intensity Discharge (HID) Ballasts (26 01 50 52-0139)		
26 01 50 52-0141 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	578.76 15.41	36.68
26 01 50 52-0142 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	655.96 15.41	36.68
26 01 50 52-0143 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	864.16 15.41	36.68
26 01 50 52-0144 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	859.68 15.41	36.68
26 01 50 52-0145 EA 2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,202.11 16.29	39.62
26 01 50 52-0146 EA 2 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,202.11 16.29	39.62
26 01 50 52-0147 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	829.05 15.41	36.68
26 01 50 52-0148 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	974.15 15.41	36.68
26 01 50 52-0149 High Pressure Sodium, Indoor Enclosed High Intensity Discharge (HID) Ballasts (26 01 50 52-0139)		
26 01 50 52-0150 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,073.93 15.41	36.68
26 01 50 52-0151 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,022.79 15.41	36.68
26 01 50 52-0152 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,312.74 15.41	36.68
26 01 50 52-0153 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,312.74 15.41	36.68
26 01 50 52-0154 Outdoor Weatherproof High Intensity Discharge (HID) Ballasts (26 01 50 52-0095)		
26 01 50 52-0155 Metal Halide, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts (26 01 50 52-0154)		
26 01 50 52-0156 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	649.50 15.41	36.68
26 01 50 52-0157 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	701.03 15.41	36.68
26 01 50 52-0158 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	695.95 15.41	36.68
26 01 50 52-0159 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	730.48 15.41	36.68
26 01 50 52-0160 EA 2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,157.09 16.29	39.62
26 01 50 52-0161 EA 2 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,420.70 16.29	39.62
26 01 50 52-0162 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,079.93 15.41	36.68
26 01 50 52-0163 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	983.81 15.41	36.68
26 01 50 52-0164 High Pressure Sodium, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts (26 01 50 52-0154)		

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0165 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	836.48	36.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.41	
26 01 50 52-0166 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	901.47	36.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.41	
26 01 50 52-0167 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	1,342.74	36.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.41	
26 01 50 52-0168 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	1,156.30	36.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.41	
26 01 50 52-0169 Electronic High Intensity Discharge (HID) Ballasts (26 01 50 52-0094)		
26 01 50 52-0170 Electronic Low Frequency High Intensity Discharge (HID) Ballasts (26 01 50 52-0169)		
26 01 50 52-0171 EA 1 Lamp, 70 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	263.65	36.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.41	
26 01 50 52-0172 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	263.65	36.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.41	
26 01 50 52-0173 EA 1 Lamp, 150 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	296.22	36.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.41	
26 01 50 52-0174 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	752.70	36.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.41	
26 01 50 52-0175 EA 1 Lamp, 300 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	752.70	36.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.41	
26 01 50 52-0176 EA 1 Lamp, 320 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	752.70	36.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.41	
26 01 50 52-0177 EA 1 Lamp, 350 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	752.70	36.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.41	
26 01 50 52-0178 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	752.70	36.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.41	
26 01 50 53 Lens and Accessory Replacement (26 01 50)		
26 01 50 53-0001 Lens and Accessory Replacement (26 01 50 53)		
26 01 50 53-0002 EA Removal And Replacement Of Parabolic Aluminum Louver.....	90.28	
26 01 50 53-0003 EA Removal And Replacement Of Visor For Fixtures.....	213.56	
26 01 50 53-0004 EA Removal And Replacement Of Globe On Pole.....	229.26	
26 01 50 53-0005 EA Removal And Replacement Of Lenses For Flat Top Pole Fixtures.....	102.38	
26 01 50 53-0006 EA Removal And Replacement Of 1' x 4' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser.....	36.05	
26 01 50 53-0007 EA Removal And Replacement Of 2' x 2' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser.....	37.08	
26 01 50 53-0008 EA Removal And Replacement Of 2' x 4' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser.....	41.52	
26 01 50 53-0009 EA Removal And Replacement Of Slide-On Lampholder.....	16.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.46	
26 01 50 53-0010 EA Removal And Replacement Of Screw Mount Lampholder.....	16.61	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.46	
26 01 50 53-0011 EA Removal And Replacement Of Medium Bi-Pin Lampholder.....	17.97	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.46	
26 01 50 53-0012 EA Removal And Replacement Of Fixed High Output Lampholder, Recessed, Double Contact Double Pedestal Type.....	20.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.46	
26 01 50 53-0013 EA Removal And Replacement Of Plunger High Output Lampholder, Recessed, Double Contact Double Pedestal Type.....	21.41	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.46	
26 01 50 53-0014 EA Removal And Replacement Of Compact Twin-Tube Lampholder, Snap-in.....	17.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.46	
26 01 50 53-0015 EA Removal And Replacement Of Exterior Light Globes.....	60.77	
26 01 50 81 Luminaire Replacement (26 01 50)		
26 01 50 81-0001 Retrofit Lighting Fixtures (26 01 50 81)		
26 01 50 81-0002 LED Lighting Retrofits For Existing Fixtures (26 01 50 81-0001)		
26 01 50 81-0003 LED Lighting Retrofits For Existing Downlight Fixtures (GreenCreative) (26 01 50 81-0002)		
Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0004 EA 7" Round Downlight, 15 Watt, 2700K CCT, LED Retrofit (GreenCreative 15SMPR7DIM/927).....	126.71	
26 01 50 81-0005 EA 7" Round Downlight, 15 Watt, 3000K CCT, LED Retrofit (GreenCreative 15SMPR7DIM/930).....	126.71	
26 01 50 81-0006 EA 7" Round Downlight, 15 Watt, 4000K CCT, LED Retrofit (GreenCreative 15SMPR7DIM/940).....	126.71	
26 01 50 81-0007 EA 4" Diameter, 8.5 Watt, 2700K CCT, THINFIT LED Downlight, (GreenCreative 8.5DLNC4DIM/827).....	105.61	
26 01 50 81-0008 EA 4" Diameter, 8.5 Watt, 3000K CCT, THINFIT LED Downlight, (GreenCreative 8.5DLNC4DIM/830).....	105.61	
26 01 50 81-0009 EA 4" Diameter, 8.5 Watt, 4000K CCT, THINFIT LED Downlight, (GreenCreative 8.5DLNC4DIM/840).....	105.61	
26 01 50 81-0010 EA 6" Diameter, 11.6 Watt, 2700K CCT, THINFIT LED Downlight, (GreenCreative 11.6DLNC6DIM/827).....	114.49	
26 01 50 81-0011 EA 6" Diameter, 11.6 Watt, 3000K CCT, THINFIT LED Downlight, (GreenCreative 11.6DLNC6DIM/830).....	114.49	
26 01 50 81-0012 EA 6" Diameter, 11.6 Watt, 4000K CCT, THINFIT LED Downlight, (GreenCreative 11.6DLNC6DIM/840).....	114.49	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

26 01 50 81-0013 LED Lighting Retrofits For Existing Site Fixtures (Daylight Technology) (26 01 50

81-0002)

Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0369 for disposal of hazardous lamps.

26 01 50 81-0014	EA	2,300 Lumens, 23 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-20w)	360.81
26 01 50 81-0015	EA	3,300 Lumens, 33 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-30w)	374.13
26 01 50 81-0016	EA	4,400 Lumens, 44 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-40w)	387.46
26 01 50 81-0017	EA	5,400 Lumens, 54 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-50w)	403.75
26 01 50 81-0018	EA	6,500 Lumens, 65 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-60w)	442.62
26 01 50 81-0019	EA	7,600 Lumens, 75 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-70w)	458.91
26 01 50 81-0020	EA	8,600 Lumens, 86 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-80w)	495.56
26 01 50 81-0021	EA	9,600 Lumens, 96 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-90w)	508.88
26 01 50 81-0022	EA	10,700 Lumens, 107 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-100w)	525.17
26 01 50 81-0023	EA	11,700 Lumens, 117 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-110w)	549.60
26 01 50 81-0024	EA	12,800 Lumens, 128 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-120w)	575.89
26 01 50 81-0025	EA	13,800 Lumens, 138 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-130w)	601.43
26 01 50 81-0026	EA	14,900 Lumens, 149 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-140w)	614.76
26 01 50 81-0027	EA	16,100 Lumens, 161 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-150w)	636.96
26 01 50 81-0028	EA	17,200 Lumens, 172 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-160w)	663.62
26 01 50 81-0029	EA	18,200 Lumens, 182 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-170w)	691.38
26 01 50 81-0030	EA	19,300 Lumens, 193 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-180w)	733.58
26 01 50 81-0031	EA	20,300 Lumens, 203 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-190w)	752.45
26 01 50 81-0032	EA	21,400 Lumens, 214 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-200w)	785.40
26 01 50 81-0033	EA	22,400 Lumens, 224 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-210w)	828.71
26 01 50 81-0034	EA	23,500 Lumens, 235 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-220w)	850.92
26 01 50 81-0035	EA	24,500 Lumens, 245 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-230w)	904.23
26 01 50 81-0036	EA	25,600 Lumens, 256 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-240w)	953.08
26 01 50 81-0037	EA	26,600 Lumens, 266 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-250w)	987.14
26 01 50 81-0038	EA	27,700 Lumens, 277 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-260w)	1,034.89
26 01 50 81-0039	EA	28,700 Lumens, 287 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-270w)	1,127.80
26 01 50 81-0040	EA	29,800 Lumens, 298 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-280w)	1,138.91
26 01 50 81-0041	EA	31,900 Lumens, 319 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-300w)	1,167.80

26 01 50 81-0042 LED Lighting Retrofits For Existing Fixtures (Optilumen) (26 01 50 81-0002)

Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0369 for disposal of hazardous lamps.

26 01 50 81-0043	EA	20 Watt, 1 x 42", 3500L CCT, LED Retrofit Kit (Optilumen RKT1418M-35)	156.39
Note: Fits 1' x 4' Troffer/Strip			
26 01 50 81-0044	EA	20 Watt, 1 x 42", 4000L CCT, LED Retrofit Kit (Optilumen RKT1418M-40)	156.39
Note: Fits 1' x 4' Troffer/Strip			
26 01 50 81-0045	EA	20 Watt, 1 x 42", 5000L CCT, LED Retrofit Kit (Optilumen RKT1418M-50)	156.39
Note: Fits 1' x 4' Troffer/Strip			
26 01 50 81-0046	EA	30 Watt, 2 x 42", 3500L CCT, LED Retrofit Kit (Optilumen RKT2415M-35)	161.94
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0047	EA	2 x 42", 30 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT2415M-40)	161.94
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0048	EA	2 x 42", 30 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT2415M-50)	161.94
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0049	EA	2 x 42", 40 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT2418M-35)	173.05
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0050	EA	2 x 42", 40 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT2418M-40)	173.05
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0051	EA	2 x 42", 40 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT2418M-50)	173.05
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0052	EA	3 x 42", 30 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3415M-35)	161.94
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0053	EA	3 x 42", 30 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3415M-40)	161.94
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0054	EA	3 x 42", 30 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3415M-50)	161.94
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0055	EA	3 x 42", 40 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3418M-35)	173.05
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0056	EA	3 x 42", 40 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3418M-40)	173.05
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0057	EA	3 x 42", 40 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3418M-50)	173.05
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0058	EA	3 x 42", 60 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3424M-35)	195.25
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0059	EA	3 x 42", 60 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3424M-40)	195.25
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0060	EA	3 x 42", 60 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3424M-50)	195.25
Note: Fits 2' x 4' Troffer/Strip			
26 01 50 81-0061	EA	1 x 21", 10 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT1209M-35)	156.39
Note: Fits 1' x 2' Troffer/Strip			
26 01 50 81-0062	EA	1 x 21", 10 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT1209M-40)	156.39
Note: Fits 1' x 2' Troffer/Strip			
26 01 50 81-0063	EA	1 x 21", 10 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT1209M-50)	156.39
Note: Fits 1' x 2' Troffer/Strip			
26 01 50 81-0064	EA	2 x 21", 22 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT2209M-35)	156.39
Note: Fits 2' x 2' Troffer/Strip			

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0065 EA 2 x 21", 22 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT2209M-40) Note: Fits 2' x 2' Troffer/Strip	156.39	
26 01 50 81-0066 EA 2 x 21", 22 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT2209M-50) Note: Fits 2' x 2' Troffer/Strip	156.39	
26 01 50 81-0067 EA 3 x 21", 20 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3209M-35) Note: Fits 2' x 2' Troffer/Strip	161.94	
26 01 50 81-0068 EA 3 x 21", 20 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3209M-40) Note: Fits 2' x 2' Troffer/Strip	161.94	
26 01 50 81-0069 EA 3 x 21", 20 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3209M-50) Note: Fits 2' x 2' Troffer/Strip	161.94	
26 01 50 81-0070 EA 3 x 21", 30 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3210M-35) Note: Fits 2' x 2' Troffer/Strip	168.60	
26 01 50 81-0071 EA 3 x 21", 30 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3210M-40) Note: Fits 2' x 2' Troffer/Strip	168.60	
26 01 50 81-0072 EA 3 x 21", 30 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3210M-50) Note: Fits 2' x 2' Troffer/Strip	168.60	
26 01 50 81-0073 LED Lighting Retrofits For Existing Lay-In/Troffer Fixtures (LG) (26 01 50 81-0002) Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0074 EA 34 Watt, 3500K CCT, 2' x 4', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X4RT-34-35-4400-R(W)-SN).....	339.77	
26 01 50 81-0075 EA 34 Watt, 4000K CCT, 2' x 4', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X4RT-34-40-4500-R(W)-SN).....	339.77	
26 01 50 81-0076 EA 26 Watt, 3500K CCT, 2' x 2', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X2RT-26-35-3400-R(W)-SN).....	307.57	
26 01 50 81-0077 EA 26 Watt, 4000K CCT, 2' x 2', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X2RT-26-40-3400-R(W)-SN).....	307.57	
26 01 50 81-0078 EA 25 Watt, 3,250 Lumens, 3500K CCT, Lay-In Retrofit 2' x 2' Troffer (LG LGE-2X2SI-25-35-3200-RV) Note: No sensor, ZigBee ready driver	157.85	
26 01 50 81-0079 EA 25 Watt, 3,250 Lumens, 4000K CCT, Lay-In Retrofit 2' x 2' Troffer (LG LGE-2X2SI-25-40-3200-RV) Note: No sensor, ZigBee ready driver	157.85	
26 01 50 81-0080 EA 31 Watt, 4,050 Lumens, 3500K CCT, Lay-In Retrofit 2' x 4' Troffer (LG LGE-2X2SI-31-35-3200-RV) Note: No sensor, ZigBee ready driver	178.95	
26 01 50 81-0081 EA 31 Watt, 4,050 Lumens, 4000K CCT, Lay-In Retrofit 2' x 4' Troffer (LG LGE-2X2SI-31-40-3200-RV) Note: No sensor, ZigBee ready driver	178.95	
26 01 50 81-0082 EA 25 Watt, 3,250 Lumens, 3500K CCT, Lay-In Retrofit 2' x 2' Troffer With Sensor Connect (LG LGE-2X2SC-25-35-3200-RV) Note: Factory installed sensor and ZigBee dongle	194.50	
26 01 50 81-0083 EA 25 Watt, 3,250 Lumens, 4000K CCT, Lay-In Retrofit 2' x 2' Troffer With Sensor Connect (LG LGE-2X2SC-25-40-3200-RV) Note: Factory installed sensor and ZigBee dongle	194.50	
26 01 50 81-0084 EA 31 Watt, 3,250 Lumens, 3500K CCT, Lay-In Retrofit 2' x 4' Troffer With Sensor Connect (LG LGE-2X2SC-31-35-3200-RV) Note: Factory installed sensor and ZigBee dongle	200.05	
26 01 50 81-0085 EA 31 Watt, 3,250 Lumens, 4000K CCT, Lay-In Retrofit 2' x 4' Troffer With Sensor Connect (LG LGE-2X2SC-31-40-3200-RV) Note: Factory installed sensor and ZigBee dongle	200.05	
26 01 50 81-0086 EA 2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 3500K CCT, Retrofit Board Kits (LG LGE-2BDK-25-35-3120) Note: No sensor, ZigBee ready driver	125.65	
26 01 50 81-0087 EA 2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 4000K CCT, Retrofit Board Kits (LG LGE-2BDK-25-40-3120) Note: No sensor, ZigBee ready driver	125.65	
26 01 50 81-0088 EA 2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 3500K CCT, Retrofit Board Kits (LG LGE-4BDK-31-35-3880) Note: No sensor, ZigBee ready driver	138.98	
26 01 50 81-0089 EA 2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 4000K CCT, Retrofit Board Kits (LG LGE-4BDK-31-40-3880) Note: No sensor, ZigBee ready driver	138.98	
26 01 50 81-0090 EA 2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 3500K CCT, With Lens Retrofit Board Kits (LG LGE-2BDK-25-35-3120-L) Note: No sensor, ZigBee ready driver	128.98	
26 01 50 81-0091 EA 2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 4000K CCT, With Lens Retrofit Board Kits (LG LGE-2BDK-25-40-3120-L) Note: No sensor, ZigBee ready driver	128.98	
26 01 50 81-0092 EA 2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 3500K CCT, With Lens Retrofit Board Kits (LG LGE-4BDK-31-35-3880-L) Note: No sensor, ZigBee ready driver	142.31	
26 01 50 81-0093 EA 2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 4000K CCT, With Lens Retrofit Board Kits (LG LGE-4BDK-31-40-3880-L) Note: No sensor, ZigBee ready driver	142.31	
26 01 50 81-0094 EA 6" Diameter, 16 Watt, 1,450 Lumens, 3500K CCT, Comm Retrofit Downlight (LG LGE-CRDL-16-35-1450) Note: No sensor, ZigBee ready driver	127.87	
26 01 50 81-0095 EA 6" Diameter, 16 Watt, 1,450 Lumens, 4000K CCT, Comm Retrofit Downlight (LG LGE-CRDL-16-40-1450) Note: No sensor, ZigBee ready driver	127.87	
26 01 50 81-0096 EA 8" Diameter, 22 Watt, 2,000 Lumens, 3500K CCT, Comm Retrofit Downlight (LG LGE-CRDL-22-35-2000) Note: No sensor, ZigBee ready driver	137.87	
26 01 50 81-0097 EA 8" Diameter, 22 Watt, 2,000 Lumens, 4000K CCT, Comm Retrofit Downlight (LG LGE-CRDL-22-40-2000) Note: No sensor, ZigBee ready driver	137.87	
26 01 50 81-0098 LED Lighting Retrofit Accessories (LG) (26 01 50 81-0002) See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0099 EA Dongle (LG LGE-DONGLE).....	25.54	
26 01 50 81-0100 EA 1-group On/Off/Dim, 2-Button, Wireless Switch (LG LGE-SWITCH-BAT-2B).....	138.95	16.94
26 01 50 81-0101 EA 2-group On/Off/Dim, 4-Button, Wireless Switch (LG LGE-SWITCH-BAT-4B).....	145.72	20.32
26 01 50 81-0102 EA 1-group On/Off/Dim, 2-Button, AC Powered Switch (LG LGE-SWITCH-AC-2B).....	176.48	16.94
26 01 50 81-0103 EA 2-group On/Off/Dim, 4-Button, AC Powered Switch (LG LGE-SWITCH-AC-4B).....	183.25	20.32
26 01 50 81-0104 EA Photo, Motion Sensor With ZigBee Dongle plugin (LG LGE-MULTI-SENSOR).....	92.77	13.55
26 01 50 81-0105 EA Tube Clip For Multi Sensor (LG LGE-TUBE-CLIP).....	34.82	13.55
26 01 50 81-0106 EA Ceiling Plate For Multi Sensor (LG LGE-CEILING-PLATE).....	37.02	13.55
26 01 50 81-0107 EA Wireless Interface Module (LG PIHN-W005A)..... Note: includes dongle	90.36	20.32



Electrical		26
Operation and Maintenance of Electrical Systems		26 01
Operation and Maintenance of Lighting		26 01 50

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0108		Retrofit Existing (T12) Fluorescent Fixtures (26 01 50 81-0001) Note: Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 02 84 16 00-0008 for leaking ballast disposal, 26 01 50 51-0369 for hazardous lamp recycling.		
26 01 50 81-0109		Retrofit Existing (T12) Strip Style Fluorescent Fixtures Without Reflector (26 01 50 81-0108) Note: Includes ballast, white reflective ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.		
26 01 50 81-0110	EA	Retrofit An Existing 4' (T12) Strip Style Fixture Without Reflector To Operate One 4' (T8) Lamp..... <i>For Specular Ballast Cover, Add</i>	113.71 12.35	
26 01 50 81-0111	EA	Retrofit An Existing 4' (T12) Strip Style Fixture Without Reflector To Operate Two 4' (T8) Lamps..... <i>For Specular Ballast Cover, Add</i>	120.18 13.65	
26 01 50 81-0112	EA	Retrofit An Existing 8' (T12) Strip Style Fixture Without Reflector To Operate Two 4' (T8) Lamps..... <i>For Specular Ballast Cover, Add</i>	160.06 21.62	
26 01 50 81-0113	EA	Retrofit An Existing 8' (T12) Strip Style Fixture Without Reflector To Operate Four 4' (T8) Lamps <i>For Specular Ballast Cover, Add</i>	182.15 26.04	
26 01 50 81-0114		Retrofit Existing (T12) Strip Style Fluorescent Fixtures With Reflector (26 01 50 81-0108) Note: Includes ballast, white reflector and ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.		
26 01 50 81-0115	EA	Retrofit An Existing 4' (T12) Strip Style Fixture With Reflector To Operate One 4' (T8) Lamp <i>For Specular Reflector, Add</i>	119.57 17.05	
26 01 50 81-0116	EA	Retrofit An Existing 4' (T12) Strip Style Fixture With Reflector To Operate Two 4' (T8) Lamps..... <i>For Specular Reflector, Add</i>	126.75 17.05	
26 01 50 81-0117	EA	Retrofit An Existing 8' (T12) Strip Style Fixture With Reflector To Operate Two 4' (T8) Lamps..... <i>For Specular Reflector, Add</i>	168.27 17.05	
26 01 50 81-0118	EA	Retrofit An Existing 8' (T12) Strip Style Fixture With Reflector To Operate Four 4' (T8) Lamps <i>For Specular Reflector, Add</i>	211.31 17.05	
26 01 50 81-0119		Retrofit Existing (T12) Troffer Style Fluorescent Fixtures (26 01 50 81-0108) Note: Includes ballast, white reflector and ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.		
26 01 50 81-0120	EA	Retrofit An Existing 1 x 4 (T12) Troffer Style Fixture To Operate One 4' (T8) Lamps <i>For Specular Reflector, Add</i>	149.67 17.05	
26 01 50 81-0121	EA	Retrofit An Existing 1 x 4 (T12) Troffer Style Fixture To Operate Two 4' (T8) Lamps <i>For Specular Reflector, Add</i>	156.14 17.05	
26 01 50 81-0122	EA	Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Two 2' (T8) Lamps <i>For Specular Reflector, Add</i>	158.90 17.05	
26 01 50 81-0123	EA	Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Three 2' (T8) Lamps <i>For Specular Reflector, Add</i>	176.07 17.05	
26 01 50 81-0124	EA	Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Four 2' (T8) Lamps <i>For Specular Reflector, Add</i>	210.57 17.05	
26 01 50 81-0125	EA	Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Two 4' (T8) Lamps <i>For Specular Reflector, Add</i>	163.18 17.05	
26 01 50 81-0126	EA	Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Three 4' (T8) Lamps <i>For Specular Reflector, Add</i>	177.79 17.05	
26 01 50 81-0127	EA	Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Four 4' (T8) Lamps <i>For Specular Reflector, Add</i>	189.96 17.05	
26 01 50 81-0128		Retrofit Existing Recessed Lay-In/Troffer Fixtures (26 01 50 81-0001)		
26 01 50 81-0129		Fluorescent Volumetric Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Lithonia) (26 01 50 81-0128) Note: Includes removing existing lamps and ballast. Includes installing adaptor frame, volumetric reflectors, lamps and ballasts. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0130	EA	2 T8 Lamps, 0.78 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R)	174.49	
26 01 50 81-0131	EA	2 T8 Lamps, 0.88 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R)	174.49	
26 01 50 81-0132	EA	2 T8 Lamps, 1.20 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R)	174.49	
26 01 50 81-0133	EA	2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8RT)	188.31	
26 01 50 81-0134	EA	2 T8 Lamps, 0.78 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT)	174.49	
26 01 50 81-0135	EA	2 T8 Lamps, 0.88 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT)	174.49	
26 01 50 81-0136	EA	2 T8 Lamps, 1.20 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT)	174.49	
26 01 50 81-0137	EA	2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT)	188.31	
26 01 50 81-0138	EA	2 T8 Lamps, 0.78 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R)	175.34	
26 01 50 81-0139	EA	2 T8 Lamps, 0.88 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R)	175.34	
26 01 50 81-0140	EA	2 T8 Lamps, 1.20 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R)	175.34	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0141	EA	2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R)	189.16	
26 01 50 81-0142	EA	2 T8 Lamps, 0.78 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT)	175.34	
26 01 50 81-0143	EA	2 T8 Lamps, 0.88 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT)	175.34	
26 01 50 81-0144	EA	2 T8 Lamps, 1.20 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT)	175.34	
26 01 50 81-0145	EA	2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT)	189.16	
26 01 50 81-0146		LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (PlanLED) (26 01 50 81-0128) Note: Includes adaptor frame, optical system, LEDs and driver. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0147	EA	2,400 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (PlanLED FR3E-025)	236.04	
26 01 50 81-0148	EA	4,300 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (PlanLED FR3E-045)	245.44	
26 01 50 81-0149		LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Raffino™) (26 01 50 81-0128) Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0150	EA	1,800 Lumens, 1' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR14-1800L)	352.82	
26 01 50 81-0151	EA	2,600 Lumens, 1' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR14-2700L)	360.99	
26 01 50 81-0152	EA	2,200 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR22-2200L)	352.82	
26 01 50 81-0153	EA	3,300 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR22-3300L)	360.99	
26 01 50 81-0154	EA	3,300 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-3000L)	401.85	
26 01 50 81-0155	EA	4,150 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-4000L)	414.11	
26 01 50 81-0156	EA	5,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-5000L)	442.71	
26 01 50 81-0157		LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Orion) (26 01 50 81-0128) Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0158	EA	3,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-030L-FO-UNV-FDX-840-22-1P-CT-M-ST)	327.81	
26 01 50 81-0159	EA	3,500 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-035L-FO-UNV-FDX-840-22-1P-CT-M-ST)	339.21	
26 01 50 81-0160	EA	3,200 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-032L-FO-UNV-FDX-840-24-1P-CT-M-ST)	342.62	
26 01 50 81-0161	EA	3,800 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-038L-FO-UNV-FDX-840-24-1P-CT-M-ST)	354.02	
26 01 50 81-0162	EA	2,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1A1UNVFDX84022MST)	250.87	
26 01 50 81-0163	EA	4,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1B1UNVFDX84022MST)	256.29	
26 01 50 81-0164	EA	3,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1D1UNVFDX84024MST)	264.95	
26 01 50 81-0165	EA	4,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1E1UNVFDX84024MST)	270.36	
26 01 50 81-0166	EA	6,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1F1UNVFDX84024MST)	331.00	
26 01 50 81-0167	EA	8,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (ORION LDRE1G1UNVFDX84024MST)	391.63	
26 01 50 81-0168		Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components) (26 01 50 81-0128) Note: Includes adaptor frame, optical system, lamps and ballasts. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0169	EA	1 T5 Lamp, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	296.52	
26 01 50 81-0170	EA	1 T8 Lamp, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	222.80	
26 01 50 81-0171	EA	2 T5 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	303.62	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0172	EA	2 T8 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	229.78	
26 01 50 81-0173	EA	3 T5 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	316.85	
26 01 50 81-0174	EA	3 T8 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	248.84	
26 01 50 81-0175	EA	1 T5 Lamp, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	347.65	
26 01 50 81-0176	EA	1 T8 Lamp, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	273.73	
26 01 50 81-0177	EA	2 T5 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	354.33	
26 01 50 81-0178	EA	2 T8 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	280.41	
26 01 50 81-0179	EA	3 T5 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	367.47	
26 01 50 81-0180	EA	3 T8 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	299.43	
26 01 50 81-0181		LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL2R/RT) (26 01 50 81-0128) Note: Includes removing existing lamps and ballast. Includes installing LED light engine assembly, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0182	EA	3,300 Lumens, 2' x 2', LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL2R/RT).....	640.18	
26 01 50 81-0183	EA	4,800 Lumens, 2' x 4', LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL4R/RT).....	709.86	
26 01 50 81-0184		Retrofit Existing HID Fixtures (26 01 50 81-0001)		
26 01 50 81-0185	EA	Tear Drop LED Retrofit Kit (Holophane LTDR L2 P35S 40K AS BK TDRD 3 P).....	1,440.26	
26 01 50 81-0186		LED Lighting Retrofits For Existing Fluorescent Fixtures (26 01 50 81-0001) Note: Excludes recycling or disposal of lamps and ballasts. See CSI section 26 01 50 51-0369 for disposal of hazardous lamps.		
26 01 50 81-0187		LED Lightbar Retrofit For Existing Fluorescent Fixtures (Lithonia) (26 01 50 81-0186)		
26 01 50 81-0188	EA	2' Length, 2 Bar, 2,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 2FT 2 2000LMHE 80CRI 35K MIN10 GZT MVOLT)..... For >25 To 50, Deduct For >50 To 100, Deduct For >100, Deduct	134.82 -6.74 -11.78 -20.16	
26 01 50 81-0189	EA	2' Length, 4 Bar, 8,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 2FT 4 8000LMHE 80CRI MIN10 GZT MVOLT)..... For >25 To 50, Deduct For >50 To 100, Deduct For >100, Deduct	193.13 -9.66 -16.15 -25.99	
26 01 50 81-0190	EA	3' Length, 2 Bar, 4,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 3FT 2 4000LMHE 80CRI 35K MIN10 GZT MVOLT)..... For >25 To 50, Deduct For >50 To 100, Deduct For >100, Deduct	146.45 -7.32 -12.75 -21.70	
26 01 50 81-0191	EA	3' Length, 1 Bar, 1,600 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 3FT 1 1600LMHE 80CRI 35K MIN10 GZT MVOLT)..... For >25 To 50, Deduct For >50 To 100, Deduct For >100, Deduct	135.07 -6.75 -11.89 -20.56	
26 01 50 81-0192	EA	4' Length, 2 Bar, 6,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 2 6000LMHE 80CRI 35K MIN10 GZT MVOLT)..... For >25 To 50, Deduct For >50 To 100, Deduct For >100, Deduct	175.28 -8.76 -15.00 -24.95	
26 01 50 81-0193	EA	4' Length, 4 Bar, 6,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 4 6000LMHE 80CRI 35K MIN10 GZT MVOLT)..... For >25 To 50, Deduct For >50 To 100, Deduct For >100, Deduct	225.81 -11.29 -18.79 -30.00	
26 01 50 81-0194	EA	4' Length, 1 Bar, 3,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 1 3000LMHE 80CRI 35K MIN10 GZT MVOLT)..... For >25 To 50, Deduct For >50 To 100, Deduct For >100, Deduct	145.80 -7.29 -12.79 -22.00	
26 01 50 81-0195	EA	4' Length, 1 Bar, 4,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 1 4000LMHE 80CRI 35K MIN10 GZT MVOLT)..... For >25 To 50, Deduct For >50 To 100, Deduct For >100, Deduct	145.80 -7.29 -12.79 -22.00	
26 01 50 81-0196	EA	4' Length, 4 Bar, 8,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 4 8000LMHE 80CRI 35K MIN10 GZT MVOLT)..... For >25 To 50, Deduct For >50 To 100, Deduct For >100, Deduct	185.39 -9.27 -15.76 -25.96	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0197	EA	4' Length, 2 Bar, 4,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 2 4000LMHE 80CRI 35K MIN10 GZT MVOLT)	158.43		
		For >25 To 50, Deduct	-7.92		
		For >50 To 100, Deduct	-13.74		
		For >100, Deduct	-23.27		
26 01 50 81-0198	EA	4' Length, 2 Bar, 3,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 2 3000LMHE 80CRI 35K MIN10 GZT MVOLT)	158.43		
		For >25 To 50, Deduct	-7.92		
		For >50 To 100, Deduct	-13.74		
		For >100, Deduct	-23.27		
26 01 50 81-0199 LED Retrofit For Existing Fluorescent Fixtures (Lithonia) (26 01 50 81-0186)					
26 01 50 81-0200	EA	1'x 4', 4,000 Lumens, 3500K CCT, Square Smooth Diffuser, Dimming LED Relight Assembly (Lithonia BLT4R F 40LHE SDSMT MVOLT EZ1 LP835 NLTAIR2)	313.03		
		For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add	201.54		
		For nLight AIR radio module without sensor (nLight RIO), Add	131.01		
		For >25 To 50, Deduct	-15.65		
		For >50 To 100, Deduct	-25.33		
		For >100, Deduct	-38.73		
26 01 50 81-0201	EA	1'x 4', 4,800 Lumens, 3500K CCT, Curved Smooth Diffuser, Dimming LED Relight Assembly (Lithonia BLT4R 48LHE ADSMT MVOLT EZ1 LP835 NLTAIR2)	336.93		
		For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add	201.54		
		For nLight AIR radio module without sensor (nLight RIO), Add	131.01		
		For >25 To 50, Deduct	-16.85		
		For >50 To 100, Deduct	-27.13		
		For >100, Deduct	-41.12		
26 01 50 81-0202	EA	2'x 2', 3,300 Lumens, 3500K CCT, Square Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT2R 33LHE SDSMT MVOLT EZ1 LP835 NLTAIR2)	354.80		
		For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add	201.54		
		For nLight AIR radio module without sensor (nLight RIO), Add	131.01		
		For >25 To 50, Deduct	-17.74		
		For >50 To 100, Deduct	-28.47		
		For >100, Deduct	-42.90		
26 01 50 81-0203	EA	2'x 2', 4,000 Lumens, 3500K CCT, Square Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT2R F 40LHE SDSMT MVOLT EZ1 LP835 NLTAIR2)	382.71		
		For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add	201.54		
		For nLight AIR radio module without sensor (nLight RIO), Add	131.01		
		For >25 To 50, Deduct	-19.14		
		For >50 To 100, Deduct	-30.56		
		For >100, Deduct	-45.69		
26 01 50 81-0204	EA	2'x 4', 4,000 Lumens, 3500K CCT, Curved Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT4R 40LHE ADSMT MVOLT EZ1 LP835 NLTAIR2 RIO)	411.31		
		For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add	201.54		
		For nLight AIR radio module without sensor (nLight RIO), Add	131.01		
		For >25 To 50, Deduct	-20.57		
		For >50 To 100, Deduct	-33.08		
		For >100, Deduct	-50.04		
26 01 50 81-0205	EA	2'x 4', 4,800 Lumens, 3500K CCT, Curved Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT4R 48LHE ADSMT MVOLT EZ1 LP835 NLTAIR2 RIO)	443.73		
		For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add	201.54		
		For nLight AIR radio module without sensor (nLight RIO), Add	131.01		
		For >25 To 50, Deduct	-22.19		
		For >50 To 100, Deduct	-35.51		
		For >100, Deduct	-53.28		
26 01 50 81-0206 LED Lighting Retrofits For Existing Fluorescent Fixtures (ELED Lights) (26 01 50 81-0186)					
		Note: Includes removal of existing fluorescent lamps, installing LED strip lighting and trim. Excludes recycling or disposal of lamps. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0369 for disposal of hazardous lamps.			
26 01 50 81-0207	EA	2' Dimmable, 20 Watts, 2900 Lumens, 4000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X2STRPD20W40)	116.03		
		Note: Kit contains two 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver			
		For >25 To 50, Deduct	-5.80		
		For >50 To 100, Deduct	-10.37		
		For >100, Deduct	-18.28		
26 01 50 81-0208	EA	2' Dimmable, 20 Watts, 2900 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X2STRPD20W50)	116.03		
		Note: Kit contains two 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver			
		For >25 To 50, Deduct	-5.80		
		For >50 To 100, Deduct	-10.37		
		For >100, Deduct	-18.28		
26 01 50 81-0209	EA	4' Dimmable, 32 Watts, 5000 Lumens, 4000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X4STRPD32W40)	149.82		
		Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver			
		For >25 To 50, Deduct	-7.49		
		For >50 To 100, Deduct	-13.09		
		For >100, Deduct	-22.40		



		Electrical	26
		Operation and Maintenance of Electrical Systems	26 01
		Operation and Maintenance of Lighting	26 01 50

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0210	EA	4' Dimmable, 32 Watts, 5000 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X4STRPD32W50).....	149.82	
		Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	-7.49	
		For >50 To 100, Deduct	-13.09	
		For >100, Deduct	-22.40	
26 01 50 81-0211	EA	4' Dimmable, 35 Watts, 5500 Lumens, 3000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN30).....	149.93	
		Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	-7.50	
		For >50 To 100, Deduct	-13.10	
		For >100, Deduct	-22.42	
26 01 50 81-0212	EA	4' Dimmable, 35 Watts, 5500 Lumens, 3000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN30F).....	162.05	
		Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	-8.10	
		For >50 To 100, Deduct	-14.01	
		For >100, Deduct	-23.63	
26 01 50 81-0213	EA	4' Dimmable, 35 Watts, 5500 Lumens, 3500K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN35).....	149.93	
		Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	-7.50	
		For >50 To 100, Deduct	-13.10	
		For >100, Deduct	-22.42	
26 01 50 81-0214	EA	4' Dimmable, 35 Watts, 5500 Lumens, 3500K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN35F).....	162.05	
		Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	-8.10	
		For >50 To 100, Deduct	-14.01	
		For >100, Deduct	-23.63	
26 01 50 81-0215	EA	4' Dimmable, 35 Watts, 5500 Lumens, 4000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN40).....	149.93	
		Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	-7.50	
		For >50 To 100, Deduct	-13.10	
		For >100, Deduct	-22.42	
26 01 50 81-0216	EA	4' Dimmable, 35 Watts, 5500 Lumens, 4000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN40F).....	162.05	
		Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	-8.10	
		For >50 To 100, Deduct	-14.01	
		For >100, Deduct	-23.63	
26 01 50 81-0217	EA	4' Dimmable, 35 Watts, 5500 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN50).....	149.93	
		Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	-7.50	
		For >50 To 100, Deduct	-13.10	
		For >100, Deduct	-22.42	
26 01 50 81-0218	EA	4' Dimmable, 35 Watts, 5500 Lumens, 5000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN50F).....	162.05	
		Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	-8.10	
		For >50 To 100, Deduct	-14.01	
		For >100, Deduct	-23.63	
26 01 50 81-0219	EA	4' Dimmable, 46 Watts, 6800 Lumens, 5000K, Ultra High Lumen Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X4STRPD46W50).....	161.95	
		Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	-8.10	
		For >50 To 100, Deduct	-14.00	
		For >100, Deduct	-23.62	
26 01 50 81-0220	EA	4' Dimmable, 31 Watts, 5730 Lumens, 4000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40).....	187.90	
		Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	-9.40	
		For >50 To 100, Deduct	-15.95	
		For >100, Deduct	-26.21	
26 01 50 81-0221	EA	4' Dimmable, 31 Watts, 5730 Lumens, 4000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40F).....	203.05	
		Note: Kit contains two 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	-10.15	
		For >50 To 100, Deduct	-17.08	
		For >100, Deduct	-27.73	
26 01 50 81-0222	EA	4' Dimmable, 31 Watts, 5730 Lumens, 5000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50).....	187.90	
		Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	-9.40	
		For >50 To 100, Deduct	-15.95	
		For >100, Deduct	-26.21	

26 Electrical**26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0223	EA	4' Dimmable, 31 Watts, 5730 Lumens, 5000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50F).....	203.05	
		Note: Kit contains two 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	-10.15	
		For >50 To 100, Deduct	-17.08	
		For >100, Deduct	-27.73	
26 01 50 81-0224	EA	20 Watts, Emergency Battery Backup, For Use With 2' And 4' Linear LED Retrofit Kits (ELEDLIGHTS BLD-AM20D-480800).....	189.16	
		Note: 90-minute emergency battery with DIP switch-selectable power output of 10 Watts, 15 Watts, or 20 Watts		
		For >25 To 50, Deduct	-9.46	
		For >50 To 100, Deduct	-14.56	
		For >100, Deduct	-20.40	
26 01 50 81-0225	EA	20 Watts, Emergency Battery Backup, For Use With 2' And 4' Linear LED Retrofit Kits (ELEDLIGHTS EM-HM-20W).....	173.82	
		Note: 90-minute emergency battery with power output of 20 Watts		
		For >25 To 50, Deduct	-8.69	
		For >50 To 100, Deduct	-13.41	
		For >100, Deduct	-18.87	
26 01 50 81-0226	EA	8' Dimmable, 46 Watts, 7400 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4X4STRPD49W50).....	194.82	
		Note: Kit contains four 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	-9.74	
		For >50 To 100, Deduct	-17.02	
		For >100, Deduct	-29.13	
26 01 50 81-0227	EA	8' Dimmable, 49 Watts, 6680 Lumens, 5000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4X4STRPD49W50F).....	202.40	
		Note: Kit contains four 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	-10.12	
		For >50 To 100, Deduct	-17.59	
		For >100, Deduct	-29.89	
26 01 50 81-0228	EA	8' Dimmable, 64 Watts, 11850 Lumens, 4000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40).....	276.85	
		Note: Kit contains four 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	-13.84	
		For >50 To 100, Deduct	-23.18	
		For >100, Deduct	-37.33	
26 01 50 81-0229	EA	8' Dimmable, 64 Watts, 11850 Lumens, 4000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40F).....	307.16	
		Note: Kit contains four 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	-15.36	
		For >50 To 100, Deduct	-25.45	
		For >100, Deduct	-40.36	
26 01 50 81-0230	EA	8' Dimmable, 64 Watts, 11850 Lumens, 5000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50).....	276.85	
		Note: Kit contains four 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	-13.84	
		For >50 To 100, Deduct	-23.18	
		For >100, Deduct	-37.33	
26 01 50 81-0231	EA	8' Dimmable, 64 Watts, 11850 Lumens, 5000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50F).....	307.16	
		Note: Kit contains four 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
		For >25 To 50, Deduct	-15.36	
		For >50 To 100, Deduct	-25.45	
		For >100, Deduct	-40.36	

26 05 Common Work Results for Electrical ⁽²⁶⁾**26 05 13 Medium-Voltage Cables** ^(26 05)**26 05 13 16 Medium-Voltage, Single-and Multi-Conductor Cables** ^(26 05 13)**26 05 13 16-0001 Wire And Cable** ^(26 05 13 16)

Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, testing, and splicing (#8 and lighter). All conductors are copper except as otherwise noted. No special set-up is required. Excludes terminations.

26 05 13 16-0002 5 KV Cable ^(26 05 13 16-0001)**26 05 13 16-0003 Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed In Duct** ^(26 05 13 16-0002)

26 05 13 16-0004	MLF	#6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	4,123.53	1,125.00
26 05 13 16-0005	MLF	#4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	4,843.49	1,228.40
26 05 13 16-0006	MLF	#2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	5,752.22	1,387.90
26 05 13 16-0007	MLF	1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	7,431.32	1,709.95
26 05 13 16-0008	MLF	2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	8,456.12	1,925.55
26 05 13 16-0009	MLF	3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	10,296.84	2,137.32
26 05 13 16-0010	MLF	4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	11,588.58	2,401.50
26 05 13 16-0011	MLF	250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	13,691.77	2,671.76
26 05 13 16-0012	MLF	350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	15,988.14	3,190.02
26 05 13 16-0013	MLF	500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	20,058.28	3,749.80
26 05 13 16-0014	MLF	750 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	29,462.65	4,419.55



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0015	MLF		1,000 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	38,874.09	5,088.96
26 05 13 16-0016			Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Direct Burial (26 05 13 16-0002) Note: Excludes excavation.		
26 05 13 16-0017	MLF		#6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	3,982.91	
26 05 13 16-0018	MLF		#4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	4,444.26	
26 05 13 16-0019	MLF		#2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	4,954.18	
26 05 13 16-0020	MLF		1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	6,092.53	
26 05 13 16-0021	MLF		2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	6,578.17	
26 05 13 16-0022	MLF		3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	8,153.09	
26 05 13 16-0023	MLF		4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	8,784.40	
26 05 13 16-0024	MLF		250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	10,482.26	
26 05 13 16-0025	MLF		350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	11,623.32	
26 05 13 16-0026	MLF		500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	14,420.51	
26 05 13 16-0027			Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed On Poles (Aerial) (26 05 13 16-0002)		
26 05 13 16-0028	MLF		#6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	3,168.84	711.73
26 05 13 16-0029	MLF		#4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	3,764.66	763.13
26 05 13 16-0030	MLF		#2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	4,801.30	965.04
26 05 13 16-0031	MLF		1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	6,214.44	1,171.52
26 05 13 16-0032	MLF		2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	7,231.87	1,375.27
26 05 13 16-0033	MLF		3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	9,058.70	1,572.76
26 05 13 16-0034	MLF		4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	10,347.92	1,824.86
26 05 13 16-0035	MLF		250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	13,004.89	2,295.78
26 05 13 16-0036	MLF		350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	15,595.11	2,904.88
26 05 13 16-0037	MLF		500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	20,210.23	3,649.70
26 05 13 16-0038			5 KV Non-Shielded Single Copper Conductor (26 05 13 16-0002)		
26 05 13 16-0039	MLF		1/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	8,882.13	2,241.99
26 05 13 16-0040	MLF		2/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	10,109.78	2,274.21
26 05 13 16-0041	MLF		3/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	11,337.43	2,306.43
26 05 13 16-0042	MLF		4/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	11,792.35	2,357.41
26 05 13 16-0043	MLF		350 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	13,960.53	2,447.34
26 05 13 16-0044	MLF		500 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	19,520.70	2,564.84
26 05 13 16-0045	MLF		750 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	29,862.80	3,206.05
26 05 13 16-0046	MLF		1,000 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	34,719.27	4,274.79
26 05 13 16-0047			Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed In Duct (26 05 13 16-0002)		
26 05 13 16-0048	MLF		#6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	4,359.55	1,125.00
26 05 13 16-0049	MLF		#4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	5,162.55	1,228.40
26 05 13 16-0050	MLF		#2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	6,163.06	1,387.90
26 05 13 16-0051	MLF		#1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	7,081.07	1,548.85
26 05 13 16-0052	MLF		1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	7,999.51	1,709.95
26 05 13 16-0053	MLF		2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	9,111.72	1,925.55
26 05 13 16-0054	MLF		3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	11,188.46	2,137.32
26 05 13 16-0055	MLF		4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	12,593.84	2,401.50
26 05 13 16-0056	MLF		250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	14,954.02	2,671.76
26 05 13 16-0057	MLF		350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	17,430.46	3,190.02
26 05 13 16-0058	MLF		500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	21,981.37	3,749.80
26 05 13 16-0059	MLF		750 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	32,777.86	4,419.55
26 05 13 16-0060	MLF		1,000 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	43,581.38	5,088.96
26 05 13 16-0061			Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Direct Burial (26 05 13 16-0002) Note: Excludes excavation.		
26 05 13 16-0062	MLF		#6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	4,218.92	
26 05 13 16-0063	MLF		#4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	4,763.32	
26 05 13 16-0064	MLF		#2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	5,365.02	
26 05 13 16-0065	MLF		#1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	6,013.48	
26 05 13 16-0066	MLF		1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	6,660.72	
26 05 13 16-0067	MLF		2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	7,233.77	
26 05 13 16-0068	MLF		3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	9,044.70	
26 05 13 16-0069	MLF		4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	9,789.66	
26 05 13 16-0070	MLF		250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	11,744.51	
26 05 13 16-0071	MLF		350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	13,065.64	
26 05 13 16-0072	MLF		500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	16,343.61	
26 05 13 16-0073			Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed On Poles (Aerial) (26 05 13 16-0002)		

26 Electrical**26 05 Common Work Results for Electrical****26 05 13 Medium-Voltage Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0074 MLF #6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	3,404.86	711.73
26 05 13 16-0075 MLF #4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	4,083.72	763.13
26 05 13 16-0076 MLF #2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	5,212.14	965.04
26 05 13 16-0077 MLF #1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	5,995.49	1,067.52
26 05 13 16-0078 MLF 1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	6,782.63	1,171.52
26 05 13 16-0079 MLF 2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	7,887.47	1,375.27
26 05 13 16-0080 MLF 3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	9,950.32	1,572.76
26 05 13 16-0081 MLF 4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	11,353.18	1,824.86
26 05 13 16-0082 MLF 250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	14,267.14	2,295.78
26 05 13 16-0083 MLF 350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	17,037.43	2,904.88
26 05 13 16-0084 MLF 500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	22,133.32	3,649.70
26 05 13 16-0085 15 KV Cable (26 05 13 16-0001)		
26 05 13 16-0086 Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable (26 05 13 16-0085)		
26 05 13 16-0087 Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct (26 05 13 16-0086)		
26 05 13 16-0088 MLF #4 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	8,849.57	2,241.99
26 05 13 16-0089 MLF #2 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	9,509.62	2,241.99
26 05 13 16-0090 MLF #1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	9,761.38	2,241.99
26 05 13 16-0091 MLF 1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	10,581.55	2,241.99
26 05 13 16-0092 MLF 2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	11,360.00	2,241.99
26 05 13 16-0093 MLF 3/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	12,912.18	2,340.26
26 05 13 16-0094 MLF 4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	13,218.00	2,340.26
26 05 13 16-0095 MLF 250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	15,154.08	2,447.34
26 05 13 16-0096 MLF 350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	17,090.71	2,504.72
26 05 13 16-0097 MLF 500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	20,982.13	2,821.32
26 05 13 16-0098 Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial (26 05 13 16-0086)		
Note: Excludes excavation.		
26 05 13 16-0099 MLF #1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	7,349.69	
26 05 13 16-0100 MLF 1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	8,169.84	
26 05 13 16-0101 MLF 2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	8,948.30	
26 05 13 16-0102 MLF 3/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	10,531.48	
26 05 13 16-0103 MLF 4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	10,837.29	
26 05 13 16-0104 MLF 250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	12,906.24	
26 05 13 16-0105 MLF 350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	14,846.50	
26 05 13 16-0106 MLF 500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	18,417.30	
26 05 13 16-0107 Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) (26 05 13 16-0086)		
26 05 13 16-0108 MLF #1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	6,810.19	1,016.73
26 05 13 16-0109 MLF 1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	8,034.41	1,171.52
26 05 13 16-0110 MLF 2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	9,344.67	1,375.27
26 05 13 16-0111 MLF 3/0 AWG, XLP, 15 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation Cable.....	11,167.00	1,572.76
26 05 13 16-0112 MLF 4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	12,130.71	1,824.86
26 05 13 16-0113 MLF 250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	14,580.87	2,124.37
26 05 13 16-0114 MLF 350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	17,290.25	2,475.44
26 05 13 16-0115 MLF 500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	21,434.46	2,875.44
26 05 13 16-0116 Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable (26 05 13 16-0085)		
26 05 13 16-0117 Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct (26 05 13 16-0116)		
26 05 13 16-0118 MLF #4 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	9,433.60	2,241.99
26 05 13 16-0119 MLF #2 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	10,212.45	2,241.99
26 05 13 16-0120 MLF #1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	10,509.54	2,241.99
26 05 13 16-0121 MLF 1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	11,477.33	2,241.99
26 05 13 16-0122 MLF 2/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	12,395.90	2,241.99
26 05 13 16-0123 MLF 3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	14,183.29	2,340.26
26 05 13 16-0124 MLF 4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	14,544.16	2,340.26
26 05 13 16-0125 MLF 250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	16,780.50	2,447.34
26 05 13 16-0126 MLF 350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	19,039.91	2,504.72
26 05 13 16-0127 MLF 500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	23,489.32	2,821.32
26 05 13 16-0128 Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial (26 05 13 16-0116)		
Note: Excludes excavation.		
26 05 13 16-0129 MLF #1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	8,097.84	
26 05 13 16-0130 MLF 1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	9,065.63	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0131 MLF 2/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	9,984.20	
26 05 13 16-0132 MLF 3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	11,802.59	
26 05 13 16-0133 MLF 4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	12,163.44	
26 05 13 16-0134 MLF 250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	14,527.93	
26 05 13 16-0135 MLF 350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	16,785.65	
26 05 13 16-0136 MLF 500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	20,924.49	
26 05 13 16-0137 Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) (26 05 13 16-0116)		
26 05 13 16-0138 MLF #1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	7,558.34	1,016.73
26 05 13 16-0139 MLF 1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	8,930.20	1,171.52
26 05 13 16-0140 MLF 2/0 AWG, EPEPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)...	10,380.57	1,375.27
26 05 13 16-0141 MLF 3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	12,438.11	1,572.76
26 05 13 16-0142 MLF 4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	13,456.86	1,824.86
26 05 13 16-0143 MLF 250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	16,207.29	2,124.37
26 05 13 16-0144 MLF 350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	19,239.44	2,475.44
26 05 13 16-0145 MLF 500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	23,941.65	2,875.44
26 05 13 16-0146 15 KV Non-Shielded Single Copper Conductor (26 05 13 16-0085)		
26 05 13 16-0147 MLF 1/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	12,378.79	2,249.84
26 05 13 16-0148 MLF 2/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	10,824.66	2,303.63
26 05 13 16-0149 MLF 3/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	15,899.61	2,357.41
26 05 13 16-0150 MLF 350 MCM, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	21,613.27	2,514.51
26 05 13 16-0151 Shielded, Armored Copper, 15 KV, 3 Conductor Cable (26 05 13 16-0085)		
Note: Laid in cable tray or hung in vertical cable shaft.		
26 05 13 16-0152 Galvanized Steel Interlocked Armor Cable (26 05 13 16-0151)		
26 05 13 16-0153 LF 3 Conductors, #2 AWG, TC, 15 KV, Galvanized Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically.....	60.91	17.15
26 05 13 16-0154 LF 3 Conductors, 1/0 AWG, TC, 15 KV, Galvanized Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically.....	72.12	18.27
26 05 13 16-0155 Aluminum Interlocked Armor Cable (26 05 13 16-0151)		
26 05 13 16-0156 LF 3 Conductors, #2 AWG, TC, 15 KV, Aluminum Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically.....	60.91	17.15
26 05 13 16-0157 LF 3 Conductor, 1/0 AWG, TC, 15 KV, Aluminum Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically	72.12	18.27
26 05 13 16-0158 Type URD, 15 KV Primary Concentric UD Cable (26 05 13 16-0085)		
Note: 0.175" XLPE insulation, copper conductor.		
26 05 13 16-0159 MLF #4 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	4,386.03	1,125.00
26 05 13 16-0160 MLF #2 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	5,198.35	1,228.40
26 05 13 16-0161 MLF #1 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	6,209.16	1,387.90
26 05 13 16-0162 MLF 1/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	8,051.90	1,705.30
26 05 13 16-0163 MLF 2/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	9,170.87	1,919.78
26 05 13 16-0164 MLF 3/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	11,288.51	2,137.32
26 05 13 16-0165 MLF 4/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit.....	12,684.24	2,392.52
26 05 13 16-0166 15 KV, URD Copper Cable, Direct Burial (26 05 13 16-0085)		
26 05 13 16-0167 MLF 3 Conductors, #6 AWG, 15 KV, URD Copper Cable, Direct Burial.....	20,102.88	
26 05 13 16-0168 Wire Connections (26 05 13 16-0001)		
26 05 13 16-0169 Medium Voltage Up To 5 KV (26 05 13 16-0168)		
26 05 13 16-0170 Shielded One Conductor Cable Splice (26 05 13 16-0169)		
26 05 13 16-0171 EA #6 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	444.41	148.25
26 05 13 16-0172 EA #2 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	587.21	148.25
26 05 13 16-0173 EA 1/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	587.21	148.25
26 05 13 16-0174 EA 2/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	631.33	177.89
26 05 13 16-0175 EA 3/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	631.33	177.89
26 05 13 16-0176 EA 4/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	631.33	177.89
26 05 13 16-0177 EA 250 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	690.15	207.55
26 05 13 16-0178 EA 350 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	690.15	207.55
26 05 13 16-0179 EA 500 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	690.15	207.55
26 05 13 16-0180 Cable Termination Without Stress Cone (26 05 13 16-0169)		
26 05 13 16-0181 EA #6 To 4/0 AWG Cable Termination Without Stress Cone, Medium Voltage To 5 KV	656.05	177.89
26 05 13 16-0182 EA 250 To 500 MCM Cable Termination Without Stress Cone, Medium Voltage To 5 KV	757.44	207.55
26 05 13 16-0183 Cable Termination With Stress Cone (26 05 13 16-0169)		
26 05 13 16-0184 EA #6 To 4/0 AWG Cable Termination With Stress Cone, Medium Voltage To 5 KV	1,933.10	355.78
26 05 13 16-0185 EA 250 To 500 MCM Cable Termination With Stress Cone, Medium Voltage To 5 KV	2,658.49	489.20

26 Electrical**26 05 Common Work Results for Electrical****26 05 13 Medium-Voltage Cables**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0186		Connect To Pothead, Pothead Included (26 05 13 16-0169)		
26 05 13 16-0187	EA	#6 To 4/0 AWG Connection To Pothead (Included) Medium Voltage To 5 KV.....	2,019.34	355.78
26 05 13 16-0188	EA	250 To 500 MCM Connection To Pothead (Included) Medium Voltage To 5 KV.....	2,580.06	407.67
26 05 13 16-0189		Two Conductor Pothead (26 05 13 16-0169)		
		Note: Includes 5 KV pothead.		
26 05 13 16-0190	EA	#6 To 4/0 AWG, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	1,507.84	489.20
26 05 13 16-0191	EA	250 To 350 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	2,014.69	622.63
26 05 13 16-0192	EA	400 To 700 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	3,046.24	705.94
26 05 13 16-0193	EA	750 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	4,915.96	823.64
26 05 13 16-0194	EA	1,000 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	9,008.35	1,235.31
26 05 13 16-0195		Three Conductor Pothead (26 05 13 16-0169)		
		Note: Includes 5 KV pothead.		
26 05 13 16-0196	EA	#6 To 4/0 AWG, Three Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	5,963.75	711.57
26 05 13 16-0197	EA	250 To 500 MCM, Three Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV.....	6,536.22	830.16
26 05 13 16-0198		Copper Cable Splice, Crimp Compression Connection (26 05 13 16-0169)		
		Note: For bare wire.		
26 05 13 16-0199	EA	#6 AWG Crimp Compression Connection For Bare Copper Wire.....	94.04	
26 05 13 16-0200	EA	#4 AWG Crimp Compression Connection For Bare Copper Wire.....	103.93	
26 05 13 16-0201	EA	#3 AWG Crimp Compression Connection For Bare Copper Wire.....	121.17	
26 05 13 16-0202	EA	#2 AWG Crimp Compression Connection For Bare Copper Wire.....	137.19	
26 05 13 16-0203	EA	#1 AWG Crimp Compression Connection For Bare Copper Wire.....	154.92	
26 05 13 16-0204	EA	1/0 AWG Crimp Compression Connection For Bare Copper Wire.....	171.98	
26 05 13 16-0205	EA	2/0 AWG Crimp Compression Connection For Bare Copper Wire.....	188.77	
26 05 13 16-0206	EA	3/0 AWG Crimp Compression Connection For Bare Copper Wire.....	206.70	
26 05 13 16-0207	EA	4/0 AWG Crimp Compression Connection For Bare Copper Wire.....	223.93	
26 05 13 16-0208	EA	250 MCM Crimp Compression Connection For Bare Copper Wire.....	241.70	
26 05 13 16-0209	EA	300 MCM Crimp Compression Connection For Bare Copper Wire.....	260.12	
26 05 13 16-0210	EA	350 MCM Crimp Compression Connection For Bare Copper Wire.....	276.94	
26 05 13 16-0211	EA	400 MCM Crimp Compression Connection For Bare Copper Wire.....	313.38	
26 05 13 16-0212	EA	500 MCM Crimp Compression Connection For Bare Copper Wire.....	351.40	
26 05 13 16-0213		Aluminum Cable Splice, Crimp Compression Connection (26 05 13 16-0169)		
		Note: For bare wire.		
26 05 13 16-0214	EA	#6 AWG Crimp Compression Connection For Bare Aluminum Wire.....	97.12	
26 05 13 16-0215	EA	#4 AWG Crimp Compression Connection For Bare Aluminum Wire.....	105.63	
26 05 13 16-0216	EA	#2 AWG Crimp Compression Connection For Bare Aluminum Wire.....	142.80	
26 05 13 16-0217	EA	#1 AWG Crimp Compression Connection For Bare Aluminum Wire.....	169.19	
26 05 13 16-0218	EA	1/0 AWG Crimp Compression Connection For Bare Aluminum Wire.....	185.45	
26 05 13 16-0219	EA	2/0 AWG Crimp Compression Connection For Bare Aluminum Wire.....	201.64	
26 05 13 16-0220	EA	3/0 AWG Crimp Compression Connection For Bare Aluminum Wire.....	221.64	
26 05 13 16-0221	EA	4/0 AWG Crimp Compression Connection For Bare Aluminum Wire.....	239.73	
26 05 13 16-0222	EA	250 MCM Crimp Compression Connection For Bare Aluminum Wire.....	257.12	
26 05 13 16-0223	EA	300 MCM Crimp Compression Connection For Bare Aluminum Wire.....	275.19	
26 05 13 16-0224	EA	350 MCM Crimp Compression Connection For Bare Aluminum Wire.....	292.77	
26 05 13 16-0225	EA	400 MCM Crimp Compression Connection For Bare Aluminum Wire.....	336.05	
26 05 13 16-0226	EA	500 MCM Crimp Compression Connection For Bare Aluminum Wire.....	379.69	
26 05 13 16-0227		15 KV (26 05 13 16-0168)		
26 05 13 16-0228		Single Conductor Pothead On Racks (26 05 13 16-0227)		
		Note: Includes pothead.		
26 05 13 16-0229	EA	#2 To 4/0 AWG, Single Conductor, 15 KV Pothead (Included), On Racks.....	1,834.51	622.63
26 05 13 16-0230	EA	250 To 500 MCM, Single Conductor, 15 KV Pothead (Included), On Racks.....	2,338.38	770.86
26 05 13 16-0231		Two Conductor Pothead On Rack (26 05 13 16-0227)		
		Note: Includes pothead.		
26 05 13 16-0232	EA	#2 To 4/0 AWG, Two Conductors, 15 KV Pothead (Included), On Racks.....	2,708.63	948.75
26 05 13 16-0233	EA	250 To 500 MCM, Two Conductors, 15 KV Pothead (Included), On Racks.....	3,254.42	1,126.65
26 05 13 16-0234		Three Conductor Pothead On Rack (26 05 13 16-0227)		
		Note: Includes pothead.		
26 05 13 16-0235	EA	#2 To 4/0 AWG, Three Conductors, 15 KV Pothead (Included), On Racks.....	3,461.57	1,230.42
26 05 13 16-0236	EA	250 To 500 MCM, Three Conductors, 15 KV Pothead (Included), On Racks.....	4,313.06	1,541.74
26 05 13 16-0237		Stress Relief Cone On Rack (26 05 13 16-0227)		
26 05 13 16-0238	EA	#2 To 4/0 AWG Stress Relief Cone, On Rack.....	1,730.31	622.63
26 05 13 16-0239	EA	250 To 500 MCM Stress Relief Cone, On Rack.....	2,221.22	770.86



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0240 Grounded, Shielded Cable Splice (26 05 13 16-0227)		
26 05 13 16-0241 EA #2 To 4/0 AWG Cable Splice, Grounded, Shielded, 15 KV	1,197.48	459.55
26 05 13 16-0242 EA 250 To 500 MCM Cable Splice, Grounded, Shielded, 15 KV	1,534.87	592.97
26 05 13 16-0243 EA 3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE 2-Way	7,198.77	1,630.68
26 05 13 16-0244 EA 3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE - CE 3-Way	9,198.04	1,778.93
26 05 13 16-0245 Cable Termination (26 05 13 16-0227)		
26 05 13 16-0246 EA #2 To 3/0 AWG Cable Termination 15 KV	787.81	259.43
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	155.66	
26 05 13 16-0247 EA 4/0 To 250 MCM Cable Termination 15 KV	996.17	333.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	200.13	
26 05 13 16-0248 EA 350 To 500 MCM Cable Termination 15 KV	1,234.14	407.67
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	244.60	
26 05 13 16-0249 EA #2 To 3/0 AWG Cable Elbow Termination 15 KV	499.37	148.25
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	88.95	
26 05 13 16-0250 Stress Cones, 5-15 KV, 4 Skirted (26 05 13 16-0227)		
26 05 13 16-0251 EA #4 To 1/0 AWG Stress Cones, 5-15 KV, 4 Skirted.....	985.69	192.72
26 05 13 16-0252 EA 2/0 To 3/0 AWG Stress Cones, 5-15 KV, 4 Skirted.....	1,121.72	212.99
26 05 13 16-0253 EA 4/0 To 350 MCM Stress Cones, 5-15 KV, 4 Skirted.....	1,329.27	233.10
26 05 13 16-0254 EA 400 To 500 MCM Stress Cones, 5-15 KV, 4 Skirted.....	1,705.14	268.56
26 05 13 16-0255 Stress Cones, 5-15 KV, 6 Skirted (26 05 13 16-0227)		
26 05 13 16-0256 EA #4 To 1/0 AWG Stress Cones, 5-15 KV, 6 Skirted.....	1,971.42	386.09
26 05 13 16-0257 EA 2/0 To 3/0 AWG Stress Cones, 5-15 KV, 6 Skirted.....	2,243.69	425.99
26 05 13 16-0258 EA 4/0 To 350 MCM Stress Cones, 5-15 KV, 6 Skirted.....	2,641.25	457.54
26 05 13 16-0259 EA 400 To 500 MCM Stress Cones, 5-15 KV, 6 Skirted.....	3,410.29	537.12
26 05 13 16-0260 35 KV (26 05 13 16-0168)		
26 05 13 16-0261 35 KV One Conductor Splice (26 05 13 16-0260)		
26 05 13 16-0262 EA #1 Stranded To 4/0 Stranded, 35 KV, Cable Splicing	2,990.48	
26 05 13 16-0263 Cable Termination (26 05 13 16-0260)		
26 05 13 16-0264 EA #2 To 3/0 AWG Cable Termination, 35 KV	680.59	178.04
26 05 13 16-0265 EA 3/0 AWG To 250 MCM, 35 KV, Cable Termination.....	934.24	268.62
26 05 13 16-0266 EA 350 To 500 MCM Cable Termination 35 KV	1,080.00	287.30
26 05 13 16-0267 EA #2 To 3/0 AWG Cable Elbow Termination 35 KV	541.33	148.25
26 05 13 16-0268 70 KV (26 05 13 16-0168)		
26 05 13 16-0269 Cable Splice (26 05 13 16-0268)		
26 05 13 16-0270 EA 350 MCM, 70 KV, Cable Splicing.....	15,130.76	
26 05 13 16-0271 EA #2 To 4/0, 70 KV, Cable Splicing	3,095.89	
26 05 19 Low-Voltage Electrical Power Conductors and Cables (26 05)		
26 05 19 16 Low-Voltage, Single-and Multi-Conductor Cables (26 05 19)		
26 05 19 16-0001 Cable Installation Methods (26 05 19 16)		
26 05 19 16-0002 Pull Cord (26 05 19 16-0001)		
Note: Left in conduit for others to pull cable. Not to be used when contractor has priced new wire in a conduit. Priced when owner wants a pull cord left in a conduit for owner to pull wire at a later time.		
26 05 19 16-0003 LF Pull String Installed To Remain In Place, In Existing Conduit.....	0.46	
26 05 19 16-0004 LF Pull String Installed To Remain In Place, In New Conduits	0.24	
26 05 19 16-0005 LF 1/4" Nylon Pull Cord Installed To Remain In Place, In Existing Conduit	0.76	
26 05 19 16-0006 LF 1/4" Nylon Pull Cord Installed To Remain In Place, In New Conduits.....	0.47	
26 05 19 16-0007 Bore Conduit Into Dirt Or Sand (26 05 19 16-0001)		
Note: For installation under roads, driveways or other structures up to 20'.		
26 05 19 16-0008 LF Bore 1" To 4" Conduit Into Dirt Or Sand	3.11	
26 05 19 16-0009 LF Bore 5" To 8" Conduit Into Dirt Or Sand	3.96	
26 05 19 16-0010 EA Boring Minimum Set-Up Charge	435.60	
Note: For projects where the total boring charge is less than the minimum set-up charge. Use this item exclusively. This item should not be used in conjunction with any other items in this section.		

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 05 19 16-0011	Wire and Cable (26 05 19 16)			
	Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, splicing (#8 and lighter), identifying, tagging and testing. All conductors are copper except as otherwise noted. No special set-up is required. For tasks installed in conduit, tasks exclude conduit. Excludes terminations. See CSI section 26 05 33 13-0057 for various conduit types.			
26 05 19 16-0012	600 Volt Wire (26 05 19 16-0011)			
26 05 19 16-0013	Single Solid Conductor, Copper (26 05 19 16-0012)			
26 05 19 16-0014	MLF	#14 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	796.94	328.74
26 05 19 16-0015	MLF	#12 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	992.45	386.71
26 05 19 16-0016	MLF	#10 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,219.58	472.86
26 05 19 16-0017	MLF	#14 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,016.96	328.74
26 05 19 16-0018	MLF	#12 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,224.59	386.71
26 05 19 16-0019	MLF	#10 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,461.89	472.86
26 05 19 16-0020	Power Cable, Stranded Conductor, Copper (26 05 19 16-0021)			
26 05 19 16-0021	Power Cable, Stranded, Single Conductor, XHHW-2 (26 05 19 16-0020)			
26 05 19 16-0022	MLF	#16 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	835.93	270.90
26 05 19 16-0023	MLF	#14 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	988.14	325.08
26 05 19 16-0024	MLF	#12 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	1,211.19	379.27
26 05 19 16-0025	MLF	#10 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	1,482.03	433.45
26 05 19 16-0026	MLF	#8 AWG, XLP (XHHW-2), 600 Volt, Copper, Single Stranded, Power Cable, Installed In Conduit.....	1,966.44	541.80
26 05 19 16-0027	MLF	#6 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	2,637.15	650.17
26 05 19 16-0028	MLF	#4 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	3,591.94	812.71
26 05 19 16-0029	MLF	#3 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	4,240.25	921.07
26 05 19 16-0030	MLF	#2 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	5,006.25	1,029.44
26 05 19 16-0031	MLF	#1 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	6,173.31	1,137.80
26 05 19 16-0032	MLF	1/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	7,391.25	1,300.34
26 05 19 16-0033	MLF	2/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	8,831.60	1,462.88
26 05 19 16-0034	MLF	3/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	10,541.35	1,625.42
26 05 19 16-0035	MLF	4/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	12,594.29	1,787.97
26 05 19 16-0036	MLF	250 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	13,360.15	1,950.51
26 05 19 16-0037	MLF	300 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	15,794.45	2,113.06
26 05 19 16-0038	MLF	350 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	16,854.14	2,275.59
26 05 19 16-0039	MLF	400 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	18,827.08	2,438.14
26 05 19 16-0040	MLF	500 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	21,748.12	2,600.68
26 05 19 16-0041	MLF	600 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	25,004.13	2,817.40
26 05 19 16-0042	MLF	750 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	37,738.37	3,142.48
26 05 19 16-0043	MLF	1,000 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	53,053.12	3,684.30
26 05 19 16-0044	Power Cable, Stranded, Multi Conductor, XHHW-2 (26 05 19 16-0020)			
26 05 19 16-0045	MLF	2 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	1,976.28	650.03
26 05 19 16-0046	MLF	3 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	2,422.62	758.67
26 05 19 16-0047	MLF	4 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,004.55	921.07
26 05 19 16-0048	MLF	6 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,557.37	1,001.94
26 05 19 16-0049	MLF	7 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,869.04	1,056.39
26 05 19 16-0050	MLF	9 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	4,490.33	1,164.62
26 05 19 16-0051	MLF	10 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,210.08	1,213.92
26 05 19 16-0052	MLF	12 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,423.81	1,327.43
26 05 19 16-0053	MLF	14 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,978.38	1,408.98
26 05 19 16-0054	MLF	24 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	8,680.62	1,788.10
26 05 19 16-0055	MLF	37 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	13,128.20	2,654.86
26 05 19 16-0056	MLF	2 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	2,422.70	758.67
26 05 19 16-0057	MLF	3 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,091.88	921.07
26 05 19 16-0058	MLF	4 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,761.11	1,083.62
26 05 19 16-0059	MLF	2 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,233.90	974.84
26 05 19 16-0060	MLF	3 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	4,172.61	1,190.89
26 05 19 16-0061	MLF	4 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,386.94	1,517.33
26 05 19 16-0062	MLF	6 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	7,268.39	1,951.19
26 05 19 16-0063	MLF	9 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	9,816.73	2,492.45
26 05 19 16-0064	MLF	2 Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	4,000.61	1,110.71
26 05 19 16-0065	MLF	3 Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,086.61	1,300.34
26 05 19 16-0066	MLF	4 Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	6,578.97	1,652.51
26 05 19 16-0067	MLF	2 Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,138.99	1,246.16
26 05 19 16-0068	MLF	3 Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	6,895.57	1,544.16
26 05 19 16-0069	MLF	4 Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	8,808.04	1,904.45
26 05 19 16-0070	MLF	2 Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	6,900.00	1,511.92
26 05 19 16-0071	MLF	3 Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	9,003.82	1,729.32
26 05 19 16-0072	MLF	4 Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	11,635.57	2,158.02
26 05 19 16-0073	MLF	2 Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	9,469.31	1,841.60
26 05 19 16-0074	MLF	3 Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	12,446.48	2,059.42
26 05 19 16-0075	MLF	4 Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	16,503.24	2,709.04
26 05 19 16-0076	MLF	3 Conductors, #1 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	16,487.04	2,600.27
26 05 19 16-0077	MLF	4 Conductors, #1 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	21,438.91	3,249.50
26 05 19 16-0078	MLF	3 Conductors, 1/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	19,465.95	2,817.94
26 05 19 16-0079	MLF	3 Conductors, 2/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	23,646.86	3,249.50
26 05 19 16-0080	MLF	3 Conductors, 3/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	28,910.91	3,791.03



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0081	MLF	4	Conductors, 3/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	38,096.56	4,874.24
26 05 19 16-0082	MLF	3	Conductors, 4/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	35,218.59	4,338.13
26 05 19 16-0083	MLF	3	Conductors, 250 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	37,637.05	4,874.24
26 05 19 16-0084	MLF	3	Conductors, 350 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	47,040.63	5,418.08
26 05 19 16-0085	MLF	3	Conductors, 500 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit	60,626.16	5,954.74
26 05 19 16-0086 Underground Feeder And Branch Circuit Suitable, Single Stranded Copper					
(26 05 19 16-0012)					
Note: Direct bury.					
26 05 19 16-0087	MLF	#14	AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,330.67	
26 05 19 16-0088	MLF	#12	AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,569.05	
26 05 19 16-0089	MLF	#10	AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,004.49	
26 05 19 16-0090	MLF	#8	AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,662.79	
26 05 19 16-0091	MLF	#6	AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	3,823.64	
26 05 19 16-0092	MLF	#4	AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,075.77	
26 05 19 16-0093	MLF	#2	AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,465.52	
26 05 19 16-0094	MLF	#1	AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,411.35	
26 05 19 16-0095	MLF	1/0	AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	11,626.97	
26 05 19 16-0096	MLF	2/0	AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	14,186.17	
26 05 19 16-0097	MLF	3/0	AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	17,220.83	
26 05 19 16-0098	MLF	4/0	AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	19,495.37	
26 05 19 16-0099	MLF	250	MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	21,099.44	
26 05 19 16-0100	MLF	300	MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	25,452.74	
26 05 19 16-0101	MLF	350	MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	28,532.53	
26 05 19 16-0102	MLF	400	MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	32,158.73	
26 05 19 16-0103	MLF	500	MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	38,337.00	
26 05 19 16-0104	MLF	600	MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	45,451.01	
26 05 19 16-0105	MLF	750	MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	73,468.34	
26 05 19 16-0106	MLF	#14	AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	981.03	
26 05 19 16-0107	MLF	#12	AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,173.47	
26 05 19 16-0108	MLF	#10	AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,399.70	
26 05 19 16-0109	MLF	#8	AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,719.48	
26 05 19 16-0110	MLF	#6	AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,199.51	
26 05 19 16-0111	MLF	#4	AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,911.50	
26 05 19 16-0112	MLF	#2	AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	3,933.89	
26 05 19 16-0113	MLF	#1	AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,633.82	
26 05 19 16-0114	MLF	1/0	AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,248.48	
26 05 19 16-0115	MLF	2/0	AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,914.66	
26 05 19 16-0116	MLF	3/0	AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,854.00	
26 05 19 16-0117	MLF	4/0	AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,980.88	
26 05 19 16-0118	MLF	250	MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,032.59	
26 05 19 16-0119	MLF	300	MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,139.63	
26 05 19 16-0120	MLF	350	MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	11,337.60	
26 05 19 16-0121	MLF	400	MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	12,575.17	
26 05 19 16-0122	MLF	500	MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	14,584.62	
26 05 19 16-0123	MLF	750	MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	24,079.18	
26 05 19 16-0124	MLF	#14	AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	821.65	
26 05 19 16-0125	MLF	#12	AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,019.29	
26 05 19 16-0126	MLF	#10	AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,258.50	
26 05 19 16-0127	MLF	#8	AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,759.27	
26 05 19 16-0128	MLF	#6	AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,383.13	
26 05 19 16-0129	MLF	#4	AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	3,137.39	
26 05 19 16-0130	MLF	#2	AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,468.91	
26 05 19 16-0131	MLF	#1	AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,313.08	
26 05 19 16-0132	MLF	1/0	AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,180.14	
26 05 19 16-0133	MLF	2/0	AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,006.26	
26 05 19 16-0134	MLF	3/0	AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	8,292.39	
26 05 19 16-0135	MLF	4/0	AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,864.86	
26 05 19 16-0136	MLF	250	MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	11,564.05	
26 05 19 16-0137	MLF	300	MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	13,333.44	
26 05 19 16-0138	MLF	350	MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	15,233.48	
26 05 19 16-0139	MLF	400	MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	17,067.61	
26 05 19 16-0140	MLF	500	MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	20,228.30	
26 05 19 16-0141	MLF	600	MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	24,286.05	
26 05 19 16-0142	MLF	750	MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	38,186.85	
26 05 19 16-0143	MLF	#2	AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,513.39	
26 05 19 16-0144	MLF	1/0	AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,305.60	
26 05 19 16-0145	MLF	2/0	AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,336.73	

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0146 MLF 3/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	11,731.58	
26 05 19 16-0147 MLF 4/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	13,033.58	
26 05 19 16-0148 MLF 250 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	14,051.96	
26 05 19 16-0149 MLF 350 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	20,014.70	
26 05 19 16-0150 MLF 400 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	21,749.49	
26 05 19 16-0151 MLF 500 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	24,758.93	
26 05 19 16-0152 600 Volt, Armored Cable, Copper Conductors (26 05 19 16-0012)		
26 05 19 16-0153 ACTHH, Solid (26 05 19 16-0152)		
26 05 19 16-0154 MLF 1 Conductor, #8 AWG, Type ACT, Solid, Armored Cable.....	3,159.05	889.46
26 05 19 16-0155 MLF 1 Conductor, #6 AWG, Type ACT, Solid, Armored Cable.....	3,642.61	1,008.05
26 05 19 16-0156 MLF 1 Conductor, #4 AWG, Type ACT, Solid, Armored Cable.....	4,164.12	1,067.35
26 05 19 16-0157 MLF 2 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	4,565.03	1,482.44
26 05 19 16-0158 MLF 2 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	4,894.38	1,660.03
26 05 19 16-0159 MLF 2 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	6,184.40	1,839.25
26 05 19 16-0160 MLF 2 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	8,065.29	2,016.86
26 05 19 16-0161 MLF 3 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	5,513.91	1,660.03
26 05 19 16-0162 MLF 3 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	5,781.16	1,839.25
26 05 19 16-0163 MLF 3 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	7,379.78	2,076.30
26 05 19 16-0164 MLF 3 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	9,565.73	2,253.00
26 05 19 16-0165 MLF 4 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	6,568.37	1,839.25
26 05 19 16-0166 MLF 4 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	7,200.36	2,076.30
26 05 19 16-0167 MLF 4 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	9,146.88	2,312.75
26 05 19 16-0168 MLF 4 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	11,841.65	2,491.53
26 05 19 16-0169 ACTHH, Stranded (26 05 19 16-0152)		
26 05 19 16-0170 MLF 2 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	8,363.18	2,136.04
26 05 19 16-0171 MLF 2 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	10,193.16	2,430.15
26 05 19 16-0172 MLF 3 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	9,863.12	2,371.90
26 05 19 16-0173 MLF 3 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	12,361.11	2,666.31
26 05 19 16-0174 MLF 3 Conductors, #4 AWG, Type ACTHH, Stranded, Armored Cable.....	15,631.81	2,964.87
26 05 19 16-0175 MLF 3 Conductors, #3 AWG, Type ACTHH, Stranded, Armored Cable.....	17,967.90	3,258.10
26 05 19 16-0176 MLF 3 Conductors, #2 AWG, Type ACTHH, Stranded, Armored Cable.....	20,584.73	3,555.02
26 05 19 16-0177 MLF 4 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	12,726.35	2,845.38
26 05 19 16-0178 MLF 4 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	15,400.39	3,140.69
26 05 19 16-0179 MLF 4 Conductors, #4 AWG, Type ACTHH, Stranded, Armored Cable.....	19,797.18	3,439.55
26 05 19 16-0180 MLF 4 Conductors, #3 AWG, Type ACTHH, Stranded, Armored Cable.....	21,695.17	3,734.11
26 05 19 16-0181 MLF 4 Conductors, #2 AWG, Type ACTHH, Stranded, Armored Cable.....	25,731.51	4,028.37
26 05 19 16-0182 HCFC, Solid (26 05 19 16-0152)		
26 05 19 16-0183 MLF 2 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	5,104.55	1,482.44
26 05 19 16-0184 MLF 2 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	5,590.10	1,665.66
26 05 19 16-0185 MLF 2 Conductors, #10 AWG, Type HCF, Solid, Armored Cable.....	6,247.55	1,830.22
26 05 19 16-0186 MLF 3 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	6,184.66	1,665.66
26 05 19 16-0187 MLF 3 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	6,636.60	1,830.22
26 05 19 16-0188 MLF 3 Conductors, #10 AWG, Type HCF, Solid, Armored Cable.....	8,672.29	2,088.01
26 05 19 16-0189 MLF 4 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	7,593.64	1,830.22
26 05 19 16-0190 MLF 4 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	8,299.07	2,088.01
26 05 19 16-0191 MLF 4 Conductors, #10 AWG, Type HCF, Solid, Armored Cable.....	11,331.95	2,316.31
26 05 19 16-0192 MC, Solid Or Stranded, Galvanized Steel Armor (26 05 19 16-0152)		
26 05 19 16-0193 MLF 2 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	4,425.60	1,482.44
26 05 19 16-0194 MLF 2 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	4,946.71	1,665.66
26 05 19 16-0195 MLF 2 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	5,883.97	1,830.22
26 05 19 16-0196 MLF 2 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	7,385.53	1,955.77
26 05 19 16-0197 MLF 2 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	9,064.87	2,073.34
26 05 19 16-0198 MLF 3 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	5,094.72	1,665.66
26 05 19 16-0199 MLF 3 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	5,730.48	1,830.22
26 05 19 16-0200 MLF 3 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	7,196.10	2,088.01
26 05 19 16-0201 MLF 3 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	9,185.78	2,253.00
26 05 19 16-0202 MLF 3 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	10,668.92	2,430.15
26 05 19 16-0203 MLF 3 Conductors, #4 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	13,059.89	2,609.98
26 05 19 16-0204 MLF 3 Conductors, #2 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	17,770.26	2,786.54
26 05 19 16-0205 MLF 4 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	5,870.54	1,830.22
26 05 19 16-0206 MLF 4 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	6,722.18	2,088.01
26 05 19 16-0207 MLF 4 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	9,859.02	2,316.31
26 05 19 16-0208 MLF 4 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	13,162.79	2,551.57
26 05 19 16-0209 MLF 4 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	15,950.00	2,730.05
26 05 19 16-0210 MLF 4 Conductors, #4 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	20,801.90	2,906.76
26 05 19 16-0211 MLF 4 Conductors, #2 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable.....	26,637.06	3,081.98
26 05 19 16-0212 MC, Solid Or Stranded, Aluminum Armor (26 05 19 16-0152)		
26 05 19 16-0213 MLF 2 Conductors, #14 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable.....	4,393.75	1,482.44
26 05 19 16-0214 MLF 2 Conductors, #12 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable.....	4,864.12	1,665.66



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0215 MLF 2 Conductors, #10 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	5,810.93	1,830.22
26 05 19 16-0216 MLF 3 Conductors, #14 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	5,227.74	1,665.66
26 05 19 16-0217 MLF 3 Conductors, #12 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	5,657.10	1,830.22
26 05 19 16-0218 MLF 3 Conductors, #10 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	7,138.07	2,088.01
26 05 19 16-0219 MLF 4 Conductors, #14 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	6,502.95	1,830.22
26 05 19 16-0220 MLF 4 Conductors, #12 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	7,180.53	2,088.01
26 05 19 16-0221 MLF 4 Conductors, #10 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable	9,859.02	2,316.31
26 05 19 16-0222 FPLP Solid TFN Red Armored Cable (26 05 19 16-0152)		
Note: Color coded red.		
26 05 19 16-0223 MLF #18/2 With Bare #18 Ground Type TFN FPLP Red Armored Cable	4,453.01	1,126.65
26 05 19 16-0224 MLF #18/4 With Bare #18 Ground Type TFN FPLP Red Armored Cable	5,063.52	1,304.55
26 05 19 16-0225 MLF #18/6 With Bare #18 Ground Type TFN FPLP Red Armored Cable	6,241.10	1,482.44
26 05 19 16-0226 MLF #18/8 With Bare #18 Ground Type TFN FPLP Red Armored Cable	7,147.90	1,660.33
26 05 19 16-0227 MLF #16/2 With Bare #16 Ground Type TFN FPLP Red Armored Cable	5,074.32	1,304.55
26 05 19 16-0228 MLF #16/4 With Bare #16 Ground Type TFN FPLP Red Armored Cable	5,982.11	1,482.44
26 05 19 16-0229 MLF #16/6 With Bare #16 Ground Type TFN FPLP Red Armored Cable	7,458.89	1,660.33
26 05 19 16-0230 MLF #16/8 With Bare #16 Ground Type TFN FPLP Red Armored Cable	8,471.65	1,838.22
26 05 19 16-0231 FPLP Solid THHN Red Armored Cable (26 05 19 16-0152)		
Note: Color coded red.		
26 05 19 16-0232 MLF #14/2 With #14 Ground Type THHN FPLP Red Armored Cable	5,645.61	1,482.44
26 05 19 16-0233 MLF #14/4 With #14 Ground Type THHN FPLP Red Armored Cable	6,962.49	1,660.33
26 05 19 16-0234 MLF #14/6 With #14 Ground Type THHN FPLP Red Armored Cable	9,165.24	1,838.22
26 05 19 16-0235 MLF #14/8 With #14 Ground Type THHN FPLP Red Armored Cable	10,595.92	2,016.11
26 05 19 16-0236 MLF #12/2 With #12 Ground Type THHN FPLP Red Armored Cable	7,066.48	1,660.33
26 05 19 16-0237 MLF #12/4 With #12 Ground Type THHN FPLP Red Armored Cable	8,595.26	1,838.22
26 05 19 16-0238 FPLP Twisted Shielded Pair Red Armored Cable (26 05 19 16-0152)		
Note: Color coded red.		
26 05 19 16-0239 MLF #18/2 With #18 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable	4,806.18	1,126.65
26 05 19 16-0240 MLF #18/2 With #18 Tinned Ground And #14/2 With #14 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable	7,662.95	1,660.33
26 05 19 16-0241 MLF #16/2 With #16 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable	5,889.56	1,304.55
26 05 19 16-0242 MLF #16/4 With Two #16 Tinned Grounds FPLP Twisted Shielded Pair Red Armored Cable	6,941.57	1,482.44
26 05 19 16-0243 MLF #16/2 With #16 Tinned Ground And #12/2 With #12 Ground FPLP Twisted Shielded Pair Red Armored Cable	9,593.96	1,838.22
26 05 19 16-0244 MLF #14/2 With One #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable	6,902.44	1,541.74
26 05 19 16-0245 MLF #14/4 With Two #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable	8,494.11	1,778.93
26 05 19 16-0246 Armored Cable Connectors (26 05 19 16-0152)		
26 05 19 16-0247 EA 3/4" Armored Cable Connector	8.86	3.25
For Work In Restricted Working Space, Add	2.44	
For Elevated Installation >10' To 15', Add	0.61	
For Elevated Installation >15' To 20', Add	1.63	
For Elevated Installation >20' To 25', Add	2.03	
For Elevated Installation >25' To 30', Add	2.85	
For Elevated Installation >30' To 35', Add	3.25	
For Elevated Installation >35' To 40', Add	4.07	
For Elevated Installation >40', Add	4.47	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.44	
26 05 19 16-0248 EA 1" Armored Cable Connector	11.82	4.34
For Work In Restricted Working Space, Add	3.25	
For Elevated Installation >10' To 15', Add	1.08	
For Elevated Installation >15' To 20', Add	2.17	
For Elevated Installation >20' To 25', Add	2.71	
For Elevated Installation >25' To 30', Add	3.79	
For Elevated Installation >30' To 35', Add	4.33	
For Elevated Installation >35' To 40', Add	5.42	
For Elevated Installation >40', Add	5.96	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.25	
26 05 19 16-0249 EA 1-1/4" Armored Cable Connector	14.85	5.42
For Work In Restricted Working Space, Add	4.07	
For Elevated Installation >10' To 15', Add	1.36	
For Elevated Installation >15' To 20', Add	2.71	
For Elevated Installation >20' To 25', Add	3.39	
For Elevated Installation >25' To 30', Add	4.74	
For Elevated Installation >30' To 35', Add	5.42	
For Elevated Installation >35' To 40', Add	6.78	
For Elevated Installation >40', Add	7.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.07	
26 05 19 16-0250 600 Volt, Feeder Wire, Single Stranded Copper (26 05 19 16-0012)		
26 05 19 16-0251 MLF #14 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,097.18	217.13
For EPR Insulation, Add	42.67	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	99.56	
26 05 19 16-0252 MLF #12 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,238.16	240.43
For EPR Insulation, Add	43.50	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	101.50	

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0253 MLF #10 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,507.00	300.56
For EPR Insulation, Add	63.51	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	148.18	
26 05 19 16-0254 MLF #8 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,050.55	478.14
For EPR Insulation, Add	104.40	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	243.61	
26 05 19 16-0255 MLF #6 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,795.02	573.77
For EPR Insulation, Add	175.44	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	409.36	
26 05 19 16-0256 MLF #4 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,801.24	666.15
For EPR Insulation, Add	265.42	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	619.31	
26 05 19 16-0257 MLF #3 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	4,336.23	762.46
For EPR Insulation, Add	305.03	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	711.74	
26 05 19 16-0258 MLF #2 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	5,447.43	858.76
For EPR Insulation, Add	431.08	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,005.84	
26 05 19 16-0259 MLF #1 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	6,727.52	956.43
For EPR Insulation, Add	582.45	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,359.06	
26 05 19 16-0260 MLF 1/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	8,100.48	1,079.01
For EPR Insulation, Add	727.45	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,697.37	
26 05 19 16-0261 MLF 2/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	9,753.30	1,196.58
For EPR Insulation, Add	914.42	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	2,133.64	
26 05 19 16-0262 MLF 3/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	11,681.39	1,335.82
For EPR Insulation, Add	1,142.67	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	2,666.24	
26 05 19 16-0263 MLF 4/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	13,169.44	1,485.23
For EPR Insulation, Add	1,304.93	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	3,044.83	
26 05 19 16-0264 MLF 250 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	14,031.50	1,628.94
For EPR Insulation, Add	1,373.28	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	3,204.33	
26 05 19 16-0265 MLF 300 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	16,528.34	1,790.68
For EPR Insulation, Add	1,686.86	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	3,936.00	
26 05 19 16-0266 MLF 350 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	18,425.25	1,898.36
For EPR Insulation, Add	1,910.44	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	4,457.69	
26 05 19 16-0267 MLF 400 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	20,626.78	2,121.73
For EPR Insulation, Add	2,179.71	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	5,086.00	
26 05 19 16-0268 MLF 500 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	23,541.21	2,359.71
For EPR Insulation, Add	2,555.93	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	5,963.83	
26 05 19 16-0269 MLF 600 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	27,528.23	2,455.07
For EPR Insulation, Add	3,072.71	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	7,169.66	
26 05 19 16-0270 MLF 750 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	44,437.67	2,550.29
For EPR Insulation, Add	5,487.22	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	12,803.51	
26 05 19 16-0271 MLF 1,000 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	55,861.16	2,725.03
For EPR Insulation, Add	7,119.47	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	16,612.10	
26 05 19 16-0272 MLF #16 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,866.56	487.35
26 05 19 16-0273 MLF #14 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	2,316.30	541.80
26 05 19 16-0274 MLF #12 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	2,899.35	650.71
26 05 19 16-0275 MLF #10 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,434.15	758.26
26 05 19 16-0276 MLF #8 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	5,033.13	811.90
26 05 19 16-0277 MLF #18 AWG, Type TFFN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	624.98	270.90
26 05 19 16-0278 MLF #16 AWG, Type TFFN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	779.63	298.00
26 05 19 16-0279 MLF #14 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	814.78	217.26
26 05 19 16-0280 MLF #12 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,009.46	258.99
26 05 19 16-0281 MLF #10 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,243.76	325.77
26 05 19 16-0282 MLF #8 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	1,733.54	429.38
26 05 19 16-0283 MLF #6 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	2,340.59	518.51
26 05 19 16-0284 MLF #4 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,071.84	612.78
26 05 19 16-0285 MLF #3 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,663.73	693.65
26 05 19 16-0286 MLF #2 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	4,365.76	776.81
26 05 19 16-0287 MLF #1 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	5,182.63	876.65
26 05 19 16-0288 MLF 1/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	6,027.75	959.95
26 05 19 16-0289 MLF 2/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	6,827.43	1,060.86
26 05 19 16-0290 MLF 3/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	8,065.21	1,122.09
26 05 19 16-0291 MLF 4/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	9,582.16	1,262.41
26 05 19 16-0292 MLF 250 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	11,219.79	1,343.01
26 05 19 16-0293 MLF 300 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	12,924.26	1,520.99
26 05 19 16-0294 MLF 350 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	14,753.19	1,683.26
26 05 19 16-0295 MLF 400 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	16,519.34	1,729.32
26 05 19 16-0296 MLF 500 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	19,548.85	1,829.55
26 05 19 16-0297 MLF 600 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	24,150.60	2,153.01
26 05 19 16-0298 MLF 750 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	36,716.70	2,550.29



MINOR	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0299	MLF	1,000 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	43,951.20	3,079.09
26 05 19 16-0300	MLF	#16 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	2,926.00	650.71
26 05 19 16-0301	MLF	#14 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,274.74	758.26
26 05 19 16-0302	MLF	#12 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	3,787.01	867.57
26 05 19 16-0303	MLF	#10 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	4,825.66	974.84
26 05 19 16-0304	MLF	#8 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	5,454.71	1,083.62
26 05 19 16-0305	MLF	#6 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit	6,836.54	1,190.89
26 05 19 16-0306 600 Volt, Feeder Wire, Single Stranded Aluminum (26 05 19 16-0012)				
26 05 19 16-0307	MLF	#6 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,409.60	388.70
26 05 19 16-0308	MLF	#4 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,669.64	451.98
26 05 19 16-0309	MLF	#2 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,182.98	580.19
26 05 19 16-0310	MLF	#1 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,692.49	647.88
26 05 19 16-0311	MLF	1/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,112.36	729.92
26 05 19 16-0312	MLF	2/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,535.56	805.64
26 05 19 16-0313	MLF	3/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,163.14	909.21
26 05 19 16-0314	MLF	4/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,608.02	1,003.10
26 05 19 16-0315	MLF	250 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	5,320.85	1,102.72
26 05 19 16-0316	MLF	300 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	6,539.59	1,199.20
26 05 19 16-0317	MLF	350 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	6,839.33	1,295.64
26 05 19 16-0318	MLF	400 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	7,811.92	1,441.10
26 05 19 16-0319	MLF	500 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	8,609.03	1,586.52
26 05 19 16-0320	MLF	600 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	10,502.64	1,848.12
26 05 19 16-0321	MLF	700 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	11,855.85	2,026.05
26 05 19 16-0322	MLF	750 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	12,112.72	2,101.16
26 05 19 16-0323	MLF	1,000 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	16,585.20	2,548.83
26 05 19 16-0324	MLF	#8 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,706.59	480.99
26 05 19 16-0325	MLF	#6 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,919.37	541.80
26 05 19 16-0326	MLF	#4 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,362.58	666.56
26 05 19 16-0327	MLF	#2 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,987.84	817.05
26 05 19 16-0328	MLF	#1 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,788.70	961.85
26 05 19 16-0329	MLF	1/0 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,371.15	1,084.02
26 05 19 16-0330	MLF	2/0 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,972.98	1,204.03
26 05 19 16-0331	MLF	3/0 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	5,722.41	1,313.62
26 05 19 16-0332	MLF	4/0 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	6,204.57	1,398.00
26 05 19 16-0333	MLF	250 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	7,047.28	1,495.80
26 05 19 16-0334	MLF	300 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	8,576.65	1,603.08
26 05 19 16-0335	MLF	350 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	8,973.75	1,731.76
26 05 19 16-0336	MLF	400 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	10,151.28	1,888.47
26 05 19 16-0337	MLF	500 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	11,407.55	2,167.23
26 05 19 16-0338	MLF	600 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	13,290.83	2,280.75
26 05 19 16-0339	MLF	700 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	14,771.98	2,404.54
26 05 19 16-0340	MLF	750 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	15,238.70	2,555.44
26 05 19 16-0341	MLF	1,000 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	22,128.98	3,581.36
26 05 19 16-0342	MLF	#6 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	1,970.62	541.80
26 05 19 16-0343	MLF	#4 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	2,458.02	666.42
26 05 19 16-0344	MLF	#2 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,066.35	818.13
26 05 19 16-0345	MLF	#1 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	3,851.96	956.43
26 05 19 16-0346	MLF	1/0 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,352.12	1,079.01
26 05 19 16-0347	MLF	2/0 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	4,927.81	1,196.58
26 05 19 16-0348	MLF	3/0 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	5,713.30	1,313.62
26 05 19 16-0349	MLF	4/0 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	6,241.09	1,398.00
26 05 19 16-0350	MLF	250 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	7,081.69	1,494.85
26 05 19 16-0351	MLF	300 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	8,589.48	1,605.10
26 05 19 16-0352	MLF	350 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	9,087.96	1,734.06
26 05 19 16-0353	MLF	400 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	10,061.75	1,884.14
26 05 19 16-0354	MLF	500 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	11,579.05	2,167.23
26 05 19 16-0355	MLF	600 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	13,255.75	2,274.64
26 05 19 16-0356	MLF	700 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	14,707.26	2,404.54
26 05 19 16-0357	MLF	750 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit	15,276.40	2,547.72
26 05 19 16-0358 Non-Metallic Sheathed Cable (26 05 19 16-0012)				
26 05 19 16-0359 Indoor Installation (26 05 19 16-0358)				
Note: For NM, NM-B, NMC-B and NMS-B.				
26 05 19 16-0360	MLF	#14 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	2,998.38	1,029.30
		For Installation In Wood Stud Wall (Includes Drilling), Add	385.98	
26 05 19 16-0361	MLF	#14 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	3,698.44	1,246.16
		For Installation In Wood Stud Wall (Includes Drilling), Add	467.33	
26 05 19 16-0362	MLF	#14 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	4,806.72	1,378.90
		For Installation In Wood Stud Wall (Includes Drilling), Add	517.09	
26 05 19 16-0363	MLF	#12 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	3,510.70	1,170.31
		For Installation In Wood Stud Wall (Includes Drilling), Add	416.52	
26 05 19 16-0364	MLF	#12 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	4,637.25	1,300.07
		For Installation In Wood Stud Wall (Includes Drilling), Add	487.54	
26 05 19 16-0365	MLF	#12 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	5,775.15	1,452.04
		For Installation In Wood Stud Wall (Includes Drilling), Add	544.52	
26 05 19 16-0366	MLF	#10 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable	4,264.57	1,300.75
		For Installation In Wood Stud Wall (Includes Drilling), Add	487.79	

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0367 MLF #10 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	6,002.80 569.00	1,517.33
26 05 19 16-0368 MLF #10 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	7,051.91 650.17	1,733.79
26 05 19 16-0369 MLF #8 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	6,676.86 554.68	1,557.69
26 05 19 16-0370 MLF #8 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	8,387.16 670.49	1,882.78
26 05 19 16-0371 MLF #6 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	8,391.72 629.85	1,774.42
26 05 19 16-0372 MLF #6 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	10,912.08 761.92	2,140.14
26 05 19 16-0373 MLF #4 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	21,809.58 838.11	2,356.86
26 05 19 16-0374 MLF #2 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	25,208.86 914.30	2,560.05
26 05 19 16-0375 Direct Burial Cable (26 05 19 16-0358) Note: Excludes trench and backfill. For NM, NM-B, NMC-B and NMS-B. Copper.		
26 05 19 16-0376 MLF #14 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	3,017.51	
26 05 19 16-0377 MLF #14 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	3,914.97	
26 05 19 16-0378 MLF #12 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	3,815.55	
26 05 19 16-0379 MLF #12 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	4,824.84	
26 05 19 16-0380 MLF #10 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	4,115.45	
26 05 19 16-0381 MLF #10 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench	5,810.92	
26 05 19 16-0382 MLF #8 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench.....	6,190.67	
26 05 19 16-0383 MLF #8 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench.....	7,880.53	
26 05 19 16-0384 MLF #6 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench.....	7,756.64	
26 05 19 16-0385 MLF #6 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench.....	10,117.12	
26 05 19 16-0386 SEU Cable Copper, 3 Conductor (26 05 19 16-0358)		
26 05 19 16-0387 MLF 12-12-12 Cable SEU Copper	4,007.90	1,304.99
26 05 19 16-0388 MLF 10-10-10 Cable SEU Copper	5,038.77	1,482.44
26 05 19 16-0389 MLF 8-8-8 Cable SEU Copper	6,280.31	1,660.03
26 05 19 16-0390 MLF 6-6-8 Cable SEU Copper	7,597.89	1,779.67
26 05 19 16-0391 MLF 6-6-6 Cable SEU Copper	8,177.76	1,839.25
26 05 19 16-0392 MLF 4-4-6 Cable SEU Copper	9,982.83	2,016.86
26 05 19 16-0393 MLF 4-4-4 Cable SEU Copper	10,762.74	2,076.30
26 05 19 16-0394 MLF 3-3-5 Cable SEU Copper	12,542.06	2,253.00
26 05 19 16-0395 MLF 3-3-3 Cable SEU Copper	13,323.21	2,371.90
26 05 19 16-0396 MLF 2-2-4 Cable SEU Copper	14,235.62	2,491.53
26 05 19 16-0397 MLF 2-2-2 Cable SEU Copper	15,223.51	2,609.98
26 05 19 16-0398 MLF 1-1-1 Cable SEU Copper	18,650.27	2,964.87
26 05 19 16-0399 MLF 1/0-1/0-1/0 Cable SEU Copper	22,209.68	3,323.92
26 05 19 16-0400 MLF 2/0-2/0-2/0 Cable SEU Copper	26,763.26	3,743.60
26 05 19 16-0401 MLF 3/0-3/0-3/0 Cable SEU Copper	32,223.90	4,164.16
26 05 19 16-0402 MLF 4/0-4/0-4/0 Cable SEU Copper	36,012.44	4,647.14
26 05 19 16-0403 SEU Cable Aluminum, 3 Conductor (26 05 19 16-0358)		
26 05 19 16-0404 MLF 8-8-8 Cable SEU Aluminum	5,251.24	1,665.66
26 05 19 16-0405 MLF 6-6-6 Cable SEU Aluminum	5,973.08	1,830.22
26 05 19 16-0406 MLF 4-4-6 Cable SEU Aluminum	6,698.09	2,003.36
26 05 19 16-0407 MLF 4-4-4 Cable SEU Aluminum	7,011.80	2,088.01
26 05 19 16-0408 MLF 2-2-4 Cable SEU Aluminum	8,384.18	2,470.78
26 05 19 16-0409 MLF 2-2-2 Cable SEU Aluminum	8,895.88	2,600.78
26 05 19 16-0410 MLF 1-1-1 Cable SEU Aluminum	10,656.36	2,964.87
26 05 19 16-0411 MLF 1/0-1/0-2 Cable SEU Aluminum	11,277.07	3,120.97
26 05 19 16-0412 MLF 1/0-1/0-1/0 Cable SEU Aluminum	13,614.73	3,294.26
26 05 19 16-0413 MLF 2/0-2/0-1 Cable SEU Aluminum	12,733.58	3,529.68
26 05 19 16-0414 MLF 2/0-2/0-2/0 Cable SEU Aluminum	13,447.61	3,706.09
26 05 19 16-0415 MLF 3/0-3/0-1/0 Cable SEU Aluminum	14,620.53	3,880.72
26 05 19 16-0416 MLF 3/0-3/0-3/0 Cable SEU Aluminum	15,635.34	4,117.91
26 05 19 16-0417 MLF 4/0-4/0-2/0 Cable SEU Aluminum	16,526.38	4,451.76
26 05 19 16-0418 MLF 4/0-4/0-4/0 Cable SEU Aluminum	17,441.46	4,632.61
26 05 19 16-0419 SER Cable Copper, 4 Conductor (26 05 19 16-0358)		
26 05 19 16-0420 MLF 6-6-6-6 Cable SER Copper	11,643.68	2,136.04
26 05 19 16-0421 MLF 4-4-4-6 Cable SER Copper	12,758.33	2,312.75
26 05 19 16-0422 MLF 3-3-3-5 Cable SER Copper	15,727.21	2,609.98
26 05 19 16-0423 MLF 2-2-2-4 Cable SER Copper	17,958.44	2,845.38
26 05 19 16-0424 MLF 1-1-1-3 Cable SER Copper	20,912.23	3,258.10
26 05 19 16-0425 MLF 1/0-1/0-1/0-2 Cable SER Copper	25,393.87	3,734.11



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0426	MLF	2/0-2/0-2/0-1 Cable SER Copper.....	31,604.43	4,028.37
26 05 19 16-0427	MLF	3/0-3/0-3/0-1/0 Cable SER Copper.....	36,456.86	4,505.86
26 05 19 16-0428 SER Cable Aluminum, 4 Conductor (26 05 19 16-0358)				
26 05 19 16-0429	MLF	8-8-8-8 Cable SER Aluminum.....	7,418.34	1,993.72
26 05 19 16-0430	MLF	6-6-6-6 Cable SER Aluminum.....	8,129.52	2,136.04
26 05 19 16-0431	MLF	4-4-4-6 Cable SER Aluminum.....	9,187.57	2,312.75
26 05 19 16-0432	MLF	2-2-2-4 Cable SER Aluminum.....	11,649.34	2,845.38
26 05 19 16-0433	MLF	1-1-1-3 Cable SER Aluminum.....	14,212.26	3,258.10
26 05 19 16-0434	MLF	1/0-1/0-1/0-2 Cable SER Aluminum.....	15,996.30	3,734.11
26 05 19 16-0435	MLF	2/0-2/0-2/0-1 Cable SER Aluminum.....	18,065.19	4,028.37
26 05 19 16-0436	MLF	3/0-3/0-3/0-1/0 Cable SER Aluminum.....	20,656.75	4,505.86
26 05 19 16-0437	MLF	4/0-4/0-4/0-2/0 Cable SER Aluminum.....	23,565.02	5,020.86
26 05 19 16-0438 Control Tray Cable, Low Voltage (26 05 19 16-0011)				
Note: Type "TC" multi-conductor (individually numbered conductors) control cables installed in conduit.				
26 05 19 16-0439	MLF	2 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,293.84	657.07
		For Work In Restricted Working Space, Add	328.54	
26 05 19 16-0440	MLF	3 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,480.50	735.02
		For Work In Restricted Working Space, Add	367.51	
26 05 19 16-0441	MLF	4 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,532.55	734.97
		For Work In Restricted Working Space, Add	367.51	
26 05 19 16-0442	MLF	5 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,919.66	921.86
		For Work In Restricted Working Space, Add	460.93	
26 05 19 16-0443	MLF	7 Conductor #18 AWG, Stranded, Type TC Control Cable.....	2,397.45	1,123.37
		For Work In Restricted Working Space, Add	561.69	
26 05 19 16-0444	MLF	9 Conductor #18 AWG, Stranded, Type TC Control Cable.....	2,711.78	1,235.32
		For Work In Restricted Working Space, Add	617.66	
26 05 19 16-0445	MLF	12 Conductor #18 AWG, Stranded, Type TC Control Cable.....	3,191.02	1,403.63
		For Work In Restricted Working Space, Add	701.82	
26 05 19 16-0446	MLF	15 Conductor #18 AWG, Stranded, Type TC Control Cable.....	4,004.35	1,715.63
		For Work In Restricted Working Space, Add	857.82	
26 05 19 16-0447	MLF	19 Conductor #18 AWG, Stranded, Type TC Control Cable.....	4,529.36	1,871.68
		For Work In Restricted Working Space, Add	935.84	
26 05 19 16-0448	MLF	25 Conductor #18 AWG, Stranded, Type TC Control Cable.....	5,213.56	1,930.19
		For Work In Restricted Working Space, Add	965.10	
26 05 19 16-0449	MLF	30 Conductor #18 AWG, Stranded, Type TC Control Cable.....	6,417.58	2,411.32
		For Work In Restricted Working Space, Add	1,205.66	
26 05 19 16-0450	MLF	37 Conductor #18 AWG, Stranded, Type TC Control Cable.....	7,658.53	2,818.08
		For Work In Restricted Working Space, Add	1,409.04	
26 05 19 16-0451	MLF	2 Conductor #16 AWG, Stranded, Type TC Control Cable.....	1,401.08	692.16
		For Work In Restricted Working Space, Add	345.81	
26 05 19 16-0452	MLF	3 Conductor #16 AWG, Stranded, Type TC Control Cable.....	1,608.87	773.71
		For Work In Restricted Working Space, Add	386.85	
26 05 19 16-0453	MLF	4 Conductor #16 AWG, Stranded, Type TC Control Cable.....	1,868.96	890.73
		For Work In Restricted Working Space, Add	445.37	
26 05 19 16-0454	MLF	5 Conductor #16 AWG, Stranded, Type TC Control Cable.....	2,096.33	970.37
		For Work In Restricted Working Space, Add	485.19	
26 05 19 16-0455	MLF	7 Conductor #16 AWG, Stranded, Type TC Control Cable.....	2,627.28	1,182.50
		For Work In Restricted Working Space, Add	591.25	
26 05 19 16-0456	MLF	9 Conductor #16 AWG, Stranded, Type TC Control Cable.....	2,983.36	1,300.34
		For Work In Restricted Working Space, Add	650.17	
26 05 19 16-0457	MLF	12 Conductor #16 AWG, Stranded, Type TC Control Cable.....	3,527.04	1,477.51
		For Work In Restricted Working Space, Add	738.76	
26 05 19 16-0458	MLF	15 Conductor #16 AWG, Stranded, Type TC Control Cable.....	4,440.94	1,805.85
		For Work In Restricted Working Space, Add	902.93	
26 05 19 16-0459	MLF	19 Conductor #16 AWG, Stranded, Type TC Control Cable.....	5,045.73	1,970.01
		For Work In Restricted Working Space, Add	985.01	
26 05 19 16-0460	MLF	25 Conductor #16 AWG, Stranded, Type TC Control Cable.....	5,882.01	2,031.78
		For Work In Restricted Working Space, Add	1,015.89	
26 05 19 16-0461	MLF	30 Conductor #16 AWG, Stranded, Type TC Control Cable.....	7,228.57	2,538.10
		For Work In Restricted Working Space, Add	1,269.05	
26 05 19 16-0462	MLF	37 Conductor #16 AWG, Stranded, Type TC Control Cable.....	8,646.16	2,966.40
		For Work In Restricted Working Space, Add	1,483.20	
26 05 19 16-0463	MLF	2 Conductor #14 AWG, Stranded, Type TC Control Cable.....	1,505.78	722.50
		For Work In Restricted Working Space, Add	361.25	
26 05 19 16-0464	MLF	3 Conductor #14 AWG, Stranded, Type TC Control Cable.....	1,774.41	812.71
		For Work In Restricted Working Space, Add	406.36	
26 05 19 16-0465	MLF	4 Conductor #14 AWG, Stranded, Type TC Control Cable.....	2,068.64	928.93
		For Work In Restricted Working Space, Add	464.46	
26 05 19 16-0466	MLF	5 Conductor #14 AWG, Stranded, Type TC Control Cable.....	2,306.12	1,000.45
		For Work In Restricted Working Space, Add	500.22	
26 05 19 16-0467	MLF	7 Conductor #14 AWG, Stranded, Type TC Control Cable.....	3,019.78	1,226.39
		For Work In Restricted Working Space, Add	613.19	
26 05 19 16-0468	MLF	9 Conductor #14 AWG, Stranded, Type TC Control Cable.....	3,452.62	1,354.52
		For Work In Restricted Working Space, Add	677.40	
26 05 19 16-0469	MLF	12 Conductor #14 AWG, Stranded, Type TC Control Cable.....	4,163.50	1,511.65
		For Work In Restricted Working Space, Add	755.82	
26 05 19 16-0470	MLF	15 Conductor #14 AWG, Stranded, Type TC Control Cable.....	4,973.20	1,805.58
		For Work In Restricted Working Space, Add	902.93	
26 05 19 16-0471	MLF	19 Conductor #14 AWG, Stranded, Type TC Control Cable.....	7,943.35	2,098.16
		For Work In Restricted Working Space, Add	1,048.81	

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0472 MLF 25 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	7,330.17 1,226.79	2,453.03
26 05 19 16-0473 MLF 30 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	8,466.72 1,370.64	2,741.28
26 05 19 16-0474 MLF 37 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	10,152.33 1,601.86	3,203.71
26 05 19 16-0475 MLF 2 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,721.23 386.85	773.71
26 05 19 16-0476 MLF 3 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,023.62 427.89	856.06
26 05 19 16-0477 MLF 4 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,434.16 492.50	985.01
26 05 19 16-0478 MLF 5 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,723.14 524.20	1,048.40
26 05 19 16-0479 MLF 7 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,526.28 624.98	1,249.96
26 05 19 16-0480 MLF 9 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,319.52 738.76	1,477.51
26 05 19 16-0481 MLF 12 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	5,191.03 833.44	1,666.87
26 05 19 16-0482 MLF 15 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	6,144.19 956.16	1,912.31
26 05 19 16-0483 MLF 19 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	7,220.05 1,083.75	2,167.50
26 05 19 16-0484 MLF 25 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	9,130.67 1,266.62	2,533.22
26 05 19 16-0485 MLF 30 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	10,586.49 1,480.35	2,960.71
26 05 19 16-0486 MLF 37 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	12,746.12 1,730.26	3,460.52
26 05 19 16-0487 MLF 2 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,999.15 406.36	812.71
26 05 19 16-0488 MLF 3 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,436.70 445.37	891.27
26 05 19 16-0489 MLF 4 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,935.10 507.95	1,015.89
26 05 19 16-0490 MLF 5 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,374.37 551.02	1,102.04
26 05 19 16-0491 MLF 7 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,517.24 691.62	1,383.23
26 05 19 16-0492 MLF 9 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	5,312.63 774.11	1,548.21
26 05 19 16-0493 MLF 12 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	6,191.48 902.93	1,805.85
26 05 19 16-0494 MLF 15 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	7,285.94 1,032.55	2,065.10
26 05 19 16-0495 MLF 19 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	8,590.82 1,170.31	2,340.61
26 05 19 16-0496 MLF 25 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	10,940.53 1,367.80	2,735.59
26 05 19 16-0497 MLF 30 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	12,676.25 1,598.60	3,197.21
26 05 19 16-0498 MLF 37 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	15,301.59 1,868.83	3,737.66
26 05 19 16-0499 ACSR (Aluminum Conductor Steel Reinforced) (26 05 19 16-0011) Note: Concentric lay stranded Class A galvanizing installed on poles, aerially.		
26 05 19 16-0500 ACSR Cable (26 05 19 16-0499)		
26 05 19 16-0501 MLF #4 AWG, ACSR Cable Swan 6/1, Aluminum Cable, Installed On Poles (Aerial).....	2,042.67	660.03
26 05 19 16-0502 MLF #4 AWG, ACSR Cable Swanate 7/1, Aluminum Cable, Installed On Poles (Aerial).....	2,173.61	685.35
26 05 19 16-0503 MLF #2 AWG, ACSR Cable Sparrow 6/1, Aluminum Cable, Installed On Poles (Aerial).....	2,354.35	711.73
26 05 19 16-0504 MLF #2 AWG, ACSR Cable Sparate 7/1, Aluminum Cable, Installed On Poles (Aerial).....	2,485.83	737.51
26 05 19 16-0505 MLF 1/0 AWG, ACSR Cable Raven 6/1, Aluminum Cable, Installed On Poles (Aerial).....	2,781.87	762.52
26 05 19 16-0506 MLF 2/0 AWG, ACSR Cable Quail 6/1, Aluminum Cable, Installed On Poles (Aerial).....	3,246.47	864.39
26 05 19 16-0507 MLF 3/0 AWG, ACSR Cable Pigeon 6/1, Aluminum Cable, Installed On Poles (Aerial).....	3,762.59	963.97
26 05 19 16-0508 MLF 4/0 AWG, ACSR Cable Penguin 6/1, Aluminum Cable, Installed On Poles (Aerial).....	4,336.95	1,064.93
26 05 19 16-0509 MLF 336 AWG ACSR Cable Merlin 18/1, Aluminum Cable, Installed On Poles (Aerial).....	5,054.26	1,368.56
26 05 19 16-0510 MLF 477 AWG, ACSR Cable Hawk 26/1, Aluminum Cable, Installed On Poles (Aerial).....	5,746.25	1,569.87
26 05 19 16-0511 All Aluminum Conductors (26 05 19 16-0499)		
26 05 19 16-0512 MLF 795.0 ACSR Conductor Aluminum	40,000.38	12,824.20
26 05 19 16-0513 Single Conductor Installed On Poles (26 05 19 16-0011)		
26 05 19 16-0514 Bare Stranded Conductor (26 05 19 16-0513)		
26 05 19 16-0515 MLF #12 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	1,621.48	559.23
26 05 19 16-0516 MLF #10 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	1,877.10	609.55
26 05 19 16-0517 MLF #8 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	2,134.34	660.49
26 05 19 16-0518 MLF #6 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	2,566.36	711.73



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0519 MLF #4 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	3,069.70	763.13
26 05 19 16-0520 MLF #2 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	4,308.18	915.32
26 05 19 16-0521 MLF #1 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	4,933.29	1,016.73
26 05 19 16-0522 MLF 1/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	5,607.92	1,116.33
26 05 19 16-0523 MLF 2/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	7,434.86	1,324.04
26 05 19 16-0524 MLF 3/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	8,980.20	1,522.29
26 05 19 16-0525 MLF 4/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	9,684.07	1,725.27
26 05 19 16-0526 MLF 250 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	12,183.38	2,033.32
26 05 19 16-0527 MLF 300 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	12,492.78	2,140.38
26 05 19 16-0528 MLF 350 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	15,383.33	2,241.49
26 05 19 16-0529 MLF 400 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	16,928.66	2,333.45
26 05 19 16-0530 MLF 500 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles.....	19,592.79	2,433.03
26 05 19 16-0531 Insulated Stranded Conductor (26 05 19 16-0513)		
26 05 19 16-0532 MLF #12 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	1,730.56	559.23
26 05 19 16-0533 MLF #10 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	2,017.84	609.55
26 05 19 16-0534 MLF #8 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	2,412.19	660.49
26 05 19 16-0535 MLF #6 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	2,618.95	711.73
26 05 19 16-0536 MLF #4 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	3,149.94	763.13
26 05 19 16-0537 MLF #2 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	4,192.30	915.32
26 05 19 16-0538 MLF #1 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	4,921.73	1,016.73
26 05 19 16-0539 MLF 1/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	5,769.26	1,116.33
26 05 19 16-0540 MLF 2/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	6,939.38	1,324.04
26 05 19 16-0541 MLF 3/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	8,289.55	1,522.29
26 05 19 16-0542 MLF 4/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	9,737.95	1,725.27
26 05 19 16-0543 MLF 250 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	11,853.72	2,033.32
26 05 19 16-0544 MLF 300 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	13,365.37	2,140.38
26 05 19 16-0545 MLF 350 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	14,604.94	2,241.49
26 05 19 16-0546 MLF 400 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	16,283.27	2,333.45
26 05 19 16-0547 MLF 500 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles.....	18,220.07	2,433.03
26 05 19 16-0548 Bare Solid Conductor (26 05 19 16-0513)		
26 05 19 16-0549 MLF #12 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....	1,621.48	559.23
26 05 19 16-0550 MLF #8 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....	2,134.34	660.49
26 05 19 16-0551 MLF #6 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....	2,566.36	711.73
26 05 19 16-0552 MLF #4 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles.....	3,036.54	763.13
26 05 19 16-0553 Multi-Conductor Cords, Cables And Associated Equipment (26 05 19 16-0011)		
26 05 19 16-0554 Multi-Conductor Cords (26 05 19 16-0553)		
Note: Includes installation in cable tray, surface mounting or installation between junction boxes. Excludes strain relief devices, plugs and connector bodies.		
26 05 19 16-0555 Multi-Conductor Type SOOW And SJOOW Cord (26 05 19 16-0554)		
Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.		
26 05 19 16-0556 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0555)		
26 05 19 16-0557 #18, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0556)		
26 05 19 16-0558 LF 2 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.43	0.59
26 05 19 16-0559 LF 3 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.48	0.59
26 05 19 16-0560 LF 4 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.64	0.59
26 05 19 16-0561 #16, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0556)		
26 05 19 16-0562 LF 2 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.65	0.59
26 05 19 16-0563 LF 3 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.75	0.59
26 05 19 16-0564 LF 4 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.89	0.59
26 05 19 16-0565 #14, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0556)		
26 05 19 16-0566 LF 2 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.84	0.59
26 05 19 16-0567 LF 3 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.99	0.59
26 05 19 16-0568 LF 4 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.29	0.59
26 05 19 16-0569 #12, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0556)		
26 05 19 16-0570 LF 2 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.09	0.59
26 05 19 16-0571 LF 3 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.28	0.59
26 05 19 16-0572 LF 4 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.54	0.59
26 05 19 16-0573 #10, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0556)		
26 05 19 16-0574 LF 2 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.69	0.74
26 05 19 16-0575 LF 3 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.82	0.74
26 05 19 16-0576 LF 4 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	3.01	0.74

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0577	600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0555)		
26 05 19 16-0578	#18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0577)		
26 05 19 16-0579	LF 2 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.48	0.59
26 05 19 16-0580	LF 3 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.59	0.59
26 05 19 16-0581	LF 4 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.74	0.59
26 05 19 16-0582	LF 5 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.94	0.80
26 05 19 16-0583	LF 6 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.20	0.82
26 05 19 16-0584	LF 7 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.40	0.84
26 05 19 16-0585	LF 8 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.71	0.87
26 05 19 16-0586	LF 10 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.25	0.91
26 05 19 16-0587	LF 12 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.82	0.93
26 05 19 16-0588	LF 14 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.30	0.95
26 05 19 16-0589	LF 16 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.42	0.98
26 05 19 16-0590	LF 18 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.58	1.00
26 05 19 16-0591	LF 20 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.31	1.02
26 05 19 16-0592	LF 24 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.16	1.04
26 05 19 16-0593	LF 30 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.56	1.11
26 05 19 16-0594	#16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0577)		
26 05 19 16-0595	LF 2 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.75	0.59
26 05 19 16-0596	LF 3 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.84	0.59
26 05 19 16-0597	LF 4 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.04	0.59
26 05 19 16-0598	LF 5 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.07	0.80
26 05 19 16-0599	LF 6 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.37	0.82
26 05 19 16-0600	LF 7 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.67	0.84
26 05 19 16-0601	LF 8 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.04	0.87
26 05 19 16-0602	LF 9 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.21	0.89
26 05 19 16-0603	LF 10 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.66	0.91
26 05 19 16-0604	LF 12 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.40	0.93
26 05 19 16-0605	LF 14 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.79	0.95
26 05 19 16-0606	LF 16 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.52	0.98
26 05 19 16-0607	LF 18 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.49	1.00
26 05 19 16-0608	LF 20 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.39	1.02
26 05 19 16-0609	LF 24 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	10.10	1.04
26 05 19 16-0610	LF 26 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	11.08	1.07
26 05 19 16-0611	LF 30 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	12.87	1.11
26 05 19 16-0612	#14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0577)		
26 05 19 16-0613	LF 2 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.02	0.59
26 05 19 16-0614	LF 3 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.13	0.59
26 05 19 16-0615	LF 4 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.40	0.59
26 05 19 16-0616	LF 5 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.92	0.80
26 05 19 16-0617	LF 6 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.68	0.82
26 05 19 16-0618	LF 7 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.93	0.84
26 05 19 16-0619	LF 8 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.53	0.87
26 05 19 16-0620	LF 9 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.94	0.89
26 05 19 16-0621	LF 10 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.62	0.91
26 05 19 16-0622	LF 12 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.25	0.93
26 05 19 16-0623	LF 14 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.99	0.95
26 05 19 16-0624	LF 16 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.58	0.98
26 05 19 16-0625	LF 20 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	10.73	1.02
26 05 19 16-0626	LF 24 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	12.61	1.04



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0627	LF	30 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	14.89	1.11
26 05 19 16-0628		#12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0577)		
26 05 19 16-0629	LF	2 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.29	0.59
26 05 19 16-0630	LF	3 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.50	0.59
26 05 19 16-0631	LF	4 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.71	0.59
26 05 19 16-0632	LF	5 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.47	0.80
26 05 19 16-0633	LF	6 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.16	0.82
26 05 19 16-0634	LF	7 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.87	0.84
26 05 19 16-0635	LF	8 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.63	0.87
26 05 19 16-0636	LF	9 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.17	0.89
26 05 19 16-0637	LF	10 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.10	0.91
26 05 19 16-0638	LF	12 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.20	0.93
26 05 19 16-0639	LF	14 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	10.22	0.95
26 05 19 16-0640	LF	16 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	11.24	0.98
26 05 19 16-0641	LF	18 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	11.73	1.00
26 05 19 16-0642	LF	20 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	13.49	1.02
26 05 19 16-0643	LF	24 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	15.31	1.04
26 05 19 16-0644	LF	26 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	17.12	1.07
26 05 19 16-0645	LF	28 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	17.70	1.09
26 05 19 16-0646	LF	30 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	18.35	1.11
26 05 19 16-0647		#10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0577)		
26 05 19 16-0648	LF	2 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.64	0.74
26 05 19 16-0649	LF	3 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.81	0.74
26 05 19 16-0650	LF	4 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	3.00	0.74
26 05 19 16-0651	LF	5 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.89	0.80
26 05 19 16-0652	LF	6 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.27	0.82
26 05 19 16-0653	LF	7 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.35	0.84
26 05 19 16-0654	LF	10 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.42	0.91
26 05 19 16-0655	LF	12 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	10.77	0.93
26 05 19 16-0656	LF	16 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	13.69	0.98
26 05 19 16-0657	LF	20 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	19.83	1.02
26 05 19 16-0658		#8, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0577)		
26 05 19 16-0659	LF	3 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	5.16	0.89
26 05 19 16-0660	LF	4 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	5.60	1.04
26 05 19 16-0661	LF	5 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	7.55	1.04
26 05 19 16-0662		#6, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0577)		
26 05 19 16-0663	LF	3 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	7.31	1.04
26 05 19 16-0664	LF	4 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	8.82	1.18
26 05 19 16-0665	LF	5 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	10.59	1.48
26 05 19 16-0666		#4, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0577)		
26 05 19 16-0667	LF	3 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	11.62	1.48
26 05 19 16-0668	LF	4 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	12.74	1.63
26 05 19 16-0669	LF	5 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	15.32	1.78
26 05 19 16-0670		#2, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0577)		
26 05 19 16-0671	LF	3 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	17.66	2.97
26 05 19 16-0672	LF	4 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	22.46	3.71
26 05 19 16-0673	LF	5 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	27.32	4.89
26 05 19 16-0674		300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0555)		

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0675 #18, 300 Volt, Multi-Conductor Type SJOOW Cord (26 05 19 16-0674)		
26 05 19 16-0676 LF 2 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	1.89	0.59
26 05 19 16-0677 LF 3 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	2.07	0.59
26 05 19 16-0678 LF 4 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	2.41	0.59
26 05 19 16-0679 #16, 300 Volt, Multi-Conductor Type SJOOW Cord (26 05 19 16-0674)		
26 05 19 16-0680 LF 2 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	2.00	0.59
26 05 19 16-0681 LF 3 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	2.28	0.59
26 05 19 16-0682 LF 4 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	2.40	0.59
26 05 19 16-0683 #14, 300 Volt, Multi-Conductor Type SJOOW Cord (26 05 19 16-0674)		
26 05 19 16-0684 LF 2 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	2.69	0.59
26 05 19 16-0685 LF 3 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	3.81	0.59
26 05 19 16-0686 LF 4 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III)	4.85	0.74
26 05 19 16-0687 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0555)		
26 05 19 16-0688 #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0687)		
26 05 19 16-0689 LF 2 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	2.60	0.59
26 05 19 16-0690 LF 3 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	3.07	0.59
26 05 19 16-0691 LF 4 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	3.57	0.59
26 05 19 16-0692 #16 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0687)		
26 05 19 16-0693 LF 2/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	2.77	0.59
26 05 19 16-0694 LF 3/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	3.25	0.59
26 05 19 16-0695 LF 4/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	4.01	0.59
26 05 19 16-0696 LF 5/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	4.35	0.74
26 05 19 16-0697 #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0687)		
26 05 19 16-0698 LF 3 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	3.36	0.59
26 05 19 16-0699 LF 4 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	3.98	0.59
26 05 19 16-0700 LF 5 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	4.46	0.74
26 05 19 16-0701 #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0687)		
26 05 19 16-0702 LF 3 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	3.95	0.59
26 05 19 16-0703 LF 4 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	4.50	0.59
26 05 19 16-0704 LF 5 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	5.02	0.74
26 05 19 16-0705 #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0687)		
26 05 19 16-0706 LF 3/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	4.52	0.74
26 05 19 16-0707 LF 4/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	5.01	0.74
26 05 19 16-0708 LF 5/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III)	5.51	0.74
26 05 19 16-0709 Multi-Conductor Type SEOW Cord (26 05 19 16-0554)		
Note: Includes thermoplastic elastomeric (TPE) insulation.		
26 05 19 16-0710 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0709)		
26 05 19 16-0711 #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0710)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0712 LF 3 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.02	0.59
26 05 19 16-0713 LF 4 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.21	0.59
26 05 19 16-0714 LF 5 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.28	0.74
26 05 19 16-0715 #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0710)		
26 05 19 16-0716 LF 3/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.59	0.59
26 05 19 16-0717 LF 4/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.95	0.59
26 05 19 16-0718 LF 5/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	4.17	0.74
26 05 19 16-0719 #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0710)		
26 05 19 16-0720 LF 3 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.18	0.59
26 05 19 16-0721 LF 4 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.64	0.59
26 05 19 16-0722 LF 5 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	4.56	0.74
26 05 19 16-0723 #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord (26 05 19 16-0710)		
26 05 19 16-0724 LF 3/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	4.00	0.74
26 05 19 16-0725 LF 4/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	4.56	0.74
26 05 19 16-0726 LF 5/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	4.88	0.74
26 05 19 16-0727 Multi-Conductor Type W Cord (26 05 19 16-0554) Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.		
26 05 19 16-0728 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (26 05 19 16-0727)		
26 05 19 16-0729 #8 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (26 05 19 16-0728)		
26 05 19 16-0730 LF 3/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	5.63	0.89
26 05 19 16-0731 LF 4/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	6.03	1.04
26 05 19 16-0732 LF 5/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	7.10	1.04
26 05 19 16-0733 #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (26 05 19 16-0728)		
26 05 19 16-0734 LF 3 Conductors, #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	6.05	1.04
26 05 19 16-0735 LF 4 Conductors, #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	7.22	1.18
26 05 19 16-0736 LF 5/c #6, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	8.96	1.48
26 05 19 16-0737 #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (26 05 19 16-0728)		
26 05 19 16-0738 LF 3 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	8.11	1.04
26 05 19 16-0739 LF 4 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	9.59	1.18
26 05 19 16-0740 LF 5 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	12.29	1.48
26 05 19 16-0741 Cord Grips, Cable Reels, Extension Cords, And Accessories (26 05 19 16-0553)		
26 05 19 16-0742 Cord Grips (26 05 19 16-0741)		
26 05 19 16-0743 EA Cord Grip With Watertight Connector For 1/2" NPT Zinc Plated Steel.....	93.37	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.95	
26 05 19 16-0744 EA Cord Grip With Watertight Connector For 3/4" NPT Zinc Plated Steel.....	93.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.95	
26 05 19 16-0745 Cable Reels (26 05 19 16-0741) Note: Includes handling, mounting, electrical connections and installing cord.		
26 05 19 16-0746 EA 30', 16-3, SJO, Extension Cord Reel (Cox Reels PC10-3016-A).....	729.76	74.12
26 05 19 16-0747 EA 50', 10-4, SEOW, Extension Cord Reel (Reelcraft L 7050 104 X 1).....	1,979.19	74.12
26 05 19 16-0748 EA 50', 16-3, SOOW, Extension Cord Reel (KH Industries RTFD3L-WW-B16K).....	1,485.30	74.12
26 05 19 16-0749 Extension Cords For Cable Reel (26 05 19 16-0741)		
26 05 19 16-0750 EA 100 LF, 120 Volt, 12 Gauge, 3 Wire, Extension Cord.....	207.32	
26 05 19 16-0751 EA 100 LF, 240 Volt, 10 Gauge, 3 Wire, Extension Cord.....	291.48	
26 05 19 16-0752 Plugs And Connector Bodies (26 05 19 16-0741) Note: Up to 277 volt		
26 05 19 16-0753 NEMA Twist-Lock Plugs (26 05 19 16-0752)		
26 05 19 16-0754 EA 15 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7545C).....	95.36	
26 05 19 16-0755 EA 15 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL4770CBK).....	97.00	
26 05 19 16-0756 EA 20 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7102C).....	90.12	
26 05 19 16-0757 EA 20 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2331).....	95.16	
26 05 19 16-0758 EA 20 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2411).....	118.78	
26 05 19 16-0759 EA 20 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2441).....	125.18	
26 05 19 16-0760 EA 20 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2511BK).....	131.45	

26 Electrical**26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0761 EA 30 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2611BK)	119.74	
26 05 19 16-0762 EA 30 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2711BK)	135.12	
26 05 19 16-0763 EA 30 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2761)	138.12	
26 05 19 16-0764 EA 30 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2811BK)	141.93	
26 05 19 16-0765 NEMA Twist-Lock Connector Bodies (26 05 19 16-0752)		
26 05 19 16-0766 EA 15 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7506C)	99.99	
26 05 19 16-0767 EA 15 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL4779C)	105.78	
26 05 19 16-0768 EA 20 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7101C)	93.59	
26 05 19 16-0769 EA 20 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2323BK)	119.74	
26 05 19 16-0770 EA 20 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2413BK)	136.62	
26 05 19 16-0771 EA 20 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2443)	144.79	
26 05 19 16-0772 EA 20 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2513BK)	172.30	
26 05 19 16-0773 EA 30 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2623BK)	165.35	
26 05 19 16-0774 EA 30 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2713BK)	199.80	
26 05 19 16-0775 EA 30 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2753)	208.93	
26 05 19 16-0776 EA 30 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2813BK)	198.99	
26 05 19 16-0777 Watertight Pin And Sleeve Plug (26 05 19 16-0752)		
26 05 19 16-0778 EA 20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P4W)	289.43	44.47
26 05 19 16-0779 EA 20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P6W)	292.33	44.47
26 05 19 16-0780 EA 20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P7W)	314.91	44.47
26 05 19 16-0781 EA 20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P12W)	317.00	48.92
26 05 19 16-0782 EA 20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P9W)	312.61	48.92
26 05 19 16-0783 EA 20 Amperes, Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P7W)	313.92	48.92
26 05 19 16-0784 EA 30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P4W)	436.76	54.70
26 05 19 16-0785 EA 30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P6W)	425.86	54.70
26 05 19 16-0786 EA 30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P7W)	472.71	54.70
26 05 19 16-0787 EA 30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P12W)	466.69	60.04
26 05 19 16-0788 EA 30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P9W)	447.75	60.04
26 05 19 16-0789 EA 30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P7W)	460.78	60.04
26 05 19 16-0790 EA 60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P4W)	592.30	71.16
26 05 19 16-0791 EA 60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P6W)	602.68	71.16
26 05 19 16-0792 EA 60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P7W)	578.06	71.16
26 05 19 16-0793 EA 60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P12W)	657.64	79.16
26 05 19 16-0794 EA 60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P9W)	641.47	79.16
26 05 19 16-0795 EA 60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P7W)	648.47	79.16
26 05 19 16-0796 EA 100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P6W)	809.69	88.95
26 05 19 16-0797 EA 100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P7W)	849.80	88.95
26 05 19 16-0798 EA 100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P12W)	832.53	97.84
26 05 19 16-0799 EA 100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P9W)	818.83	97.84
26 05 19 16-0800 EA 100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P7W)	826.23	97.84
26 05 19 16-0801 Watertight Pin And Sleeve Connector (26 05 19 16-0752)		
26 05 19 16-0802 EA 20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C4W)	306.15	44.47
26 05 19 16-0803 EA 20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C6W)	308.16	44.47
26 05 19 16-0804 EA 20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C7W)	360.15	44.47
26 05 19 16-0805 EA 20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C12W)	359.13	48.92
26 05 19 16-0806 EA 20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C9W)	353.85	48.92
26 05 19 16-0807 EA 20 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C7W)	358.62	48.92
26 05 19 16-0808 EA 30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C4W)	446.76	54.70
26 05 19 16-0809 EA 30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C6W)	446.64	54.70
26 05 19 16-0810 EA 30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C7W)	464.58	54.70
26 05 19 16-0811 EA 30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C12W)	461.83	60.04
26 05 19 16-0812 EA 30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C9W)	465.52	60.04
26 05 19 16-0813 EA 30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C7W)	461.62	60.04
26 05 19 16-0814 EA 60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C4W)	694.78	71.16
26 05 19 16-0815 EA 60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C6W)	672.82	71.16
26 05 19 16-0816 EA 60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C7W)	659.73	71.16
26 05 19 16-0817 EA 60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C12W)	718.63	79.16
26 05 19 16-0818 EA 60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C9W)	737.72	79.16
26 05 19 16-0819 EA 60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C7W)	739.12	79.16
26 05 19 16-0820 EA 100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C6W)	922.10	88.95
26 05 19 16-0821 EA 100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C7W)	947.28	88.95
26 05 19 16-0822 EA 100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C12W)	1,024.24	97.84
26 05 19 16-0823 EA 100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C9W)	989.64	97.84
26 05 19 16-0824 EA 100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C7W)	1,001.44	97.84
26 05 19 16-0825 Accessories (26 05 19 16-0741)		
26 05 19 16-0826 EA 1/2" Straight Steel Cord Connector	66.46	14.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.89	
26 05 19 16-0827 EA 1/2" Straight Nylon Cord Connector	40.65	11.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.67	
26 05 19 16-0828 EA 1/2" 90 Degree Steel Cord Connector	76.63	18.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.12	
26 05 19 16-0829 EA 1/2" 90 Degree Nylon Cord Connector	49.43	14.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.89	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0830	EA		1/2" Straight Steel Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.72 11.12	18.53
26 05 19 16-0831	EA		1/2" 90 Degree Steel Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	127.57 13.34	22.24
26 05 19 16-0832	EA		1/2" Straight Nylon Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48.73 8.90	14.83
26 05 19 16-0833	EA		1/2" 90 Degree Nylon Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	80.00 11.12	18.53
26 05 19 16-0834	EA		3/4" Straight Steel Cord Connector <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69.05 8.89	14.83
26 05 19 16-0835	EA		3/4" Straight Nylon Cord Connector..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.95 6.67	11.12
26 05 19 16-0836	EA		3/4" 90 Degree Steel Cord Connector <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.73 11.12	18.53
26 05 19 16-0837	EA		3/4" 90 Degree Nylon Cord Connector <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.48 8.90	14.83
26 05 19 16-0838	EA		3/4" Straight Steel Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	85.86 13.34	22.24
26 05 19 16-0839	EA		3/4" 90 Degree Steel Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	101.94 15.57	25.95
26 05 19 16-0840	EA		3/4" Straight Nylon Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.87 11.12	18.53
26 05 19 16-0841	EA		3/4" 90 Degree Nylon Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.05 13.34	22.24
26 05 19 16-0842	EA		1" Straight Steel Cord Connector..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	85.68 8.89	14.83
26 05 19 16-0843	EA		1" Straight Nylon Cord Connector..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.26 6.67	11.12
26 05 19 16-0844	EA		1" 90 Degree Steel Cord Connector <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	95.71 11.12	18.53
26 05 19 16-0845	EA		1" 90 Degree Nylon Cord Connector <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.98 8.90	14.83
26 05 19 16-0846	EA		1" Straight Steel Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	103.31 13.34	22.24
26 05 19 16-0847	EA		1" 90 Degree Steel Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	113.47 15.57	25.95
26 05 19 16-0848	EA		1" Straight Nylon Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.73 11.12	18.53
26 05 19 16-0849	EA		1" 90 Degree Nylon Cord Connector With Strain Relief Mesh <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.55 13.34	22.24

26 05 23 Control-Voltage Electrical Power Cables (26 05)

- 26 05 23 00-0001 Cable For HVAC System Controls (26 05 23)
26 05 23 00-0002 Low Voltage Thermostat Cable To 300 Volt (26 05 23 00-0001)
Note: For surface or conduit installation.

26 05 23 00-0003	MLF	#20/2 Conductor, Low Volt Thermostat Cable	591.13	172.70
26 05 23 00-0004	MLF	#20/3 Conductor, Low Volt Thermostat Cable	675.84	181.91
26 05 23 00-0005	MLF	#20/4 Conductor, Low Volt Thermostat Cable	732.81	192.34
26 05 23 00-0006	MLF	#20/5 Conductor, Low Volt Thermostat Cable	880.21	200.47
26 05 23 00-0007	MLF	#20/6 Conductor, Low Volt Thermostat Cable	922.95	209.95
26 05 23 00-0008	MLF	#20/7 Conductor, Low Volt Thermostat Cable	1,016.26	218.68
26 05 23 00-0009	MLF	#20/8 Conductor, Low Volt Thermostat Cable	1,097.18	227.42
26 05 23 00-0010	MLF	#20/9 Conductor, Low Volt Thermostat Cable	1,191.90	236.50
26 05 23 00-0011	MLF	#20/10 Conductor, Low Volt Thermostat Cable	1,283.01	243.60
26 05 23 00-0012	MLF	#18/2 Conductor, Low Volt Thermostat Cable	642.95	172.70
26 05 23 00-0013	MLF	#18/3 Conductor, Low Volt Thermostat Cable	768.29	181.91
26 05 23 00-0014	MLF	#18/4 Conductor, Low Volt Thermostat Cable	879.50	192.34
26 05 23 00-0015	MLF	#18/5 Conductor, Low Volt Thermostat Cable	940.76	200.47
26 05 23 00-0016	MLF	#18/6 Conductor, Low Volt Thermostat Cable	1,044.60	209.95
26 05 23 00-0017	MLF	#18/7 Conductor, Low Volt Thermostat Cable	1,072.12	218.68
26 05 23 00-0018	MLF	#18/8 Conductor, Low Volt Thermostat Cable	1,182.42	227.42
26 05 23 00-0019	MLF	#18/9 Conductor, Low Volt Thermostat Cable	1,396.41	236.50
26 05 23 00-0020	MLF	#18/10 Conductor, Low Volt Thermostat Cable	1,535.25	243.60

26 05 29 Hangers and Supports for Electrical Systems (26 05)

- 26 05 29 00-0001 Metal Framing Channel And Fittings (26 05 29)
26 05 29 00-0002 Metal Framing Channel (26 05 29 00-0001)
Note: Excludes fasteners and accessories.
26 05 29 00-0003 14 Gauge Metal Framing Channels (26 05 29 00-0002)
26 05 29 00-0004 14 Gauge, Steel Unistrut Channel (26 05 29 00-0003)
26 05 29 00-0005 EA Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel 25.90 8.13
26 05 29 00-0006 EA >1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel..... 28.77 8.13
26 05 29 00-0007 LF >2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel 13.05 3.06
26 05 29 00-0008 14 Gauge, 304 Stainless Steel Unistrut Channel (26 05 29 00-0003)

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0009	EA		Up To 1' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	47.40	8.13
26 05 29 00-0010	EA		Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	52.62	8.13
26 05 29 00-0011	EA		>1' To 2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	71.77	8.13
26 05 29 00-0012	EA		>1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	82.22	8.13
26 05 29 00-0013	LF		>2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	34.55	3.06
26 05 29 00-0014	LF		>2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	39.77	3.06
26 05 29 00-0015			14 Gauge, 316 Stainless Steel Unistrut Channel (26 05 29 00-0003)		
26 05 29 00-0016	EA		Up To 1' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel.....	69.94	8.13
26 05 29 00-0017	EA		>1' To 2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel.....	116.85	8.13
26 05 29 00-0018	LF		>2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel.....	57.09	3.06
26 05 29 00-0019			12 Gauge Metal Framing Channels (26 05 29 00-0002)		
26 05 29 00-0020			12 Gauge, Steel Unistrut Channel (26 05 29 00-0019)		
26 05 29 00-0021	EA		Up To 1' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel.....	27.59	8.13
26 05 29 00-0022	EA		Up To 1' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel.....	27.01	8.13
26 05 29 00-0023	EA		Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel.....	26.64	8.13
26 05 29 00-0024	EA		>1' To 2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel.....	32.16	8.13
26 05 29 00-0025	EA		>1' To 2' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel.....	31.01	8.13
26 05 29 00-0026	EA		>1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel.....	30.27	8.13
26 05 29 00-0027	LF		>2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel.....	14.74	3.06
26 05 29 00-0028	LF		>2' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel.....	14.16	3.06
26 05 29 00-0029	LF		>2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel.....	13.79	3.06
26 05 29 00-0030			12 Gauge, 304 Stainless Steel Unistrut Channel (26 05 29 00-0019)		
26 05 29 00-0031	EA		Up To 1' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	54.35	8.13
26 05 29 00-0032	EA		Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	63.35	8.13
26 05 29 00-0033	EA		>1' To 2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	85.67	8.13
26 05 29 00-0034	EA		>1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	103.68	8.13
26 05 29 00-0035	LF		>2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	41.50	3.06
26 05 29 00-0036	LF		>2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	50.50	3.06
26 05 29 00-0037			Metal Framing Channel Fittings (26 05 29 00-0001)		
26 05 29 00-0038			Unistrut Channel Closure Strips And Caps (26 05 29 00-0037)		
26 05 29 00-0039			Steel Unistrut Channel Closure Strips And Caps (26 05 29 00-0038)		
26 05 29 00-0040	LF		Steel Raceway Closure Strip, Unistrut Channel Fittings.....	7.26	0.74
26 05 29 00-0041	EA		Steel End Cap, Unistrut Channel Fittings.....	17.13	7.42
26 05 29 00-0042			Stainless Steel Unistrut Channel Closure Strips And Caps (26 05 29 00-0038)		
26 05 29 00-0043	EA		Stainless Steel End Cap For Unistrut Channel.....	28.33	7.42
26 05 29 00-0044			Flat Splice Plate, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0045			Steel Flat Splice Plate, Unistrut Channel Fittings (26 05 29 00-0044)		
26 05 29 00-0046	EA		2-Hole, 3-1/4" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting.....	7.38	
26 05 29 00-0047	EA		3-Hole, 5-3/8" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting.....	7.33	
26 05 29 00-0048	EA		4-Hole, 7-1/4" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting.....	8.83	
26 05 29 00-0049			Stainless Steel Flat Splice Plate, Unistrut Channel Fittings (26 05 29 00-0044)		
26 05 29 00-0050	EA		2-Hole, 3-1/2" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting.....	24.85	
26 05 29 00-0051	EA		3-Hole, 5-3/8" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting.....	37.10	
26 05 29 00-0052	EA		4-Hole, 7-1/4" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting.....	47.46	
26 05 29 00-0053			90 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0054			Steel 90 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0053)		
26 05 29 00-0055	EA		2-Hole, 1-7/8" x 2", 90 Degree Angle, Steel, Unistrut Channel Fitting.....	7.15	
26 05 29 00-0056	EA		2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, Steel, Unistrut Channel Fitting.....	6.06	
26 05 29 00-0057	EA		3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, Steel, Unistrut Channel Fitting.....	10.14	
26 05 29 00-0058	EA		3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, Steel, Unistrut Channel Fitting.....	10.01	
26 05 29 00-0059			Stainless Steel 90 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0053)		
26 05 29 00-0060	EA		2-Hole, 1-7/8" x 2", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting.....	14.12	
26 05 29 00-0061	EA		2-Hole, 1-7/8" x 2", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting.....	17.71	
26 05 29 00-0062	EA		2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting.....	14.98	
26 05 29 00-0063	EA		2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting.....	21.39	
26 05 29 00-0064	EA		3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting.....	19.53	
26 05 29 00-0065	EA		3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting.....	36.25	
26 05 29 00-0066	EA		3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting.....	20.54	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0067 EA 3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting.....	29.91	
26 05 29 00-0068 60 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0069 Steel 60 Degree Angle, Unistrut Channel Fittings (26 05 29 00-0068)		
26 05 29 00-0070 EA 2-Hole, 1-7/8" x 3-3/8", 60 Degree Angle, Steel, Unistrut Channel Fitting	14.31	
26 05 29 00-0071 U-Connector, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0072 Steel, U-Connector, Unistrut Channel Fittings (26 05 29 00-0071)		
26 05 29 00-0073 EA 3-Hole, 1-5/8" x 13/16", U-Connector, Steel, Unistrut Channel Fitting	5.35	
26 05 29 00-0074 EA 5-Hole, 1-5/8" x 1-5/8", U-Connector, Steel, Unistrut Channel Fitting.....	5.91	
26 05 29 00-0075 Stainless Steel, U-Connector, Unistrut Channel Fittings (26 05 29 00-0071)		
26 05 29 00-0076 EA 5-Hole, 1-5/8" x 1-5/8", U-Connector, 304 Stainless Steel, Unistrut Channel Fitting	29.69	
26 05 29 00-0077 Z-Bracket, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0078 Steel Z-Bracket, Unistrut Channel Fittings (26 05 29 00-0077)		
26 05 29 00-0079 EA 3-Hole, Z-Bracket, Steel, Unistrut Channel Fitting	14.68	
26 05 29 00-0080 Stainless Steel Z-Bracket, Unistrut Channel Fittings (26 05 29 00-0077)		
26 05 29 00-0081 EA 3-Hole, Z-Bracket, 304 Stainless Steel, Unistrut Channel Fitting.....	58.00	
26 05 29 00-0082 Standard Pipe And Rigid Conduit Clamps For Unistrut Channel (26 05 29 00-0037) Note: Includes hex screw and nut.		
26 05 29 00-0083 Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel (26 05 29 00-0082) Note: Includes hex screw and nut.		
26 05 29 00-0084 EA 1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	6.06	2.23
26 05 29 00-0085 EA 3/4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	6.08	2.23
26 05 29 00-0086 EA 1" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	6.21	2.23
26 05 29 00-0087 EA 1-1/4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	7.87	2.97
26 05 29 00-0088 EA 1-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	8.53	2.97
26 05 29 00-0089 EA 2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	8.59	2.97
26 05 29 00-0090 EA 2-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	10.54	3.71
26 05 29 00-0091 EA 3" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	11.12	3.71
26 05 29 00-0092 EA 3-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	11.68	3.71
26 05 29 00-0093 EA 4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	11.88	3.71
26 05 29 00-0094 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel (26 05 29 00-0082) Note: Includes hex screw and nut.		
26 05 29 00-0095 EA 1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	11.02	2.23
26 05 29 00-0096 EA 3/4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	12.39	2.23
26 05 29 00-0097 EA 1" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	13.75	2.23
26 05 29 00-0098 EA 1-1/4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	17.04	2.97
26 05 29 00-0099 EA 1-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	20.83	2.97
26 05 29 00-0100 EA 2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	21.83	2.97
26 05 29 00-0101 EA 2-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	26.16	3.71
26 05 29 00-0102 EA 3" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	29.53	3.71
26 05 29 00-0103 EA 3-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	30.98	3.71
26 05 29 00-0104 EA 4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	36.34	3.71
26 05 29 00-0105 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel (26 05 29 00-0082) Note: Includes hex screw and nut.		
26 05 29 00-0106 EA 1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	11.85	2.23
26 05 29 00-0107 EA 3/4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	13.79	2.23
26 05 29 00-0108 EA 1" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	14.33	2.23
26 05 29 00-0109 EA 1-1/4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	17.31	2.97
26 05 29 00-0110 EA 1-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	23.94	2.97
26 05 29 00-0111 EA 2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	24.28	2.97
26 05 29 00-0112 EA 2-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	28.72	3.71
26 05 29 00-0113 EA 3" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	30.43	3.71
26 05 29 00-0114 EA 3-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	42.66	3.71
26 05 29 00-0115 EA 4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	50.13	3.71
26 05 29 00-0116 Beam Clamps, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0117 Steel Beam Clamps, Unistrut Channel Fittings (26 05 29 00-0116)		

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0118	EA	Set Screw Beam Clamp, Steel Unistrut Channel Fitting	43.97	13.55
26 05 29 00-0119	EA	"C" Beam Clamp Use With 1/2" Rod, Steel Unistrut Channel Fittings	30.98	13.55
26 05 29 00-0120	EA	"U" Bolt Beam Clamp, Steel Unistrut Channel Fitting	42.65	13.55
26 05 29 00-0121		304 Stainless Steel Beam Clamps, Unistrut Channel Fittings (26 05 29 00-0116)		
26 05 29 00-0122	EA	"U" Bolt Beam Clamp, 304 Stainless Steel Unistrut Channel Fitting	67.54	13.55
26 05 29 00-0123		Square Washers For Unistrut Channel (26 05 29 00-0037)		
26 05 29 00-0124		Steel Square Washers For Unistrut Channel (26 05 29 00-0123)		
26 05 29 00-0125	EA	1/2" Bolt Size, Steel, Square Washer For Unistrut Channel	5.26	
26 05 29 00-0126		Stainless Steel Square Washers For Unistrut Channel (26 05 29 00-0123)		
26 05 29 00-0127	EA	1/2" Bolt Size, 304 Stainless Steel, Square Washer For Unistrut Channel	6.92	
26 05 29 00-0128	EA	1/2" Bolt Size, 316 Stainless Steel, Square Washer For Unistrut Channel	8.79	
26 05 29 00-0129		Strut Braces, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0130	EA	16" Diagonal Steel Bar Brace For Unistrut Channel	39.54	
26 05 29 00-0131		Trolley Hangers, Unistrut Channel Fittings (26 05 29 00-0037)		
26 05 29 00-0132	EA	Steel Trolley Track Hanger For Unistrut Channel	49.31	
26 05 29 00-0133		Lock Nuts With Spring For Unistrut Channel (26 05 29 00-0037) Note: Includes hex bolt.		
26 05 29 00-0134		Steel Lock Nuts With Spring For Unistrut Channel (26 05 29 00-0133) Note: Includes hex bolt.		
26 05 29 00-0135	EA	1/4-20, Steel Lock Nut With Spring For Unistrut Channel	9.66	
26 05 29 00-0136	EA	3/8-16, Steel Lock Nut With Spring For Unistrut Channel	10.45	
26 05 29 00-0137	EA	1/2-13, Steel Lock Nut With Spring For Unistrut Channel	11.04	
26 05 29 00-0138	EA	5/8-11, Steel Lock Nut With Spring For Unistrut Channel	14.25	
26 05 29 00-0139		Stainless Steel Lock Nuts With Spring For Unistrut Channel (26 05 29 00-0133) Note: Includes hex bolt.		
26 05 29 00-0140	EA	1/4-20, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	18.50	
26 05 29 00-0141	EA	3/8-16, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	19.77	
26 05 29 00-0142	EA	1/2-13, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	28.51	
26 05 29 00-0143	EA	5/8-11, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel	49.67	
26 05 29 00-0144		Lock Nuts Without Spring For Unistrut Channel (26 05 29 00-0037) Note: Includes hex bolt.		
26 05 29 00-0145		Steel Lock Nuts Without Spring For Unistrut Channel (26 05 29 00-0144) Note: Includes hex bolt.		
26 05 29 00-0146	EA	1/4-20, Steel Lock Nut Without Spring For Unistrut Channel	9.68	
26 05 29 00-0147	EA	3/8-16, Steel Lock Nut Without Spring For Unistrut Channel	10.56	
26 05 29 00-0148	EA	1/2-13, Steel Lock Nut Without Spring For Unistrut Channel	11.09	
26 05 29 00-0149	EA	5/8-11, Steel Lock Nut Without Spring For Unistrut Channel	15.18	
26 05 29 00-0150		Stainless Steel Lock Nuts Without Spring For Unistrut Channel (26 05 29 00-0144) Note: Includes hex bolt.		
26 05 29 00-0151	EA	1/4-20, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	12.89	
26 05 29 00-0152	EA	3/8-16, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	15.81	
26 05 29 00-0153	EA	1/2-13, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	17.34	
26 05 29 00-0154	EA	5/8-11, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel	48.35	
26 05 29 00-0155		Mounting Assemblies (26 05 29)		
26 05 29 00-0156		Galvanized Steel Mounting Assemblies (26 05 29 00-0155)		
26 05 29 00-0157		Galvanized Steel Back Plate (26 05 29 00-0156)		
26 05 29 00-0158	EA	1/4" x 4" x 4", Galvanized Steel Back Plate, Painted	569.84	88.95
26 05 29 00-0159	EA	3/8" x 14" x 16", Galvanized Steel Back Plate, Painted	142.35	29.65
26 05 29 00-0160	EA	3/16" x 30" x 48", Galvanized Steel Back Plate, Painted	360.20	74.12
26 05 29 00-0161		Aluminum Mounting Assemblies (26 05 29 00-0155)		
26 05 29 00-0162		Aluminum Back Plate (26 05 29 00-0161)		
26 05 29 00-0163	EA	3/16" x 2' x 2' Aluminum Back Plate	473.54	111.18
26 05 29 00-0164	EA	3/16" x 4' x 4' Aluminum Back Plate	1,298.86	111.18



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0165			Supports (26 05 29)		
26 05 29 00-0166			One Hole Steel Conduit Straps (26 05 29 00-0165)		
26 05 29 00-0167	EA		1/2", One Hole Steel Conduit Strap 5.27		
			For Work In Restricted Working Space, Add	1.43	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.29	
			For >50 To 100, Deduct	-0.25	
			For >100 To 250, Deduct	-0.50	
			For >250 To 500, Deduct	-0.99	
			For >500, Deduct	-1.48	
26 05 29 00-0168	EA		3/4", One Hole Steel Conduit Strap 5.32		
			For Work In Restricted Working Space, Add	1.43	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.29	
			For >50 To 100, Deduct	-0.25	
			For >100 To 250, Deduct	-0.50	
			For >250 To 500, Deduct	-0.99	
			For >500, Deduct	-1.48	
26 05 29 00-0169	EA		1", One Hole Steel Conduit Strap 5.57		
			For Work In Restricted Working Space, Add	1.43	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.29	
			For >50 To 100, Deduct	-0.26	
			For >100 To 250, Deduct	-0.52	
			For >250 To 500, Deduct	-1.01	
			For >500, Deduct	-1.51	
26 05 29 00-0170	EA		1-1/4", One Hole Steel Conduit Strap 5.76		
			For Work In Restricted Working Space, Add	1.43	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.29	
			For >50 To 100, Deduct	-0.26	
			For >100 To 250, Deduct	-0.53	
			For >250 To 500, Deduct	-1.03	
			For >500, Deduct	-1.53	
26 05 29 00-0171	EA		1-1/2", One Hole Steel Conduit Strap 5.88		
			For Work In Restricted Working Space, Add	1.43	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.29	
			For >50 To 100, Deduct	-0.27	
			For >100 To 250, Deduct	-0.53	
			For >250 To 500, Deduct	-1.03	
			For >500, Deduct	-1.54	
26 05 29 00-0172	EA		2", One Hole Steel Conduit Strap 6.64		
			For Work In Restricted Working Space, Add	1.43	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.29	
			For >50 To 100, Deduct	-0.28	
			For >100 To 250, Deduct	-0.57	
			For >250 To 500, Deduct	-1.09	
			For >500, Deduct	-1.61	
26 05 29 00-0173	EA		2-1/2", One Hole Steel Conduit Strap 7.42		
			For Work In Restricted Working Space, Add	1.43	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.29	
			For >50 To 100, Deduct	-0.30	
			For >100 To 250, Deduct	-0.61	
			For >250 To 500, Deduct	-1.15	
			For >500, Deduct	-1.69	
26 05 29 00-0174	EA		3", One Hole Steel Conduit Strap 7.68		
			For Work In Restricted Working Space, Add	1.43	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.29	
			For >50 To 100, Deduct	-0.31	
			For >100 To 250, Deduct	-0.62	
			For >250 To 500, Deduct	-1.17	
			For >500, Deduct	-1.72	
26 05 29 00-0175	EA		3-1/2", One Hole Steel Conduit Strap 8.96		
			For Work In Restricted Working Space, Add	1.43	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.29	
			For >50 To 100, Deduct	-0.34	
			For >100 To 250, Deduct	-0.69	
			For >250 To 500, Deduct	-1.27	
			For >500, Deduct	-1.85	
26 05 29 00-0176	EA		4", One Hole Steel Conduit Strap 9.99		
			For Work In Restricted Working Space, Add	1.43	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.29	
			For >50 To 100, Deduct	-0.37	
			For >100 To 250, Deduct	-0.74	
			For >250 To 500, Deduct	-1.34	
			For >500, Deduct	-1.95	
26 05 29 00-0177			One Hole Iron Conduit Straps (26 05 29 00-0165)		
26 05 29 00-0178	EA		1/2", One Hole Iron Conduit Strap 5.39		
			For Work In Restricted Working Space, Add	1.43	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.29	
			For >50 To 100, Deduct	-0.25	
			For >100 To 250, Deduct	-0.51	
			For >250 To 500, Deduct	-1.00	
			For >500, Deduct	-1.49	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0179 EA 3/4", One Hole Iron Conduit Strap 5.52		
For Work In Restricted Working Space, Add	1.43	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.29	
For >50 To 100, Deduct	-0.26	
For >100 To 250, Deduct	-0.51	
For >250 To 500, Deduct	-1.01	
For >500, Deduct	-1.50	
26 05 29 00-0180 EA 1", One Hole Iron Conduit Strap 5.74		
For Work In Restricted Working Space, Add	1.43	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.29	
For >50 To 100, Deduct	-0.26	
For >100 To 250, Deduct	-0.52	
For >250 To 500, Deduct	-1.02	
For >500, Deduct	-1.52	
26 05 29 00-0181 EA 1-1/4", One Hole Iron Conduit Strap 6.27		
For Work In Restricted Working Space, Add	1.43	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.29	
For >50 To 100, Deduct	-0.28	
For >100 To 250, Deduct	-0.55	
For >250 To 500, Deduct	-1.06	
For >500, Deduct	-1.58	
26 05 29 00-0182 EA 1-1/2", One Hole Iron Conduit Strap 6.48		
For Work In Restricted Working Space, Add	1.43	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.29	
For >50 To 100, Deduct	-0.28	
For >100 To 250, Deduct	-0.56	
For >250 To 500, Deduct	-1.08	
For >500, Deduct	-1.60	
26 05 29 00-0183 EA 2", One Hole Iron Conduit Strap 7.83		
For Work In Restricted Working Space, Add	1.43	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.29	
For >50 To 100, Deduct	-0.31	
For >100 To 250, Deduct	-0.63	
For >250 To 500, Deduct	-1.18	
For >500, Deduct	-1.73	
26 05 29 00-0184 EA 2-1/2", One Hole Iron Conduit Strap 10.73		
For Work In Restricted Working Space, Add	1.43	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.29	
For >50 To 100, Deduct	-0.39	
For >100 To 250, Deduct	-0.77	
For >250 To 500, Deduct	-1.40	
For >500, Deduct	-2.02	
26 05 29 00-0185 EA 3", One Hole Iron Conduit Strap 13.15		
For Work In Restricted Working Space, Add	1.43	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.29	
For >50 To 100, Deduct	-0.45	
For >100 To 250, Deduct	-0.90	
For >250 To 500, Deduct	-1.58	
For >500, Deduct	-2.27	
26 05 29 00-0186 EA 3-1/2", One Hole Iron Conduit Strap 16.68		
For Work In Restricted Working Space, Add	1.43	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.29	
For >50 To 100, Deduct	-0.54	
For >100 To 250, Deduct	-1.07	
For >250 To 500, Deduct	-1.84	
For >500, Deduct	-2.62	
26 05 29 00-0187 EA 4", One Hole Iron Conduit Strap 30.82		
For Work In Restricted Working Space, Add	1.43	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.29	
For >50 To 100, Deduct	-0.89	
For >100 To 250, Deduct	-1.78	
For >250 To 500, Deduct	-2.91	
For >500, Deduct	-4.03	
26 05 29 00-0188 EA 5", One Hole Iron Conduit Strap 38.43		
For Work In Restricted Working Space, Add	1.43	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.29	
For >50 To 100, Deduct	-1.08	
For >100 To 250, Deduct	-2.16	
For >250 To 500, Deduct	-3.48	
For >500, Deduct	-4.79	
26 05 29 00-0189 Two Hole Steel Conduit Straps (26 05 29 00-0165)		
26 05 29 00-0190 EA 1/2", Two Hole Steel Conduit Strap 6.08		
For Work In Restricted Working Space, Add	1.60	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.54	
For >50 To 100, Deduct	-0.29	
For >100 To 250, Deduct	-0.57	
For >250 To 500, Deduct	-1.12	
For >500, Deduct	-1.68	
26 05 29 00-0191 EA 3/4", Two Hole Steel Conduit Strap 6.16		
For Work In Restricted Working Space, Add	1.60	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.54	
For >50 To 100, Deduct	-0.29	
For >100 To 250, Deduct	-0.58	
For >250 To 500, Deduct	-1.13	
For >500, Deduct	-1.68	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0192	EA		1", Two Hole Steel Conduit Strap 6.21		
			For Work In Restricted Working Space, Add	1.60	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.54	
			For >50 To 100, Deduct	-0.29	
			For >100 To 250, Deduct	-0.58	
			For >250 To 500, Deduct	-1.13	
			For >500, Deduct	-1.69	
26 05 29 00-0193	EA		1-1/4", Two Hole Steel Conduit Strap 6.27		
			For Work In Restricted Working Space, Add	1.60	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.54	
			For >50 To 100, Deduct	-0.29	
			For >100 To 250, Deduct	-0.58	
			For >250 To 500, Deduct	-1.14	
			For >500, Deduct	-1.70	
26 05 29 00-0194	EA		1-1/2", Two Hole Steel Conduit Strap 6.31		
			For Work In Restricted Working Space, Add	1.60	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.54	
			For >50 To 100, Deduct	-0.29	
			For >100 To 250, Deduct	-0.58	
			For >250 To 500, Deduct	-1.14	
			For >500, Deduct	-1.70	
26 05 29 00-0195	EA		2", Two Hole Steel Conduit Strap 6.41		
			For Work In Restricted Working Space, Add	1.60	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.54	
			For >50 To 100, Deduct	-0.29	
			For >100 To 250, Deduct	-0.59	
			For >250 To 500, Deduct	-1.15	
			For >500, Deduct	-1.71	
26 05 29 00-0196	EA		2-1/2", Two Hole Steel Conduit Strap 7.00		
			For Work In Restricted Working Space, Add	1.60	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.54	
			For >50 To 100, Deduct	-0.31	
			For >100 To 250, Deduct	-0.62	
			For >250 To 500, Deduct	-1.19	
			For >500, Deduct	-1.77	
26 05 29 00-0197	EA		3", Two Hole Steel Conduit Strap 7.12		
			For Work In Restricted Working Space, Add	1.60	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.54	
			For >50 To 100, Deduct	-0.31	
			For >100 To 250, Deduct	-0.62	
			For >250 To 500, Deduct	-1.20	
			For >500, Deduct	-1.78	
26 05 29 00-0198	EA		3-1/2", Two Hole Steel Conduit Strap 7.58		
			For Work In Restricted Working Space, Add	1.60	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.54	
			For >50 To 100, Deduct	-0.32	
			For >100 To 250, Deduct	-0.65	
			For >250 To 500, Deduct	-1.24	
			For >500, Deduct	-1.83	
26 05 29 00-0199	EA		4", Two Hole Steel Conduit Strap 7.89		
			For Work In Restricted Working Space, Add	1.60	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.54	
			For >50 To 100, Deduct	-0.33	
			For >100 To 250, Deduct	-0.66	
			For >250 To 500, Deduct	-1.26	
			For >500, Deduct	-1.86	
26 05 29 00-0200	EA		5", Two Hole Steel Conduit Strap 8.31		
			For Work In Restricted Working Space, Add	1.60	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.54	
			For >50 To 100, Deduct	-0.34	
			For >100 To 250, Deduct	-0.68	
			For >250 To 500, Deduct	-1.29	
			For >500, Deduct	-1.90	
26 05 29 00-0201			Clamp Back Spacers (26 05 29 00-0165).....4.76		
26 05 29 00-0202	EA		1/2" Conduit, Clamp Back Spacer 4.76		
			For Work In Restricted Working Space, Add	1.11	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.03	
			For >50 To 100, Deduct	-0.21	
			For >100 To 250, Deduct	-0.42	
			For >250 To 500, Deduct	-0.82	
			For >500, Deduct	-1.22	
26 05 29 00-0203	EA		3/4" Conduit, Clamp Back Spacer 5.11		
			For Work In Restricted Working Space, Add	1.11	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.03	
			For >50 To 100, Deduct	-0.22	
			For >100 To 250, Deduct	-0.44	
			For >250 To 500, Deduct	-0.85	
			For >500, Deduct	-1.25	
26 05 29 00-0204	EA		1" Conduit, Clamp Back Spacer 5.43		
			For Work In Restricted Working Space, Add	1.11	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.03	
			For >50 To 100, Deduct	-0.23	
			For >100 To 250, Deduct	-0.46	
			For >250 To 500, Deduct	-0.87	
			For >500, Deduct	-1.29	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0205	EA		1-1/4" Conduit, Clamp Back Spacer	6.69	
			For Work In Restricted Working Space, Add	1.11	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.03	
			For >50 To 100, Deduct	-0.26	
			For >100 To 250, Deduct	-0.52	
			For >250 To 500, Deduct	-0.97	
			For >500, Deduct	-1.41	
26 05 29 00-0206	EA		1-1/2" Conduit, Clamp Back Spacer	7.71	
			For Work In Restricted Working Space, Add	1.11	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.03	
			For >50 To 100, Deduct	-0.29	
			For >100 To 250, Deduct	-0.57	
			For >250 To 500, Deduct	-1.04	
			For >500, Deduct	-1.51	
26 05 29 00-0207	EA		2" Conduit, Clamp Back Spacer	8.78	
			For Work In Restricted Working Space, Add	1.11	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.03	
			For >50 To 100, Deduct	-0.31	
			For >100 To 250, Deduct	-0.62	
			For >250 To 500, Deduct	-1.12	
			For >500, Deduct	-1.62	
26 05 29 00-0208	EA		2-1/2" Conduit, Clamp Back Spacer	13.11	
			For Work In Restricted Working Space, Add	1.11	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.03	
			For >50 To 100, Deduct	-0.42	
			For >100 To 250, Deduct	-0.84	
			For >250 To 500, Deduct	-1.45	
			For >500, Deduct	-2.05	
26 05 29 00-0209	EA		3" Conduit, Clamp Back Spacer	18.29	
			For Work In Restricted Working Space, Add	1.11	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.03	
			For >50 To 100, Deduct	-0.55	
			For >100 To 250, Deduct	-1.10	
			For >250 To 500, Deduct	-1.84	
			For >500, Deduct	-2.57	
26 05 29 00-0210	EA		3-1/2" Conduit, Clamp Back Spacer	23.32	
			For Work In Restricted Working Space, Add	1.11	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.03	
			For >50 To 100, Deduct	-0.68	
			For >100 To 250, Deduct	-1.35	
			For >250 To 500, Deduct	-2.21	
			For >500, Deduct	-3.07	
26 05 29 00-0211	EA		4" Conduit, Clamp Back Spacer	46.94	
			For Work In Restricted Working Space, Add	1.11	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.03	
			For >50 To 100, Deduct	-1.27	
			For >100 To 250, Deduct	-2.53	
			For >250 To 500, Deduct	-3.98	
			For >500, Deduct	-5.44	
26 05 29 00-0212	EA		5" Conduit, Clamp Back Spacer	86.82	
			For Work In Restricted Working Space, Add	1.11	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.03	
			For >50 To 100, Deduct	-2.26	
			For >100 To 250, Deduct	-4.53	
			For >250 To 500, Deduct	-6.98	
			For >500, Deduct	-9.42	
26 05 29 00-0213			Conduit Clips (26 05 29 00-0165)		
			Note: Push in or clip.		
26 05 29 00-0214	EA		1/2" Conduit Clip	5.87	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.29	
			For >50 To 100, Deduct	-0.27	
			For >100 To 250, Deduct	-0.53	
			For >250 To 500, Deduct	-1.03	
			For >500, Deduct	-1.54	
26 05 29 00-0215	EA		3/4" Conduit Clip	5.87	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.29	
			For >50 To 100, Deduct	-0.27	
			For >100 To 250, Deduct	-0.53	
			For >250 To 500, Deduct	-1.03	
			For >500, Deduct	-1.54	
26 05 29 00-0216	EA		1" Conduit Clip	5.78	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.29	
			For >50 To 100, Deduct	-0.26	
			For >100 To 250, Deduct	-0.53	
			For >250 To 500, Deduct	-1.03	
			For >500, Deduct	-1.53	
26 05 29 00-0217	EA		1-1/4" Conduit Clip	6.00	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.29	
			For >50 To 100, Deduct	-0.27	
			For >100 To 250, Deduct	-0.54	
			For >250 To 500, Deduct	-1.04	
			For >500, Deduct	-1.55	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0218			Bolt And Nut Conduit Clips (26 05 29 00-0165)		
26 05 29 00-0219	EA		3/4" Bolt And Nut Conduit Clip (Minerallac 1B).....	7.29	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.58	
			For >50 To 100, Deduct	-0.33	
			For >100 To 250, Deduct	-0.66	
			For >250 To 500, Deduct	-1.29	
			For >500, Deduct	-1.92	
26 05 29 00-0220	EA		1" Bolt And Nut Conduit Clip (Minerallac 2B).....	7.51	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.58	
			For >50 To 100, Deduct	-0.34	
			For >100 To 250, Deduct	-0.67	
			For >250 To 500, Deduct	-1.30	
			For >500, Deduct	-1.94	
26 05 29 00-0221	EA		1-1/4" Bolt And Nut Conduit Clip (Minerallac 2-1/2B).....	8.00	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.68	
			For >50 To 100, Deduct	-0.36	
			For >100 To 250, Deduct	-0.72	
			For >250 To 500, Deduct	-1.39	
			For >500, Deduct	-2.06	
26 05 29 00-0222	EA		1-1/2" Bolt And Nut Conduit Clip (Minerallac 3B).....	8.12	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.68	
			For >50 To 100, Deduct	-0.36	
			For >100 To 250, Deduct	-0.72	
			For >250 To 500, Deduct	-1.40	
			For >500, Deduct	-2.07	
26 05 29 00-0223	EA		2" Bolt And Nut Conduit Clip (Minerallac 5B).....	8.95	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.68	
			For >50 To 100, Deduct	-0.38	
			For >100 To 250, Deduct	-0.76	
			For >250 To 500, Deduct	-1.46	
			For >500, Deduct	-2.16	
26 05 29 00-0224	EA		2-1/2" Bolt And Nut Conduit Clip (Minerallac 6B).....	9.67	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.77	
			For >50 To 100, Deduct	-0.41	
			For >100 To 250, Deduct	-0.82	
			For >250 To 500, Deduct	-1.56	
			For >500, Deduct	-2.30	
26 05 29 00-0225	EA		3" Bolt And Nut Conduit Clip (Minerallac 7B).....	10.41	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.77	
			For >50 To 100, Deduct	-0.43	
			For >100 To 250, Deduct	-0.85	
			For >250 To 500, Deduct	-1.61	
			For >500, Deduct	-2.38	
26 05 29 00-0226	EA		4" Bolt And Nut Conduit Clip (Minerallac 9B).....	18.07	
			For Installation On Concrete (Includes Drilling And Fastener), Add	1.95	
			For >50 To 100, Deduct	-0.64	
			For >100 To 250, Deduct	-1.27	
			For >250 To 500, Deduct	-2.28	
			For >500, Deduct	-3.29	
26 05 29 00-0227			Conduit Hanger From Flange, Wire Or Rod (26 05 29 00-0165)		
			Note: Bat wing.		
26 05 29 00-0228	EA		1/2", Conduit Hanger From Flange, Wire Or Rod	4.26	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.99	
			For >50 To 100, Deduct	-0.20	
			For >100 To 250, Deduct	-0.39	
			For >250 To 500, Deduct	-0.76	
			For >500, Deduct	-1.14	
26 05 29 00-0229	EA		3/4", Conduit Hanger From Flange, Wire Or Rod	4.32	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.99	
			For >50 To 100, Deduct	-0.20	
			For >100 To 250, Deduct	-0.39	
			For >250 To 500, Deduct	-0.77	
			For >500, Deduct	-1.14	
26 05 29 00-0230	EA		1", Conduit Hanger From Flange, Wire Or Rod	4.48	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.99	
			For >50 To 100, Deduct	-0.20	
			For >100 To 250, Deduct	-0.40	
			For >250 To 500, Deduct	-0.78	
			For >500, Deduct	-1.16	
26 05 29 00-0231	EA		1-1/4", Conduit Hanger From Flange, Wire Or Rod	4.90	
			For Installation On Concrete (Includes Drilling And Fastener), Add	0.99	
			For >50 To 100, Deduct	-0.21	
			For >100 To 250, Deduct	-0.42	
			For >250 To 500, Deduct	-0.81	
			For >500, Deduct	-1.20	
26 05 29 00-0232			Beam Flange Clamps (26 05 29 00-0165)		
			Note: For threaded rod, nut not required.		

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0233 EA 1/8" To 1/4" Flange Thickness, Beam Clamp (Caddy 6TA24)	6.03	
For>50 To 100, Deduct	-0.24	
For>100 To 250, Deduct	-0.49	
For>250 To 500, Deduct	-0.92	
For>500, Deduct	-1.35	
26 05 29 00-0234 EA 5/16" To 1/2" Flange Thickness, Beam Clamp (Caddy 6TA58)	5.93	
For>50 To 100, Deduct	-0.24	
For>100 To 250, Deduct	-0.48	
For>250 To 500, Deduct	-0.91	
For>500, Deduct	-1.34	
26 05 29 00-0235 EA 9/16" To 3/4" Flange Thickness, Beam Clamp (Caddy 6TA912)	6.57	
For>50 To 100, Deduct	-0.26	
For>100 To 250, Deduct	-0.51	
For>250 To 500, Deduct	-0.96	
For>500, Deduct	-1.40	
26 05 29 00-0236 T-Bar Support Clips (26 05 29 00-0165)		
26 05 29 00-0237 EA 9/16" Grid Size, Independent T-Bar Support Clip (Caddy IDS95).....	10.23	
For>50 To 100, Deduct	-0.44	
For>100 To 250, Deduct	-0.88	
For>250 To 500, Deduct	-1.69	
For>500, Deduct	-2.51	
26 05 29 00-0238 EA 15/16" Grid Size, Independent T-Bar Support Clip (Caddy IDS).....	9.73	
For>50 To 100, Deduct	-0.43	
For>100 To 250, Deduct	-0.86	
For>250 To 500, Deduct	-1.66	
For>500, Deduct	-2.46	
26 05 29 00-0239 EA 15/16" Grid Size, Twist On T-Bar Support Clip (Caddy 4G16).....	3.58	
For>50 To 100, Deduct	-0.14	
For>100 To 250, Deduct	-0.27	
For>250 To 500, Deduct	-0.50	
For>500, Deduct	-0.73	
26 05 29 00-0240 EA 24" Long Snap On T-Bar Electrical Box Hanger (Caddy 512).....	27.82	
For>50 To 100, Deduct	-0.77	
For>100 To 250, Deduct	-1.54	
For>250 To 500, Deduct	-2.46	
For>500, Deduct	-3.38	
26 05 29 00-0241 Switch And Outlet Box Type Supports (26 05 29 00-0165)		
26 05 29 00-0242 EA 1/4" To 3/4" Drywall Thickness, Adjustable Switch And Outlet Box Support (Caddy MFS)	7.21	
For>50 To 100, Deduct	-0.25	
For>100 To 250, Deduct	-0.51	
For>250 To 500, Deduct	-0.91	
For>500, Deduct	-1.32	
26 05 29 00-0243 EA 1/2" Drywall Thickness, Riveted Switch And Outlet Box Support (Caddy MF500).....	6.17	
For>50 To 100, Deduct	-0.23	
For>100 To 250, Deduct	-0.46	
For>250 To 500, Deduct	-0.83	
For>500, Deduct	-1.21	
26 05 29 00-0244 EA Flush, Riveted Switch And Outlet Box Support (Caddy MFO)	7.06	
For>50 To 100, Deduct	-0.25	
For>100 To 250, Deduct	-0.50	
For>250 To 500, Deduct	-0.90	
For>500, Deduct	-1.30	
26 05 29 00-0245 EA Snap On, Switch And Outlet Box Support (Caddy MSF)	4.68	
For>50 To 100, Deduct	-0.19	
For>100 To 250, Deduct	-0.38	
For>250 To 500, Deduct	-0.72	
For>500, Deduct	-1.06	
26 05 29 00-0246 EA 1/4-20 Thread Impression, Switch And Outlet Box Support (Caddy MFI).....	4.87	
For>50 To 100, Deduct	-0.20	
For>100 To 250, Deduct	-0.39	
For>250 To 500, Deduct	-0.74	
For>500, Deduct	-1.08	
26 05 29 00-0247 Lighting Fixture Hanger (26 05 29 00-0165)		
Note: For existing or owner furnished fixtures.		
26 05 29 00-0248 EA Lay-In/Troffer, Straight Lip Type Fixture Support Clip (Caddy 515)	6.95	
For>50 To 100, Deduct	-0.32	
For>100 To 250, Deduct	-0.64	
For>250 To 500, Deduct	-1.26	
For>500, Deduct	-1.88	
26 05 29 00-0249 PR Support Bars For Recessed "High Hat" Light Fixtures (Caddy 517)	22.46	
For>50 To 100, Deduct	-0.71	
For>100 To 250, Deduct	-1.42	
For>250 To 500, Deduct	-2.43	
For>500, Deduct	-3.43	
26 05 29 00-0250 PR Support Bars For Recessed "Lightolier" Light Fixtures (Caddy 520)	30.61	
For>50 To 100, Deduct	-0.91	
For>100 To 250, Deduct	-1.83	
For>250 To 500, Deduct	-3.04	
For>500, Deduct	-4.25	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0251			Rigid Steel Conduit Clamps For Unistrut Channel (26 05 29 00-0165)		
26 05 29 00-0252	EA		1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	6.06	
			For >50 To 100, Deduct	-0.26	
			For >100 To 250, Deduct	-0.53	
			For >250 To 500, Deduct	-1.01	
			For >500, Deduct	-1.50	
			For Work In Restricted Working Space, Add	1.34	
26 05 29 00-0253	EA		3/4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	6.08	
			For >50 To 100, Deduct	-0.26	
			For >100 To 250, Deduct	-0.53	
			For >250 To 500, Deduct	-1.01	
			For >500, Deduct	-1.50	
			For Work In Restricted Working Space, Add	1.34	
26 05 29 00-0254	EA		1" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	6.21	
			For >50 To 100, Deduct	-0.27	
			For >100 To 250, Deduct	-0.53	
			For >250 To 500, Deduct	-1.02	
			For >500, Deduct	-1.51	
			For Work In Restricted Working Space, Add	1.34	
26 05 29 00-0255	EA		1-1/4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	7.86	
			For >50 To 100, Deduct	-0.34	
			For >100 To 250, Deduct	-0.69	
			For >250 To 500, Deduct	-1.33	
			For >500, Deduct	-1.97	
			For Work In Restricted Working Space, Add	1.78	
26 05 29 00-0256	EA		1-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	8.52	
			For >50 To 100, Deduct	-0.36	
			For >100 To 250, Deduct	-0.72	
			For >250 To 500, Deduct	-1.38	
			For >500, Deduct	-2.04	
			For Work In Restricted Working Space, Add	1.78	
26 05 29 00-0257	EA		2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	8.58	
			For >50 To 100, Deduct	-0.36	
			For >100 To 250, Deduct	-0.73	
			For >250 To 500, Deduct	-1.38	
			For >500, Deduct	-2.04	
			For Work In Restricted Working Space, Add	1.78	
26 05 29 00-0258	EA		2-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	10.53	
			For >50 To 100, Deduct	-0.45	
			For >100 To 250, Deduct	-0.90	
			For >250 To 500, Deduct	-1.72	
			For >500, Deduct	-2.54	
			For Work In Restricted Working Space, Add	2.22	
26 05 29 00-0259	EA		3" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	11.11	
			For >50 To 100, Deduct	-0.46	
			For >100 To 250, Deduct	-0.93	
			For >250 To 500, Deduct	-1.76	
			For >500, Deduct	-2.59	
			For Work In Restricted Working Space, Add	2.22	
26 05 29 00-0260	EA		3-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	11.67	
			For >50 To 100, Deduct	-0.48	
			For >100 To 250, Deduct	-0.95	
			For >250 To 500, Deduct	-1.80	
			For >500, Deduct	-2.65	
			For Work In Restricted Working Space, Add	2.22	
26 05 29 00-0261	EA		4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel	11.87	
			For >50 To 100, Deduct	-0.48	
			For >100 To 250, Deduct	-0.96	
			For >250 To 500, Deduct	-1.82	
			For >500, Deduct	-2.67	
			For Work In Restricted Working Space, Add	2.22	
26 05 29 00-0262			Electrical Metallic Tubing (EMT) Conduit Clamps For Unistrut Channel (26 05 29 00-0165)		
26 05 29 00-0263	EA		1/2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel	6.48	
			For >50 To 100, Deduct	-0.27	
			For >100 To 250, Deduct	-0.55	
			For >250 To 500, Deduct	-1.04	
			For >500, Deduct	-1.54	
			For Work In Restricted Working Space, Add	1.34	
26 05 29 00-0264	EA		3/4" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel	6.43	
			For >50 To 100, Deduct	-0.27	
			For >100 To 250, Deduct	-0.54	
			For >250 To 500, Deduct	-1.04	
			For >500, Deduct	-1.53	
			For Work In Restricted Working Space, Add	1.34	
26 05 29 00-0265	EA		1" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel	6.37	
			For >50 To 100, Deduct	-0.27	
			For >100 To 250, Deduct	-0.54	
			For >250 To 500, Deduct	-1.03	
			For >500, Deduct	-1.53	
			For Work In Restricted Working Space, Add	1.34	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0266 EA 1-1/4" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	8.38	
For >50 To 100, Deduct	-0.36	
For >100 To 250, Deduct	-0.72	
For >250 To 500, Deduct	-1.37	
For >500, Deduct	-2.02	
For Work In Restricted Working Space, Add	1.78	
26 05 29 00-0267 EA 1-1/2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	9.52	
For >50 To 100, Deduct	-0.39	
For >100 To 250, Deduct	-0.77	
For >250 To 500, Deduct	-1.46	
For >500, Deduct	-2.14	
For Work In Restricted Working Space, Add	1.78	
26 05 29 00-0268 EA 2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	9.59	
For >50 To 100, Deduct	-0.39	
For >100 To 250, Deduct	-0.78	
For >250 To 500, Deduct	-1.46	
For >500, Deduct	-2.15	
For Work In Restricted Working Space, Add	1.78	
26 05 29 00-0269 "J" Type Conduit Hangers (26 05 29 00-0165)		
26 05 29 00-0270 EA 1/2", "J" Type Conduit Hanger (Unistrut J1205).....	27.48	
For >50 To 100, Deduct	-0.95	
For >100 To 250, Deduct	-1.89	
For >250 To 500, Deduct	-3.36	
For >500, Deduct	-4.82	
For Work In Restricted Working Space, Add	3.11	
26 05 29 00-0271 EA 3/4", "J" Type Conduit Hanger (Unistrut J1207).....	27.78	
For >50 To 100, Deduct	-0.95	
For >100 To 250, Deduct	-1.91	
For >250 To 500, Deduct	-3.38	
For >500, Deduct	-4.85	
For Work In Restricted Working Space, Add	3.11	
26 05 29 00-0272 EA 1", "J" Type Conduit Hanger (Unistrut J1210).....	29.54	
For >50 To 100, Deduct	-1.04	
For >100 To 250, Deduct	-2.07	
For >250 To 500, Deduct	-3.70	
For >500, Deduct	-5.33	
For Work In Restricted Working Space, Add	3.56	
26 05 29 00-0273 EA 1-1/4", "J" Type Conduit Hanger (Unistrut J1212).....	29.86	
For >50 To 100, Deduct	-1.04	
For >100 To 250, Deduct	-2.09	
For >250 To 500, Deduct	-3.72	
For >500, Deduct	-5.36	
For Work In Restricted Working Space, Add	3.56	
26 05 29 00-0274 EA 1-1/2", "J" Type Conduit Hanger (Unistrut J1215).....	31.55	
For >50 To 100, Deduct	-1.12	
For >100 To 250, Deduct	-2.24	
For >250 To 500, Deduct	-4.03	
For >500, Deduct	-5.82	
For Work In Restricted Working Space, Add	4.00	
26 05 29 00-0275 EA 2", "J" Type Conduit Hanger (Unistrut J1220).....	32.77	
For >50 To 100, Deduct	-1.15	
For >100 To 250, Deduct	-2.31	
For >250 To 500, Deduct	-4.13	
For >500, Deduct	-5.95	
For Work In Restricted Working Space, Add	4.00	
26 05 29 00-0276 EA 2-1/2", "J" Type Conduit Hanger (Unistrut J1225).....	51.62	
For >50 To 100, Deduct	-1.66	
For >100 To 250, Deduct	-3.32	
For >250 To 500, Deduct	-5.73	
For >500, Deduct	-8.13	
For Work In Restricted Working Space, Add	4.45	
26 05 29 00-0277 EA 3", "J" Type Conduit Hanger (Unistrut J1230).....	54.93	
For >50 To 100, Deduct	-1.78	
For >100 To 250, Deduct	-3.56	
For >250 To 500, Deduct	-6.16	
For >500, Deduct	-8.76	
For Work In Restricted Working Space, Add	4.89	
26 05 29 00-0278 EA 3-1/2", "J" Type Conduit Hanger (Unistrut J1235).....	59.16	
For >50 To 100, Deduct	-1.92	
For >100 To 250, Deduct	-3.85	
For >250 To 500, Deduct	-6.66	
For >500, Deduct	-9.47	
For Work In Restricted Working Space, Add	5.34	
26 05 29 00-0279 EA 4", "J" Type Conduit Hanger (Unistrut J1240).....	78.00	
For >50 To 100, Deduct	-2.39	
For >100 To 250, Deduct	-4.79	
For >250 To 500, Deduct	-8.07	
For >500, Deduct	-11.36	
For Work In Restricted Working Space, Add	5.34	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0280	EA	5", "J" Type Conduit Hanger (Unistrut J1250).....	85.66		
		For >50 To 100, Deduct	-2.62		
		For >100 To 250, Deduct	-5.25		
		For >250 To 500, Deduct	-8.83		
		For >500, Deduct	-12.42		
		For Work In Restricted Working Space, Add	5.78		
26 05 29 00-0281	EA	6", "J" Type Conduit Hanger (Unistrut J1260).....	120.19		
		For >50 To 100, Deduct	-3.56		
		For >100 To 250, Deduct	-7.12		
		For >250 To 500, Deduct	-11.79		
		For >500, Deduct	-16.47		
		For Work In Restricted Working Space, Add	6.67		
26 05 29 00-0282 Between Studs Box Brackets (26 05 29 00-0165)					
26 05 29 00-0283	EA	16" Stud Spacing, 1-1/2" Or 2-1/8" Box Depth, Screw Gun Between Studs Box Bracket (Caddy SGB16A)	9.99		
		For >50 To 100, Deduct	-0.36		
		For >100 To 250, Deduct	-0.72		
		For >250 To 500, Deduct	-1.31		
		For >500, Deduct	-1.89		
		For Work In Restricted Working Space, Add	1.34		
26 05 29 00-0284	EA	24" Stud Spacing, 1-1/2" Or 2-1/8" Box Depth, Screw Gun Between Studs Box Bracket (Caddy SGB24A)	11.91		
		For >50 To 100, Deduct	-0.41		
		For >100 To 250, Deduct	-0.82		
		For >250 To 500, Deduct	-1.45		
		For >500, Deduct	-2.08		
		For Work In Restricted Working Space, Add	1.34		
26 05 29 00-0285 Hangers And Brackets (26 05 29 00-0165)					
26 05 29 00-0286	EA	Rod Hangers Only With 1/4" Thread Impression (Caddy 4TI)	3.70		
		For >50 To 100, Deduct	-0.17		
		For >100 To 250, Deduct	-0.33		
		For >250 To 500, Deduct	-0.65		
		For >500, Deduct	-0.96		
26 05 29 00-0287	EA	Angle Bracket Only With 1/4" Hole (Caddy AB).....	3.59		
		For >50 To 100, Deduct	-0.16		
		For >100 To 250, Deduct	-0.33		
		For >250 To 500, Deduct	-0.64		
		For >500, Deduct	-0.95		
26 05 29 00-0288	EA	Offset Bracket Only With 1/4" Hole (Caddy AO).....	3.59		
		For >50 To 100, Deduct	-0.16		
		For >100 To 250, Deduct	-0.33		
		For >250 To 500, Deduct	-0.64		
		For >500, Deduct	-0.95		
26 05 29 00-0289	EA	Angle Bracket Mount, 1/4" Threaded Rod Hanger With Thread Impression (Caddy 4TIB).....	4.74		
		For >50 To 100, Deduct	-0.19		
		For >100 To 250, Deduct	-0.39		
		For >250 To 500, Deduct	-0.73		
		For >500, Deduct	-1.07		
26 05 29 00-0290	EA	Angle Bracket Mount, 3/8" Threaded Rod Hanger With Thread Impression (Caddy 6TIB).....	4.76		
		For >50 To 100, Deduct	-0.19		
		For >100 To 250, Deduct	-0.39		
		For >250 To 500, Deduct	-0.73		
		For >500, Deduct	-1.07		
26 05 29 00-0291	EA	Angle Bracket Mount, 1/4" Or 3/8" Threaded Rod Hanger With Nut (Caddy 6TB).....	4.63		
		For >50 To 100, Deduct	-0.19		
		For >100 To 250, Deduct	-0.38		
		For >250 To 500, Deduct	-0.72		
		For >500, Deduct	-1.06		
26 05 29 00-0292	EA	Offset Bracket Mount, 1/4" Threaded Rod Hanger With Thread Impression (Caddy 4TIO).....	4.74		
		For >50 To 100, Deduct	-0.19		
		For >100 To 250, Deduct	-0.39		
		For >250 To 500, Deduct	-0.73		
		For >500, Deduct	-1.07		
26 05 29 00-0293	EA	Offset Bracket Mount, 3/8" Threaded Rod Hanger With Thread Impression (Caddy 6TIO).....	4.76		
		For >50 To 100, Deduct	-0.19		
		For >100 To 250, Deduct	-0.39		
		For >250 To 500, Deduct	-0.73		
		For >500, Deduct	-1.07		
26 05 29 00-0294 Clips And Accessories (26 05 29 00-0165)					
26 05 29 00-0295	EA	1/2" Diameter Center, Bridle Ring (Caddy 2BR)	2.49		
		For >50 To 100, Deduct	-0.11		
		For >100 To 250, Deduct	-0.22		
		For >250 To 500, Deduct	-0.42		
		For >500, Deduct	-0.62		
26 05 29 00-0296	EA	3/4" Diameter Center, Bridle Ring (Caddy 2BR12).....	2.53		
		For >50 To 100, Deduct	-0.11		
		For >100 To 250, Deduct	-0.22		
		For >250 To 500, Deduct	-0.42		
		For >500, Deduct	-0.62		

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0297 EA 1-1/4" Diameter Center, Bridle Ring (Caddy 2BR20).....	2.70	
For >50 To 100, Deduct	-0.11	
For >100 To 250, Deduct	-0.23	
For >250 To 500, Deduct	-0.43	
For >500, Deduct	-0.64	
26 05 29 00-0298 EA 2" Diameter Center, Bridle Ring (Caddy 2BR32).....	3.07	
For >50 To 100, Deduct	-0.12	
For >100 To 250, Deduct	-0.25	
For >250 To 500, Deduct	-0.46	
For >500, Deduct	-0.68	
26 05 29 00-0299 Wire Ties (26 05 29 00-0165)		
Note: Per hundred (C).		
26 05 29 00-0300 C 3" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	36.43	
For Up To 0.1, Add	30.93	
For >0.1 To 0.25, Add	15.47	
For >0.25 To 0.75, Add	7.73	
For >2.0, Deduct	-3.09	
For UV Black, Add	0.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.28	
26 05 29 00-0301 C 4" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	36.65	
For Up To 0.1, Add	30.93	
For >0.1 To 0.25, Add	15.47	
For >0.25 To 0.75, Add	7.73	
For >2.0, Deduct	-3.09	
For UV Black, Add	0.86	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.28	
26 05 29 00-0302 C 4-3/4" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	36.79	
For Up To 0.1, Add	30.93	
For >0.1 To 0.25, Add	15.47	
For >0.25 To 0.75, Add	7.73	
For >2.0, Deduct	-3.09	
For UV Black, Add	0.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.28	
26 05 29 00-0303 C 5-1/2" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	36.86	
For Up To 0.1, Add	30.93	
For >0.1 To 0.25, Add	15.47	
For >0.25 To 0.75, Add	7.73	
For >2.0, Deduct	-3.09	
For UV Black, Add	0.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.28	
26 05 29 00-0304 C 6-1/2" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	38.26	
For Up To 0.1, Add	32.27	
For >0.1 To 0.25, Add	16.14	
For >0.25 To 0.75, Add	8.07	
For >2.0, Deduct	-3.23	
For UV Black, Add	0.90	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.68	
26 05 29 00-0305 C 8" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	44.38	
For Up To 0.1, Add	33.74	
For >0.1 To 0.25, Add	16.87	
For >0.25 To 0.75, Add	8.44	
For >2.0, Deduct	-3.37	
For UV Black, Add	1.60	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.12	
26 05 29 00-0306 C 4-3/4" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	42.34	
For Up To 0.1, Add	30.93	
For >0.1 To 0.25, Add	15.47	
For >0.25 To 0.75, Add	7.73	
For >2.0, Deduct	-3.09	
For UV Black, Add	1.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.28	
26 05 29 00-0307 C 6" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	43.77	
For Up To 0.1, Add	32.27	
For >0.1 To 0.25, Add	16.14	
For >0.25 To 0.75, Add	8.07	
For >2.0, Deduct	-3.23	
For UV Black, Add	1.73	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.68	
26 05 29 00-0308 C 8" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	45.30	
For Up To 0.1, Add	33.74	
For >0.1 To 0.25, Add	16.87	
For >0.25 To 0.75, Add	8.44	
For >2.0, Deduct	-3.37	
For UV Black, Add	1.73	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.12	
26 05 29 00-0309 C 10" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	63.04	
For Up To 0.1, Add	36.38	
For >0.1 To 0.25, Add	18.19	
For >0.25 To 0.75, Add	9.10	
For >2.0, Deduct	-3.64	
For UV Black, Add	4.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.91	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0310	C		11-1/2" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	65.45	
			For Up To 0.1, Add	36.38	
			For >0.1 To 0.25, Add	18.19	
			For >0.25 To 0.75, Add	9.10	
			For >2.0, Deduct	-3.64	
			For UV Black, Add	4.36	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.91	
26 05 29 00-0311	C		7" Length, 50 LB Tensile Strength, Nylon Cable Ties.....	46.98	
			For Up To 0.1, Add	33.74	
			For >0.1 To 0.25, Add	16.87	
			For >0.25 To 0.75, Add	8.44	
			For >2.0, Deduct	-3.37	
			For UV Black, Add	1.99	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.12	
26 05 29 00-0312	C		8" Length, 50 LB Tensile Strength, Nylon Cable Ties.....	44.85	
			For Up To 0.1, Add	33.74	
			For >0.1 To 0.25, Add	16.87	
			For >0.25 To 0.75, Add	8.44	
			For >2.0, Deduct	-3.37	
			For UV Black, Add	1.67	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.12	
26 05 29 00-0313	C		11" Length, 50 LB Tensile Strength, Nylon Cable Ties.....	63.70	
			For Up To 0.1, Add	36.38	
			For >0.1 To 0.25, Add	18.19	
			For >0.25 To 0.75, Add	9.10	
			For >2.0, Deduct	-3.64	
			For UV Black, Add	4.10	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.91	
26 05 29 00-0314	C		14-1/2" Length, 50 LB Tensile Strength, Nylon Cable Ties.....	72.25	
			For Up To 0.1, Add	38.66	
			For >0.1 To 0.25, Add	19.33	
			For >0.25 To 0.75, Add	9.67	
			For >2.0, Deduct	-3.87	
			For UV Black, Add	5.04	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.60	
26 05 29 00-0315	C		8" Length, 120 LB Tensile Strength, Nylon Cable Ties.....	69.78	
			For Up To 0.1, Add	33.74	
			For >0.1 To 0.25, Add	16.87	
			For >0.25 To 0.75, Add	8.44	
			For >2.0, Deduct	-3.37	
			For UV Black, Add	5.41	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.12	
26 05 29 00-0316	C		11" Length, 120 LB Tensile Strength, Nylon Cable Ties.....	76.28	
			For Up To 0.1, Add	36.38	
			For >0.1 To 0.25, Add	18.19	
			For >0.25 To 0.75, Add	9.10	
			For >2.0, Deduct	-3.64	
			For UV Black, Add	5.99	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.91	
26 05 29 00-0317	C		15" Length, 120 LB Tensile Strength, Nylon Cable Ties.....	91.15	
			For Up To 0.1, Add	38.66	
			For >0.1 To 0.25, Add	19.33	
			For >0.25 To 0.75, Add	9.67	
			For >2.0, Deduct	-3.87	
			For UV Black, Add	7.87	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.60	
26 05 29 00-0318	C		17" Length, 120 LB Tensile Strength, Nylon Cable Ties.....	127.22	
			For Up To 0.1, Add	41.23	
			For >0.1 To 0.25, Add	20.62	
			For >0.25 To 0.75, Add	10.31	
			For >2.0, Deduct	-4.12	
			For UV Black, Add	12.90	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 05 29 00-0319	C		17-3/4" Length, 175 LB Tensile Strength, Nylon Cable Ties.....	123.55	
			For Up To 0.1, Add	41.23	
			For >0.1 To 0.25, Add	20.62	
			For >0.25 To 0.75, Add	10.31	
			For >2.0, Deduct	-4.12	
			For UV Black, Add	12.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.37	
26 05 29 00-0320	C		21-11/16" Length, 175 LB Tensile Strength, Nylon Cable Ties.....	148.94	
			For Up To 0.1, Add	43.16	
			For >0.1 To 0.25, Add	21.58	
			For >0.25 To 0.75, Add	10.79	
			For >2.0, Deduct	-4.32	
			For UV Black, Add	15.87	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.95	
26 05 29 00-0321	C		30" Length, 175 LB Tensile Strength, Nylon Cable Ties.....	171.34	
			For Up To 0.1, Add	45.25	
			For >0.1 To 0.25, Add	22.63	
			For >0.25 To 0.75, Add	11.31	
			For >2.0, Deduct	-4.53	
			For UV Black, Add	18.91	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.58	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0322 C 46" Length, 175 LB Tensile Strength, Nylon Cable Ties	232.03	
For Up To 0.1, Add	48.83	
For >0.1 To 0.25, Add	24.42	
For >0.25 To 0.75, Add	12.21	
For >2.0, Deduct	-4.88	
For UV Black, Add	27.48	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.65	
26 05 29 00-0323 C 3/4" x 3/4" Self Adhesive Tie Mounts	49.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.92	
26 05 29 00-0324 C 1.1" x 1.1" Tie Mounts With Screw	97.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.83	
26 05 29 00-0325 EA 6" Length x 1/2" Width, Velcro Grip Cable Tie	2.47	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.22	
26 05 29 00-0326 EA 8" Length x 1/2" Width, Velcro Grip Cable Tie	2.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.19	
26 05 29 00-0327 EA 12" Length x 1/2" Width, Velcro Grip Cable Tie	2.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.19	
26 05 29 00-0328 EA 15" Length x 3/4" Width, Velcro Grip Cable Tie	4.14	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.19	
26 05 29 00-0329 EA 180" Length x 3/4" Width, Velcro Grip Cable Tie Roll	103.91	
Note: Cut to length.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.39	
26 05 29 00-0330 Fastening Devices For Wireway And Conduit (26 05 29)		
Note: Includes drilling of holes with power tools in concrete, brick, concrete block, wood, tile or steel and alignment of hangers and supports for bolts.		
26 05 29 00-0331 Toggle Bolts (26 05 29 00-0330)		
Note: Includes machine screw, toggle wing and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0332 EA 1/8" Diameter, 3" Length, Zinc Plated Steel, Toggle Bolt	11.26	
For >50 To 100, Deduct	-1.09	
For >100 To 250, Deduct	-2.19	
For >250 To 500, Deduct	-3.82	
For >500, Deduct	-5.46	
26 05 29 00-0333 EA 1/8" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt	11.56	
For >50 To 100, Deduct	-1.12	
For >100 To 250, Deduct	-2.24	
For >250 To 500, Deduct	-3.92	
For >500, Deduct	-5.60	
26 05 29 00-0334 EA 3/16" Diameter, 3" Length, Zinc Plated Steel, Toggle Bolt	12.06	
For >50 To 100, Deduct	-1.15	
For >100 To 250, Deduct	-2.31	
For >250 To 500, Deduct	-4.03	
For >500, Deduct	-5.75	
26 05 29 00-0335 EA 3/16" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt	12.36	
For >50 To 100, Deduct	-1.18	
For >100 To 250, Deduct	-2.36	
For >250 To 500, Deduct	-4.13	
For >500, Deduct	-5.89	
26 05 29 00-0336 EA 1/4" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt	12.65	
For >50 To 100, Deduct	-1.21	
For >100 To 250, Deduct	-2.42	
For >250 To 500, Deduct	-4.23	
For >500, Deduct	-6.03	
26 05 29 00-0337 EA 5/16" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt	13.85	
For >50 To 100, Deduct	-1.26	
For >100 To 250, Deduct	-2.52	
For >250 To 500, Deduct	-4.39	
For >500, Deduct	-6.27	
26 05 29 00-0338 EA 3/8" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt	14.33	
For >50 To 100, Deduct	-1.29	
For >100 To 250, Deduct	-2.59	
For >250 To 500, Deduct	-4.50	
For >500, Deduct	-6.42	
26 05 29 00-0339 Machine Screws (26 05 29 00-0330)		
Note: Includes drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0340 EA #8 Diameter, 2" Length, Zinc Plated Steel, Machine Screw	3.36	
For >50 To 100, Deduct	-0.33	
For >100 To 250, Deduct	-0.66	
For >250 To 500, Deduct	-1.16	
For >500, Deduct	-1.65	
26 05 29 00-0341 EA #10 Diameter, 2" Length, Zinc Plated Steel, Machine Screw	3.40	
For >50 To 100, Deduct	-0.33	
For >100 To 250, Deduct	-0.66	
For >250 To 500, Deduct	-1.16	
For >500, Deduct	-1.66	
26 05 29 00-0342 EA 1/4" Diameter, 2" Length, Zinc Plated Steel, Machine Screw	4.26	
For >50 To 100, Deduct	-0.42	
For >100 To 250, Deduct	-0.83	
For >250 To 500, Deduct	-1.46	
For >500, Deduct	-2.08	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0343	EA		5/16" Diameter, 2" Length, Zinc Plated Steel, Machine Screw	4.39	
			For >50 To 100, Deduct	-0.42	
			For >100 To 250, Deduct	-0.84	
			For >250 To 500, Deduct	-1.47	
			For >500, Deduct	-2.09	
26 05 29 00-0344	EA		3/8" Diameter, 2" Length, Zinc Plated Steel, Machine Screw	5.35	
			For >50 To 100, Deduct	-0.50	
			For >100 To 250, Deduct	-1.01	
			For >250 To 500, Deduct	-1.76	
			For >500, Deduct	-2.51	
26 05 29 00-0345			Hex Lag Bolts With Lag Shield Expansion Anchors (26 05 29 00-0330)		
			Note: Includes lag bolt, lag shield expansion anchor and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0346	EA		1/4" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	5.03	
			For >50 To 100, Deduct	-0.44	
			For >100 To 250, Deduct	-0.87	
			For >250 To 500, Deduct	-1.51	
			For >500, Deduct	-2.16	
26 05 29 00-0347	EA		5/16" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	4.99	
			For >50 To 100, Deduct	-0.43	
			For >100 To 250, Deduct	-0.87	
			For >250 To 500, Deduct	-1.51	
			For >500, Deduct	-2.15	
26 05 29 00-0348	EA		3/8" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	6.72	
			For >50 To 100, Deduct	-0.54	
			For >100 To 250, Deduct	-1.08	
			For >250 To 500, Deduct	-1.86	
			For >500, Deduct	-2.64	
26 05 29 00-0349	EA		1/2" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor	8.38	
			For >50 To 100, Deduct	-0.64	
			For >100 To 250, Deduct	-1.28	
			For >250 To 500, Deduct	-2.21	
			For >500, Deduct	-3.13	
26 05 29 00-0350			Hanger Lag Bolts With Hex Nuts (26 05 29 00-0330)		
			Note: Includes hanger lag bolt (threaded one side), hex nut and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0351	EA		1/4" Diameter, 2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut	3.83	
			For >50 To 100, Deduct	-0.34	
			For >100 To 250, Deduct	-0.69	
			For >250 To 500, Deduct	-1.19	
			For >500, Deduct	-1.70	
26 05 29 00-0352	EA		5/16" Diameter, 2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut	3.88	
			For >50 To 100, Deduct	-0.34	
			For >100 To 250, Deduct	-0.69	
			For >250 To 500, Deduct	-1.20	
			For >500, Deduct	-1.70	
26 05 29 00-0353	EA		3/8" Diameter, 2-1/2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut	4.51	
			For >50 To 100, Deduct	-0.39	
			For >100 To 250, Deduct	-0.78	
			For >250 To 500, Deduct	-1.35	
			For >500, Deduct	-1.92	
26 05 29 00-0354			Hollow Wall Screw Anchors (26 05 29 00-0330)		
26 05 29 00-0355	EA		6-32 Screw Size, 5/16" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	2.27	
			For >50 To 100, Deduct	-0.20	
			For >100 To 250, Deduct	-0.41	
			For >250 To 500, Deduct	-0.71	
			For >500, Deduct	-1.02	
26 05 29 00-0356	EA		6-32 Screw Size, 5/16" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	2.31	
			For >50 To 100, Deduct	-0.21	
			For >100 To 250, Deduct	-0.41	
			For >250 To 500, Deduct	-0.72	
			For >500, Deduct	-1.02	
26 05 29 00-0357	EA		6-32 Screw Size, 5/16" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	2.39	
			For >50 To 100, Deduct	-0.21	
			For >100 To 250, Deduct	-0.42	
			For >250 To 500, Deduct	-0.72	
			For >500, Deduct	-1.03	
26 05 29 00-0358	EA		10-24 Screw Size, 3/8" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	2.95	
			For >50 To 100, Deduct	-0.25	
			For >100 To 250, Deduct	-0.49	
			For >250 To 500, Deduct	-0.85	
			For >500, Deduct	-1.21	
26 05 29 00-0359	EA		10-24 Screw Size, 3/8" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor	3.05	
			For >50 To 100, Deduct	-0.25	
			For >100 To 250, Deduct	-0.50	
			For >250 To 500, Deduct	-0.86	
			For >500, Deduct	-1.22	

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0360	EA	10-24 Screw Size, 3/8" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	3.09	
		For >50 To 100, Deduct	-0.25	
		For >100 To 250, Deduct	-0.50	
		For >250 To 500, Deduct	-0.86	
		For >500, Deduct	-1.23	
26 05 29 00-0361	EA	1/4-20 Screw Size, 7/16" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	3.11	
		For >50 To 100, Deduct	-0.25	
		For >100 To 250, Deduct	-0.50	
		For >250 To 500, Deduct	-0.86	
		For >500, Deduct	-1.23	
26 05 29 00-0362	EA	1/4-20 Screw Size, 7/16" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	3.25	
		For >50 To 100, Deduct	-0.25	
		For >100 To 250, Deduct	-0.51	
		For >250 To 500, Deduct	-0.87	
		For >500, Deduct	-1.24	
26 05 29 00-0363	EA	1/4-20 Screw Size, 7/16" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	3.31	
		For >50 To 100, Deduct	-0.25	
		For >100 To 250, Deduct	-0.51	
		For >250 To 500, Deduct	-0.88	
		For >500, Deduct	-1.25	
26 05 29 00-0364		Lead Screw Anchors (26 05 29 00-0330) Note: Includes screw.		
26 05 29 00-0365	EA	#6-8 Screw Size, 1/4" Hole Diameter, Lead Screw Anchor With Screw	5.44	
		For >50 To 100, Deduct	-0.51	
		For >100 To 250, Deduct	-1.03	
		For >250 To 500, Deduct	-1.80	
		For >500, Deduct	-2.56	
26 05 29 00-0366	EA	#10-14 Screw Size, 5/16" Hole Diameter, Lead Screw Anchor With Screw	6.41	
		For >50 To 100, Deduct	-0.60	
		For >100 To 250, Deduct	-1.20	
		For >250 To 500, Deduct	-2.09	
		For >500, Deduct	-2.98	
26 05 29 00-0367	EA	#16-18 Screw Size, 5/16" Hole Diameter, Lead Screw Anchor With Screw	8.50	
		For >50 To 100, Deduct	-0.77	
		For >100 To 250, Deduct	-1.54	
		For >250 To 500, Deduct	-2.68	
		For >500, Deduct	-3.82	
26 05 29 00-0368		Acoustical T-Bar Clips (26 05 29 00-0330) Note: For conduit installation above suspended ceilings up to 15' height.		
26 05 29 00-0369	EA	1/2" Conduit, Push-In Acoustical T-Bar Clip	8.81	
		For >50 To 100, Deduct	-0.69	
		For >100 To 250, Deduct	-1.39	
		For >250 To 500, Deduct	-2.40	
		For >500, Deduct	-3.41	
26 05 29 00-0370	EA	3/4" Conduit, Push-In Acoustical T-Bar Clip	9.24	
		For >50 To 100, Deduct	-0.73	
		For >100 To 250, Deduct	-1.46	
		For >250 To 500, Deduct	-2.52	
		For >500, Deduct	-3.58	
26 05 29 00-0371	EA	1" Conduit, Push-In Acoustical T-Bar Clip	10.03	
		For >50 To 100, Deduct	-0.78	
		For >100 To 250, Deduct	-1.55	
		For >250 To 500, Deduct	-2.68	
		For >500, Deduct	-3.81	
26 05 29 00-0372		Threaded Rod, Accessories And Attachments (26 05 29)		
26 05 29 00-0373		Threaded Rod And Rod Accessories (26 05 29 00-0372)		
26 05 29 00-0374		Carbon Steel Threaded Rod (26 05 29 00-0373) Note: Includes plain finish.		
26 05 29 00-0375	LF	3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	3.66	0.93
		For Galvanized, Add	0.72	
		For Zinc Coated, Add	0.51	
26 05 29 00-0376	LF	1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	4.84	0.99
		For Galvanized, Add	1.14	
		For Zinc Coated, Add	0.82	
26 05 29 00-0377	LF	5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	6.48	1.02
		For Galvanized, Add	1.77	
		For Zinc Coated, Add	1.26	
26 05 29 00-0378	LF	3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	10.16	1.05
		For Galvanized, Add	3.22	
		For Zinc Coated, Add	2.29	
26 05 29 00-0379	LF	7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	11.04	1.09
		For Galvanized, Add	3.54	
		For Zinc Coated, Add	2.52	
26 05 29 00-0380	LF	1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod	14.91	1.23
		For Galvanized, Add	4.97	
		For Zinc Coated, Add	3.54	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0381	LF	1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod <i>For Galvanized, Add</i> <i>For Zinc Coated, Add</i>	18.42 6.27 4.47	1.37
26 05 29 00-0382		Threaded Rod Couplings (26 05 29 00-0373)		
26 05 29 00-0383	EA	3/8" Diameter, Threaded Rod Coupling Nut	11.14	
26 05 29 00-0384	EA	1/2" Diameter, Threaded Rod Coupling Nut	12.55	
26 05 29 00-0385	EA	5/8" Diameter, Threaded Rod Coupling Nut	15.15	
26 05 29 00-0386	EA	3/4" Diameter, Threaded Rod Coupling Nut	17.85	
26 05 29 00-0387	EA	7/8" Diameter, Threaded Rod Coupling Nut	24.26	
26 05 29 00-0388	EA	1" Diameter, Threaded Rod Coupling Nut	28.71	
26 05 29 00-0389	EA	1-1/8" Diameter, Threaded Rod Coupling Nut	49.60	
26 05 29 00-0390		Flat Washers (26 05 29 00-0373)		
26 05 29 00-0391	EA	3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer <i>For Galvanized, Add</i>	0.95 0.03	0.37
26 05 29 00-0392	EA	1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer <i>For Galvanized, Add</i>	1.16 0.06	0.37
26 05 29 00-0393	EA	5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer <i>For Galvanized, Add</i>	1.43 0.12	0.37
26 05 29 00-0394	EA	3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer <i>For Galvanized, Add</i>	1.69 0.17	0.74
26 05 29 00-0395	EA	7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer <i>For Galvanized, Add</i>	1.88 0.20	0.74
26 05 29 00-0396	EA	1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer <i>For Galvanized, Add</i>	2.20 0.24	0.74
26 05 29 00-0397	EA	1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer <i>For Galvanized, Add</i>	2.46 0.27	0.74
26 05 29 00-0398		Malleable Iron Eye Sockets (26 05 29 00-0373) Note: Type 16.		
26 05 29 00-0399	EA	3/8" Rod Size, Malleable Iron Eye Socket	13.50	
26 05 29 00-0400	EA	1/2" Rod Size, Malleable Iron Eye Socket	16.13	
26 05 29 00-0401	EA	5/8" Rod Size, Malleable Iron Eye Socket	27.97	
26 05 29 00-0402	EA	3/4" Rod Size, Malleable Iron Eye Socket	39.81	
26 05 29 00-0403	EA	7/8" Rod Size, Malleable Iron Eye Socket	42.42	
26 05 29 00-0404		Hex Nuts (26 05 29 00-0373)		
26 05 29 00-0405	EA	3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut <i>For Galvanized, Add</i>	0.93 0.02	0.37
26 05 29 00-0406	EA	1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut <i>For Galvanized, Add</i>	1.12 0.05	0.37
26 05 29 00-0407	EA	5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut <i>For Galvanized, Add</i>	1.43 0.12	0.37
26 05 29 00-0408	EA	3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut <i>For Galvanized, Add</i>	1.65 0.16	0.74
26 05 29 00-0409	EA	7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut <i>For Galvanized, Add</i>	2.26 0.29	0.74
26 05 29 00-0410	EA	1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut <i>For Galvanized, Add</i>	2.81 0.40	0.74
26 05 29 00-0411	EA	1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut <i>For Galvanized, Add</i>	4.36 0.75	0.74
26 05 29 00-0412		Forged Steel Turnbuckles (26 05 29 00-0373) Note: Type 13.		
26 05 29 00-0413	EA	3/8" Thread Diameter, Forged Steel Turnbuckle Body	33.26	
26 05 29 00-0414	EA	1/2" Thread Diameter, Forged Steel Turnbuckle Body	40.95	
26 05 29 00-0415	EA	5/8" Thread Diameter, Forged Steel Turnbuckle Body	54.60	
26 05 29 00-0416	EA	3/4" Thread Diameter, Forged Steel Turnbuckle Body	67.43	
26 05 29 00-0417	EA	7/8" Thread Diameter, Forged Steel Turnbuckle Body	164.03	
26 05 29 00-0418	EA	1" Thread Diameter, Forged Steel Turnbuckle Body	110.11	
26 05 29 00-0419	EA	1-1/4" Thread Diameter, Forged Steel Turnbuckle Body	219.79	
26 05 29 00-0420		Attachments (26 05 29 00-0372)		
26 05 29 00-0421		Welded Beam Attachments (26 05 29 00-0420) Note: Type 22.		
26 05 29 00-0422	EA	3/8" Rod Size, Welded Beam Attachment	61.25	14.83
26 05 29 00-0423	EA	1/2" Rod Size, Welded Beam Attachment	65.29	15.57
26 05 29 00-0424	EA	5/8" Rod Size, Welded Beam Attachment	69.47	16.46
26 05 29 00-0425	EA	3/4" Rod Size, Welded Beam Attachment	87.79	17.49
26 05 29 00-0426	EA	7/8" Rod Size, Welded Beam Attachment	104.77	18.53
26 05 29 00-0427	EA	1" Rod Size, Welded Beam Attachment	145.73	21.20
26 05 29 00-0428	EA	1-1/8" Rod Size, Welded Beam Attachment	204.53	22.24

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0429	C-Clamp Style Beam Clamps (26 05 29 00-0420) Note: Type 23. Top or bottom flange mount.			
26 05 29 00-0430	EA	3/8" Rod Size, C-Clamp Style Beam Clamp	22.43	11.14
26 05 29 00-0431	EA	1/2" Rod Size, C-Clamp Style Beam Clamp	26.48	11.88
26 05 29 00-0432	EA	5/8" Rod Size, C-Clamp Style Beam Clamp	29.91	12.72
26 05 29 00-0433	EA	3/4" Rod Size, C-Clamp Style Beam Clamp	37.93	13.70
26 05 29 00-0434	EA	7/8" Rod Size, C-Clamp Style Beam Clamp	54.06	14.85
26 05 29 00-0435	Bottom Mount I-Beam Clamps (26 05 29 00-0420) Note: Type 21. For attaching threaded rod centered under beam flanges.			
26 05 29 00-0436	EA	3/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	58.67	14.85
26 05 29 00-0437	EA	1/2" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	85.12	16.19
26 05 29 00-0438	EA	5/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	120.60	17.82
26 05 29 00-0439	EA	3/4" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	144.04	19.79
26 05 29 00-0440	EA	1" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp	343.76	22.27
26 05 29 00-0441	Steel U-Bolts (26 05 29 00-0420) Note: Type 24. Includes plate and nuts.			
26 05 29 00-0442	EA	1/2" Pipe Size, Zinc Plated Steel, U-Bolt	18.25	8.91
26 05 29 00-0443	EA	3/4" Pipe Size, Zinc Plated Steel, U-Bolt	19.74	9.38
26 05 29 00-0444	EA	1" Pipe Size, Zinc Plated Steel, U-Bolt	21.20	9.89
26 05 29 00-0445	EA	1-1/4" Pipe Size, Zinc Plated Steel, U-Bolt	23.95	10.48
26 05 29 00-0446	EA	1-1/2" Pipe Size, Zinc Plated Steel, U-Bolt	24.81	11.14
26 05 29 00-0447	EA	2" Pipe Size, Zinc Plated Steel, U-Bolt	26.53	11.88
26 05 29 00-0448	EA	2-1/2" Pipe Size, Zinc Plated Steel, U-Bolt	37.37	12.72
26 05 29 00-0449	EA	3" Pipe Size, Zinc Plated Steel, U-Bolt	41.13	13.70
26 05 29 00-0450	EA	4" Pipe Size, Zinc Plated Steel, U-Bolt	49.35	14.85
26 05 29 00-0451	Stainless Steel Threaded Rod (26 05 29 00-0372)			
26 05 29 00-0452	LF	1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod	4.38	0.74
		For 316 Stainless Steel, Add	1.17	
26 05 29 00-0453	LF	5/16" Diameter, 304/18-8 Stainless Steel Threaded Rod	6.60	0.81
		For 316 Stainless Steel, Add	2.01	
26 05 29 00-0454	LF	3/8" Diameter, 304/18-8 Stainless Steel Threaded Rod	8.48	0.93
		For 316 Stainless Steel, Add	2.68	
26 05 29 00-0455	LF	7/16" Diameter, 304/18-8 Stainless Steel Threaded Rod	11.76	0.95
		For 316 Stainless Steel, Add	3.99	
26 05 29 00-0456	LF	1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod	14.10	0.99
		For 316 Stainless Steel, Add	4.91	
26 05 29 00-0457	LF	5/8" Diameter, 304/18-8 Stainless Steel Threaded Rod	21.12	1.00
		For 316 Stainless Steel, Add	7.74	
26 05 29 00-0458	LF	3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod	29.54	1.02
		For 316 Stainless Steel, Add	11.13	
26 05 29 00-0459	LF	7/8" Diameter, 304/18-8 Stainless Steel Threaded Rod	40.64	1.05
		For 316 Stainless Steel, Add	15.60	
26 05 29 00-0460	LF	1" Diameter, 304/18-8 Stainless Steel Threaded Rod	52.22	1.23
		For 316 Stainless Steel, Add	20.14	
26 05 29 00-0461	LF	1-1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod	110.48	1.48
		For 316 Stainless Steel, Add	43.49	
26 05 29 00-0462	Polyvinyl Chloride (PVC) Coated Supports (26 05 29) Note: Includes stainless steel and/or Polyvinyl Chloride (PVC) coated hardware.			
26 05 29 00-0463	Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0462)			
26 05 29 00-0464	Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0463)			
26 05 29 00-0465	EA	1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	75.92	29.65
26 05 29 00-0466	EA	3/4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	82.53	32.32
26 05 29 00-0467	EA	1", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	88.26	35.57
26 05 29 00-0468	EA	1-1/4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	105.26	39.58
26 05 29 00-0469	EA	1-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	121.37	44.47
26 05 29 00-0470	EA	2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	144.34	48.92
26 05 29 00-0471	EA	2-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	157.82	53.37
26 05 29 00-0472	EA	3", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	173.62	57.81
26 05 29 00-0473	EA	3-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	183.59	62.26
26 05 29 00-0474	EA	4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp	198.32	66.71
26 05 29 00-0475	Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0463)			
26 05 29 00-0476	EA	1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	81.04	29.65
26 05 29 00-0477	EA	3/4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	86.00	32.32
26 05 29 00-0478	EA	1", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	98.65	35.57
26 05 29 00-0479	EA	1-1/4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	108.95	39.58
26 05 29 00-0480	EA	1-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	122.79	44.47
26 05 29 00-0481	EA	2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	141.90	48.92
26 05 29 00-0482	EA	2-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	162.44	53.37
26 05 29 00-0483	EA	3", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	179.74	57.81
26 05 29 00-0484	EA	3-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	191.30	62.26



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0485 EA 4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp	199.35	66.71
26 05 29 00-0486 Edge, Polyvinyl Chloride (PVC) Coated Beam Clamps (26 05 29 00-0463)		
26 05 29 00-0487 EA 1/2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	76.80	29.35
26 05 29 00-0488 EA 3/4", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	82.68	32.02
26 05 29 00-0489 EA 1", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	93.48	35.57
26 05 29 00-0490 EA 1-1/4", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	109.15	39.14
26 05 29 00-0491 EA 1-1/2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	140.93	44.47
26 05 29 00-0492 EA 2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp	154.55	48.92
26 05 29 00-0493 Polyvinyl Chloride (PVC) Coated Conduit Straps (26 05 29 00-0462)		
26 05 29 00-0494 One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Straps (26 05 29 00-0493)		
26 05 29 00-0495 EA 1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	8.76	0.89
26 05 29 00-0496 EA 3/4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	9.50	0.89
26 05 29 00-0497 EA 1", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	13.88	0.89
26 05 29 00-0498 EA 1-1/4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	16.83	0.89
26 05 29 00-0499 EA 1-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	22.10	0.89
26 05 29 00-0500 EA 2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	33.10	0.89
26 05 29 00-0501 EA 2-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	44.03	0.89
26 05 29 00-0502 EA 3", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	58.91	0.89
26 05 29 00-0503 EA 3-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	104.12	0.89
26 05 29 00-0504 EA 4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	110.64	0.89
26 05 29 00-0505 Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Straps (26 05 29 00-0493)		
26 05 29 00-0506 EA 1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	17.29	1.78
26 05 29 00-0507 EA 3/4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	17.37	1.78
26 05 29 00-0508 EA 1", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	17.81	1.78
26 05 29 00-0509 EA 1-1/4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	22.31	1.78
26 05 29 00-0510 EA 1-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	22.93	1.78
26 05 29 00-0511 EA 2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	26.25	1.78
26 05 29 00-0512 EA 2-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	29.47	1.78
26 05 29 00-0513 EA 3", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	30.80	1.78
26 05 29 00-0514 EA 3-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	32.87	1.78
26 05 29 00-0515 EA 4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap	35.62	1.78
26 05 29 00-0516 Polyvinyl Chloride (PVC) Coated Clamp Back Spacer (26 05 29 00-0462)		
26 05 29 00-0517 Polyvinyl Chloride (PVC) Coated Clamp Back Spacer (26 05 29 00-0516)		
26 05 29 00-0518 EA 1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	15.72	1.78
26 05 29 00-0519 EA 3/4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	18.23	1.78
26 05 29 00-0520 EA 1" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	22.83	1.78
26 05 29 00-0521 EA 1-1/4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	26.64	1.78
26 05 29 00-0522 EA 1-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	35.55	1.78
26 05 29 00-0523 EA 2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	51.01	1.78
26 05 29 00-0524 EA 2-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	86.78	1.78
26 05 29 00-0525 EA 3" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	118.38	1.78
26 05 29 00-0526 EA 3-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	206.94	1.78
26 05 29 00-0527 EA 4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer	206.94	1.78
26 05 29 00-0528 Polyvinyl Chloride (PVC) Coated Threaded Rod And Accessories (26 05 29 00-0462)		
26 05 29 00-0529 Polyvinyl Chloride (PVC) Coated Threaded Rod (26 05 29 00-0528)		
26 05 29 00-0530 LF 3/8" Diameter, Polyvinyl Chloride (PVC) Coated Threaded Rod	10.82	1.18
26 05 29 00-0531 LF 1/2" Diameter, Polyvinyl Chloride (PVC) Coated Threaded Rod	13.29	1.33
26 05 29 00-0532 Attachments (26 05 29 00-0462)		
26 05 29 00-0533 Polyvinyl Chloride (PVC) Coated U-Bolts And Encapsulation Nuts (26 05 29 00-0532)		
26 05 29 00-0534 EA 1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	22.43	8.91
26 05 29 00-0535 EA 3/4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	23.21	9.35
26 05 29 00-0536 EA 1" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	24.44	9.94
26 05 29 00-0537 EA 1-1/4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	26.00	10.54
26 05 29 00-0538 EA 1-1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	27.69	11.14
26 05 29 00-0539 EA 2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	30.99	11.88
26 05 29 00-0540 EA 2-1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	43.82	12.77
26 05 29 00-0541 EA 3" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	46.04	13.65
26 05 29 00-0542 EA 4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	49.13	14.85
26 05 29 00-0543 EA 5" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	78.64	16.92
26 05 29 00-0544 EA 6" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts	97.19	19.59
26 05 29 00-0545 Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamps (26 05 29 00-0532)		
26 05 29 00-0546 EA 1/4", 20 Hole, 15/16" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp	77.56	29.35
26 05 29 00-0547 EA 5/16", 18 Hole, 7/8" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp	89.74	29.35

26 Electrical**26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0548 EA 3/8", 16 Hole, 1" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp	94.76	29.35
26 05 29 00-0549 EA 1/2", 13 Hole, 1" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp	104.29	31.13
26 05 29 00-0550 EA 1/2", 13 Hole, 2-1/8" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp	121.95	35.57
26 05 29 00-0551 Polyvinyl Chloride (PVC) Coated Pipe Straps (26 05 29 00-0532)		
Note: Includes stainless steel nuts and bolts.		
26 05 29 00-0552 EA 1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap	25.94	9.79
26 05 29 00-0553 EA 3/4" Polyvinyl Chloride (PVC) Coated Pipe Strap	27.44	10.67
26 05 29 00-0554 EA 1" Polyvinyl Chloride (PVC) Coated Pipe Strap	29.87	11.56
26 05 29 00-0555 EA 1-1/4" Polyvinyl Chloride (PVC) Coated Pipe Strap	33.76	13.34
26 05 29 00-0556 EA 1-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap	38.58	15.12
26 05 29 00-0557 EA 2" Polyvinyl Chloride (PVC) Coated Pipe Strap	42.55	16.01
26 05 29 00-0558 EA 2-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap	47.05	17.79
26 05 29 00-0559 EA 3" Polyvinyl Chloride (PVC) Coated Pipe Strap	55.28	19.57
26 05 29 00-0560 EA 3-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap	60.04	20.46
26 05 29 00-0561 EA 4" Polyvinyl Chloride (PVC) Coated Pipe Strap	63.40	22.24
26 05 29 00-0562 EA 5" Polyvinyl Chloride (PVC) Coated Pipe Strap	68.24	24.90
26 05 29 00-0563 Polyvinyl Chloride (PVC) Coated Channel (26 05 29 00-0462)		
26 05 29 00-0564 LF A12, Polyvinyl Chloride (PVC) Coated Channel	24.43	4.45
26 05 29 00-0565 LF A12A, Polyvinyl Chloride (PVC) Coated Channel	42.54	6.23
26 05 29 00-0566 LF A12P, Polyvinyl Chloride (PVC) Coated Channel	25.95	4.45
26 05 29 00-0567 LF C14, Polyvinyl Chloride (PVC) Coated Channel	19.74	4.45
26 05 29 00-0568 LF C14P, Polyvinyl Chloride (PVC) Coated Channel	20.68	4.45
26 05 29 00-0569 Polymer Concrete Pads (26 05 29)		
Note: Excludes excavation and backfill.		
26 05 29 00-0570 Polymer Concrete, Box Pads (26 05 29 00-0569)		
26 05 29 00-0571 EA 24" x 36", 18" Depth, Polymer Concrete, Box Pad	1,319.32	120.50
26 05 29 00-0572 EA 25" x 25", 24" Depth, Polymer Concrete, Box Pad	1,363.88	120.50
26 05 29 00-0573 EA 40" x 44", 15" Depth, Polymer Concrete, Box Pad	1,773.33	120.50
26 05 29 00-0574 EA 40" x 44", 24" Depth, Polymer Concrete, Box Pad	1,841.22	120.50
26 05 29 00-0575 EA 52" x 36", 18" Depth, Polymer Concrete, Box Pad	1,710.14	120.50
26 05 29 00-0576 EA 44" x 44", 32" Depth, Polymer Concrete, Box Pad	2,030.74	120.50
26 05 29 00-0577 EA 40" x 58", 24" Depth, Polymer Concrete, Box Pad	2,276.56	120.50
26 05 29 00-0578 EA 52" x 50", 18" Depth, Polymer Concrete, Box Pad	2,176.04	150.62
26 05 29 00-0579 EA 74" x 76", 36" Depth, Polymer Concrete, Box Pad	3,324.64	150.62
26 05 29 00-0580 EA 93" x 93", 36" Depth, Polymer Concrete, Box Pad	4,478.92	150.62
26 05 29 00-0581 Polymer Concrete, Telecommunications Equipment Pads (26 05 29 00-0569)		
26 05 29 00-0582 EA 42" x 42", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad	632.67	64.29
26 05 29 00-0583 EA 48" x 46", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad	754.39	64.29
26 05 29 00-0584 EA 60" x 42", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad	978.71	90.37
26 05 29 00-0585 EA 54" x 48", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad	1,023.95	90.37
26 05 29 00-0586 EA 57" x 60", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad	1,484.47	90.37
26 05 29 00-0587 EA 72" x 60", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad	1,548.47	90.37
26 05 29 00-0588 EA 64" x 72", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad	1,667.73	90.37
26 05 29 00-0589 EA 72" x 64", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad	1,667.73	90.37
26 05 29 00-0590 EA 76" x 84", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad	3,166.03	90.37
26 05 29 00-0591 EA 96" x 84", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad	3,593.55	90.37
26 05 29 00-0592 Polymer Concrete, Electrical Equipment Pads (26 05 29 00-0569)		
26 05 29 00-0593 EA 24" x 25", 2" Thick, Polymer Concrete, Electrical Equipment Pad	374.87	64.29
26 05 29 00-0594 EA 24" x 36", 2" Thick, Polymer Concrete, Electrical Equipment Pad	406.16	64.29
26 05 29 00-0595 EA 24" x 44", 2" Thick, Polymer Concrete, Electrical Equipment Pad	434.66	64.29
26 05 29 00-0596 EA 24" x 58", 2" Thick, Polymer Concrete, Electrical Equipment Pad	529.35	64.29
26 05 29 00-0597 EA 40" x 40", 3" Thick, Polymer Concrete, Electrical Equipment Pad	487.09	64.29
26 05 29 00-0598 EA 42" x 42", 3" Thick, Polymer Concrete, Electrical Equipment Pad	507.00	64.29
26 05 29 00-0599 EA 48" x 42", 4" Thick, Polymer Concrete, Electrical Equipment Pad	558.62	64.29
26 05 29 00-0600 EA 48" x 46", 3" Thick, Polymer Concrete, Electrical Equipment Pad	588.73	64.29
26 05 29 00-0601 EA 54" x 48", 4" Thick, Polymer Concrete, Electrical Equipment Pad	689.29	64.29
26 05 29 00-0602 EA 56" x 44", 3" Thick, Polymer Concrete, Electrical Equipment Pad	854.93	64.29
26 05 29 00-0603 EA 64" x 64", 4" Thick, Polymer Concrete, Electrical Equipment Pad	1,262.60	90.37
26 05 29 00-0604 EA 66" x 72", 4" Thick, Polymer Concrete, Electrical Equipment Pad	1,323.15	90.37
26 05 29 00-0605 EA 75" x 52", 4" Thick, Polymer Concrete, Electrical Equipment Pad	1,342.24	90.37
26 05 29 00-0606 EA 90" x 48", 4" Thick, Polymer Concrete, Electrical Equipment Pad	1,469.51	90.37
26 05 29 00-0607 EA 84" x 96", 4" Thick, Polymer Concrete, Electrical Equipment Pad	3,171.78	90.37
26 05 29 00-0608 EA 96" x 80", 4" Thick, Polymer Concrete, Electrical Equipment Pad	3,741.96	90.37

26 05 33 Raceway and Boxes for Electrical Systems (26 05)**26 05 33 13 Conduit for Electrical Systems (26 05 33)**



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0001		Conduit Assemblies With Wire (26 05 33 13) Note: Includes conduit, fittings and wire. Excludes hangers or supports.		
26 05 33 13-0002		Electrical Metallic Tubing (EMT) Conduit Assemblies (26 05 33 13-0001) Note: Includes conduit, field bends, set screw connectors, set screw couplings, straps, and copper wire as indicated. Per CLF. See CSI section 26 05 19 16-0250 for larger copper conductor, 26 05 33 13-0598 for larger EMT conduit.		
26 05 33 13-0003	CLF	1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	1,104.42 283.80 1.97	331.05
26 05 33 13-0004	CLF	1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	1,205.37 308.18 2.95	359.49
26 05 33 13-0005	CLF	1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #12 THWN Conductor Instead Of THHN, Add</i>	1,306.32 332.56 3.94	387.94
26 05 33 13-0006	CLF	1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	1,164.83 295.99 2.95	345.27
26 05 33 13-0007	CLF	1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	1,289.20 324.44 4.42	378.46
26 05 33 13-0008	CLF	1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #8 THWN Conductor Instead Of THHN, Add</i>	1,299.77 320.37 5.14	373.72
26 05 33 13-0009	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	1,231.27 305.91 1.97	356.92
26 05 33 13-0010	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	1,332.21 330.29 2.95	385.36
26 05 33 13-0011	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	1,433.15 354.67	413.81
26 05 33 13-0012	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #12 THWN Conductor Instead Of THHN, Add</i>	1,534.09 379.05 4.92	442.25
26 05 33 13-0013	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	1,291.67 318.10 2.95	371.14
26 05 33 13-0014	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	1,416.05 346.54 4.42	404.32
26 05 33 13-0015	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	1,540.42 374.99 5.90	437.51

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0016	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #10 THWN Conductor Instead Of THHN, Add</i>	1,664.79 403.43 7.37	470.70
26 05 33 13-0017	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>	1,599.95 379.05 7.72	442.25
26 05 33 13-0018	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #8 THWN Conductor Instead Of THHN, Add</i>	1,773.31 415.62 10.29	484.92
26 05 33 13-0019	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #6 THWN Conductor Instead Of THHN, Add</i>	1,596.99 366.86 8.51	428.03
26 05 33 13-0020	CLF	3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #6 THWN Conductor Instead Of THHN, Add</i>	1,831.05 411.56 12.76	480.18
26 05 33 13-0021	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	1,408.91 329.31 1.97	384.14
26 05 33 13-0022	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	1,509.87 353.69 2.95	412.59
26 05 33 13-0023	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #12 THWN Conductor Instead Of THHN, Add</i>	1,610.81 378.08	441.04
26 05 33 13-0024	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #12 THWN Conductor Instead Of THHN, Add</i>	1,711.76 402.46 4.92	469.47
26 05 33 13-0025	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	1,469.32 341.50 2.95	398.37
26 05 33 13-0026	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	1,593.70 369.95 4.42	431.55
26 05 33 13-0027	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	1,718.07 398.39 5.90	464.73
26 05 33 13-0028	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #10 THWN Conductor Instead Of THHN, Add</i>	1,842.44 426.83 7.37	497.92
26 05 33 13-0029	CLF	1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>	1,777.61 402.46 7.72	469.47



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0030	CLF		1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #6 THWN Conductor Instead Of THHN, Add</i>	2,008.71 434.96 12.76	507.40
26 05 33 13-0031	CLF		1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #6 THWN Conductor Instead Of THHN, Add</i>	2,242.77 479.66 17.01	559.55
26 05 33 13-0032			Rigid Galvanized Steel (RGS) Conduit Assemblies (26 05 33 13-0001) Note: Includes conduit, field bends, terminations, straps, and copper wire as indicated. Per CLF. See CSI section 26 05 19 16-0250 for larger copper conductor, 26 05 33 13-0059 for larger RGS conduit.		
26 05 33 13-0033	CLF		1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	1,458.43 322.97 1.97	376.83
26 05 33 13-0034	CLF		1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	1,559.37 347.35 2.95	405.27
26 05 33 13-0035	CLF		1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	1,518.83 335.16 2.95	391.05
26 05 33 13-0036	CLF		1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	1,643.21 363.61 4.42	424.24
26 05 33 13-0037	CLF		1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #8 THWN Conductor Instead Of THHN, Add</i>	1,653.76 359.54 5.14	419.49
26 05 33 13-0038	CLF		3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	1,605.54 344.43 1.97	401.88
26 05 33 13-0039	CLF		3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	1,706.48 368.81 2.95	430.33
26 05 33 13-0040	CLF		3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #12 THWN Conductor Instead Of THHN, Add</i>	1,807.43 393.19 2.95	458.77
26 05 33 13-0041	CLF		3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	1,665.95 356.62 2.95	416.10
26 05 33 13-0042	CLF		3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	1,790.31 385.06 4.42	449.29
26 05 33 13-0043	CLF		3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	1,914.69 413.51 5.90	482.48
26 05 33 13-0044	CLF		3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>	1,974.23 417.57 7.72	487.22
26 05 33 13-0045	CLF		3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #8 THWN Conductor Instead Of THHN, Add</i>	2,147.58 454.14 10.29	529.89
26 05 33 13-0046	CLF		3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #6 THWN Conductor Instead Of THHN, Add</i>	1,971.27 405.38 8.51	473.00

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0047 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #6 THWN Conductor Instead Of THHN, Add</i>	2,205.32 450.08 12.76	525.15
26 05 33 13-0048 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	2,066.23 411.35 2.95	479.91
26 05 33 13-0049 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	2,167.19 435.74	508.36
26 05 33 13-0050 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #12 THWN Conductor Instead Of THHN, Add</i>	2,268.12 460.12 4.92	536.79
26 05 33 13-0051 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	2,150.06 427.61 4.42	498.87
26 05 33 13-0052 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	2,274.44 456.05 5.90	532.05
26 05 33 13-0053 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #10 THWN Conductor Instead Of THHN, Add</i>	2,398.81 484.50 7.37	565.24
26 05 33 13-0054 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>	2,333.97 460.12 7.72	536.79
26 05 33 13-0055 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #6 THWN Conductor Instead Of THHN, Add</i>	2,565.08 492.63 12.76	574.72
26 05 33 13-0056 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #6 THWN Conductor Instead Of THHN, Add</i>	2,799.13 537.32 17.01	626.87
26 05 33 13-0057 Conduit ^(26 05 33 13) Note: Where 4-1/2" conduit is required, use tasks for 5" conduit. Add couplings as required at each fitting.		
26 05 33 13-0058 Conduit Installed Above Grade ^(26 05 33 13-0057)		
26 05 33 13-0059 Rigid Galvanized Steel (RGS) Or Galvanized Rigid Steel Conduit (GRC) Conduit ^(26 05 33 13-0058) Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-0060 Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling ^(26 05 33 13-0059) Note: Includes field bending for conduit up to 1".		
26 05 33 13-0061 LF 1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling <i>For >250 To 500, Deduct</i> <i>For >500 To 1,000, Deduct</i> <i>For >1,000, Deduct</i> <i>For Installation In Metal Stud Wall, Add</i> <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i> <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	10.56 -0.16 -0.61 -0.87 0.75 1.86 1.12 2.24 0.75 1.49 1.86 2.61 2.98 3.73 4.10	2.98



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0062	LF	3/4"	Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	12.50	3.25
			For >250 To 500, Deduct	-0.19	
			For >500 To 1,000, Deduct	-0.72	
			For >1,000, Deduct	-1.03	
			For Installation In Metal Stud Wall, Add	0.87	
			For Installation In Wood Stud Wall (Includes Drilling), Add	2.17	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.30	
			For Work In Restricted Working Space, Add	2.60	
			For Elevated Installation >10' To 15', Add	0.87	
			For Elevated Installation >15' To 20', Add	1.73	
			For Elevated Installation >20' To 25', Add	2.17	
			For Elevated Installation >25' To 30', Add	3.03	
			For Elevated Installation >30' To 35', Add	3.47	
			For Elevated Installation >35' To 40', Add	4.34	
			For Elevated Installation >40', Add	4.77	
26 05 33 13-0063	LF	1"	Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	17.57	3.79
			For >250 To 500, Deduct	-0.30	
			For >500 To 1,000, Deduct	-1.03	
			For >1,000, Deduct	-1.47	
			For Installation In Metal Stud Wall, Add	1.16	
			For Installation In Wood Stud Wall (Includes Drilling), Add	2.91	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.75	
			For Work In Restricted Working Space, Add	3.49	
			For Elevated Installation >10' To 15', Add	1.16	
			For Elevated Installation >15' To 20', Add	2.33	
			For Elevated Installation >20' To 25', Add	2.91	
			For Elevated Installation >25' To 30', Add	4.07	
			For Elevated Installation >30' To 35', Add	4.66	
			For Elevated Installation >35' To 40', Add	5.82	
			For Elevated Installation >40', Add	6.40	
26 05 33 13-0064	LF	1-1/4"	Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	20.24	4.34
			For >250 To 500, Deduct	-0.40	
			For >500 To 1,000, Deduct	-1.21	
			For >1,000, Deduct	-1.72	
			For Installation In Metal Stud Wall, Add	1.23	
			For Installation In Wood Stud Wall (Includes Drilling), Add	3.08	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.85	
			For Work In Restricted Working Space, Add	3.70	
			For Elevated Installation >10' To 15', Add	1.23	
			For Elevated Installation >15' To 20', Add	2.47	
			For Elevated Installation >20' To 25', Add	3.08	
			For Elevated Installation >25' To 30', Add	4.32	
			For Elevated Installation >30' To 35', Add	4.93	
			For Elevated Installation >35' To 40', Add	6.17	
			For Elevated Installation >40', Add	6.78	
26 05 33 13-0065	LF	1-1/2"	Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	23.23	4.88
			For >250 To 500, Deduct	-0.48	
			For >500 To 1,000, Deduct	-1.40	
			For >1,000, Deduct	-1.98	
			For Installation In Metal Stud Wall, Add	1.36	
			For Installation In Wood Stud Wall (Includes Drilling), Add	3.39	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.03	
			For Work In Restricted Working Space, Add	4.07	
			For Elevated Installation >10' To 15', Add	1.36	
			For Elevated Installation >15' To 20', Add	2.71	
			For Elevated Installation >20' To 25', Add	3.39	
			For Elevated Installation >25' To 30', Add	4.74	
			For Elevated Installation >30' To 35', Add	5.42	
			For Elevated Installation >35' To 40', Add	6.78	
			For Elevated Installation >40', Add	7.45	
26 05 33 13-0066	LF	2"	Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	29.61	5.96
			For >250 To 500, Deduct	-0.65	
			For >500 To 1,000, Deduct	-1.80	
			For >1,000, Deduct	-2.54	
			For Installation In Metal Stud Wall, Add	1.67	
			For Installation In Wood Stud Wall (Includes Drilling), Add	4.17	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.50	
			For Work In Restricted Working Space, Add	5.00	
			For Elevated Installation >10' To 15', Add	1.67	
			For Elevated Installation >15' To 20', Add	3.33	
			For Elevated Installation >20' To 25', Add	4.17	
			For Elevated Installation >25' To 30', Add	5.83	
			For Elevated Installation >30' To 35', Add	6.66	
			For Elevated Installation >35' To 40', Add	8.33	
			For Elevated Installation >40', Add	9.16	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0067 LF 2-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	44.08	8.13
For >250 To 500, Deduct	-1.07	
For >500 To 1,000, Deduct	-2.74	
For >1,000, Deduct	-3.84	
For Installation In Metal Stud Wall, Add	2.26	
For Installation In Wood Stud Wall (Includes Drilling), Add	5.66	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	3.39	
For Work In Restricted Working Space, Add	6.79	
For Elevated Installation >10' To 15', Add	2.26	
For Elevated Installation >15' To 20', Add	4.52	
For Elevated Installation >20' To 25', Add	5.66	
For Elevated Installation >25' To 30', Add	7.92	
For Elevated Installation >30' To 35', Add	9.05	
For Elevated Installation >35' To 40', Add	11.31	
For Elevated Installation >40', Add	12.44	
26 05 33 13-0068 LF 3" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	57.78	10.83
For >250 To 500, Deduct	-1.37	
For >500 To 1,000, Deduct	-3.57	
For >1,000, Deduct	-5.02	
For Installation In Metal Stud Wall, Add	3.05	
For Installation In Wood Stud Wall (Includes Drilling), Add	7.62	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	4.57	
For Work In Restricted Working Space, Add	9.14	
For Elevated Installation >10' To 15', Add	3.05	
For Elevated Installation >15' To 20', Add	6.09	
For Elevated Installation >20' To 25', Add	7.62	
For Elevated Installation >25' To 30', Add	10.66	
For Elevated Installation >30' To 35', Add	12.19	
For Elevated Installation >35' To 40', Add	15.24	
For Elevated Installation >40', Add	16.76	
26 05 33 13-0069 LF 3-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	69.49	13.55
For >250 To 500, Deduct	-1.67	
For >500 To 1,000, Deduct	-4.31	
For >1,000, Deduct	-6.04	
For Installation In Metal Stud Wall, Add	3.62	
For Installation In Wood Stud Wall (Includes Drilling), Add	9.04	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	5.43	
For Work In Restricted Working Space, Add	10.85	
For Elevated Installation >10' To 15', Add	3.62	
For Elevated Installation >15' To 20', Add	7.23	
For Elevated Installation >20' To 25', Add	9.04	
For Elevated Installation >25' To 30', Add	12.66	
For Elevated Installation >30' To 35', Add	14.47	
For Elevated Installation >35' To 40', Add	18.09	
For Elevated Installation >40', Add	19.89	
26 05 33 13-0070 LF 4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	82.43	16.25
For >250 To 500, Deduct	-2.04	
For >500 To 1,000, Deduct	-5.14	
For >1,000, Deduct	-7.20	
For Installation In Metal Stud Wall, Add	4.17	
For Installation In Wood Stud Wall (Includes Drilling), Add	10.43	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	6.26	
For Work In Restricted Working Space, Add	12.52	
For Elevated Installation >10' To 15', Add	4.17	
For Elevated Installation >15' To 20', Add	8.34	
For Elevated Installation >20' To 25', Add	10.43	
For Elevated Installation >25' To 30', Add	14.60	
For Elevated Installation >30' To 35', Add	16.69	
For Elevated Installation >35' To 40', Add	20.86	
For Elevated Installation >40', Add	22.95	
26 05 33 13-0071 LF 5" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	130.06	20.59
For >250 To 500, Deduct	-3.93	
For >500 To 1,000, Deduct	-8.47	
For >1,000, Deduct	-11.72	
For Installation In Metal Stud Wall, Add	5.15	
For Installation In Wood Stud Wall (Includes Drilling), Add	12.87	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	7.72	
For Work In Restricted Working Space, Add	15.44	
For Elevated Installation >10' To 15', Add	5.15	
For Elevated Installation >15' To 20', Add	10.29	
For Elevated Installation >20' To 25', Add	12.87	
For Elevated Installation >25' To 30', Add	18.01	
For Elevated Installation >30' To 35', Add	20.59	
For Elevated Installation >35' To 40', Add	25.74	
For Elevated Installation >40', Add	28.31	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0072	LF		6" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling	175.48	26.00
			For >250 To 500, Deduct	-5.52	
			For >500 To 1,000, Deduct	-11.54	
			For >1,000, Deduct	-15.92	
			For Installation In Metal Stud Wall, Add	6.50	
			For Installation In Wood Stud Wall (Includes Drilling), Add	16.26	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	9.75	
			For Work In Restricted Working Space, Add	19.51	
			For Elevated Installation >10' To 15', Add	6.50	
			For Elevated Installation >15' To 20', Add	13.00	
			For Elevated Installation >20' To 25', Add	16.26	
			For Elevated Installation >25' To 30', Add	22.76	
			For Elevated Installation >30' To 35', Add	26.01	
			For Elevated Installation >35' To 40', Add	32.51	
			For Elevated Installation >40', Add	35.76	
26 05 33 13-0073			Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow (26 05 33 13-0059) See CSI section 26 05 33 13-2297 for conduit field bending.		
26 05 33 13-0074	EA		1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	39.13	13.41
			For Work In Restricted Working Space, Add	10.09	
			For Elevated Installation >10' To 15', Add	3.36	
			For Elevated Installation >15' To 20', Add	6.73	
			For Elevated Installation >20' To 25', Add	8.41	
			For Elevated Installation >25' To 30', Add	11.77	
			For Elevated Installation >30' To 35', Add	13.45	
			For Elevated Installation >35' To 40', Add	16.82	
			For Elevated Installation >40', Add	18.50	
26 05 33 13-0075	EA		3/4" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	49.06	16.66
			For Work In Restricted Working Space, Add	12.54	
			For Elevated Installation >10' To 15', Add	4.18	
			For Elevated Installation >15' To 20', Add	8.36	
			For Elevated Installation >20' To 25', Add	10.45	
			For Elevated Installation >25' To 30', Add	14.63	
			For Elevated Installation >30' To 35', Add	16.72	
			For Elevated Installation >35' To 40', Add	20.91	
			For Elevated Installation >40', Add	23.00	
26 05 33 13-0076	EA		1" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	62.15	20.45
			For Work In Restricted Working Space, Add	15.30	
			For Elevated Installation >10' To 15', Add	5.10	
			For Elevated Installation >15' To 20', Add	10.20	
			For Elevated Installation >20' To 25', Add	12.75	
			For Elevated Installation >25' To 30', Add	17.85	
			For Elevated Installation >30' To 35', Add	20.40	
			For Elevated Installation >35' To 40', Add	25.50	
			For Elevated Installation >40', Add	28.04	
26 05 33 13-0077	EA		1-1/4" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	78.30	23.70
			For Work In Restricted Working Space, Add	17.76	
			For Elevated Installation >10' To 15', Add	5.92	
			For Elevated Installation >15' To 20', Add	11.84	
			For Elevated Installation >20' To 25', Add	14.80	
			For Elevated Installation >25' To 30', Add	20.72	
			For Elevated Installation >30' To 35', Add	23.68	
			For Elevated Installation >35' To 40', Add	29.61	
			For Elevated Installation >40', Add	32.57	
26 05 33 13-0078	EA		1-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	90.72	27.23
			For Work In Restricted Working Space, Add	20.39	
			For Elevated Installation >10' To 15', Add	6.80	
			For Elevated Installation >15' To 20', Add	13.59	
			For Elevated Installation >20' To 25', Add	16.99	
			For Elevated Installation >25' To 30', Add	23.79	
			For Elevated Installation >30' To 35', Add	27.18	
			For Elevated Installation >35' To 40', Add	33.98	
			For Elevated Installation >40', Add	37.38	
26 05 33 13-0079	EA		2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	106.05	29.93
			For Work In Restricted Working Space, Add	22.43	
			For Elevated Installation >10' To 15', Add	7.48	
			For Elevated Installation >15' To 20', Add	14.95	
			For Elevated Installation >20' To 25', Add	18.69	
			For Elevated Installation >25' To 30', Add	26.17	
			For Elevated Installation >30' To 35', Add	29.90	
			For Elevated Installation >35' To 40', Add	37.38	
			For Elevated Installation >40', Add	41.12	
26 05 33 13-0080	EA		2-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow	149.21	37.39
			For Work In Restricted Working Space, Add	28.04	
			For Elevated Installation >10' To 15', Add	9.35	
			For Elevated Installation >15' To 20', Add	18.69	
			For Elevated Installation >20' To 25', Add	23.36	
			For Elevated Installation >25' To 30', Add	32.71	
			For Elevated Installation >30' To 35', Add	37.38	
			For Elevated Installation >35' To 40', Add	46.73	
			For Elevated Installation >40', Add	51.40	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0081 EA 3" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow 210.33		50.93
For Work In Restricted Working Space, Add	38.19	
For Elevated Installation >10' To 15', Add	12.73	
For Elevated Installation >15' To 20', Add	25.46	
For Elevated Installation >20' To 25', Add	31.83	
For Elevated Installation >25' To 30', Add	44.56	
For Elevated Installation >30' To 35', Add	50.92	
For Elevated Installation >35' To 40', Add	63.66	
For Elevated Installation >40', Add	70.02	
26 05 33 13-0082 EA 3-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow 273.39		57.43
For Work In Restricted Working Space, Add	43.08	
For Elevated Installation >10' To 15', Add	14.36	
For Elevated Installation >15' To 20', Add	28.72	
For Elevated Installation >20' To 25', Add	35.90	
For Elevated Installation >25' To 30', Add	50.26	
For Elevated Installation >30' To 35', Add	57.44	
For Elevated Installation >35' To 40', Add	71.80	
For Elevated Installation >40', Add	78.98	
26 05 33 13-0083 EA 4" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow 336.46		74.77
For Work In Restricted Working Space, Add	56.07	
For Elevated Installation >10' To 15', Add	18.69	
For Elevated Installation >15' To 20', Add	37.38	
For Elevated Installation >20' To 25', Add	46.72	
For Elevated Installation >25' To 30', Add	65.41	
For Elevated Installation >30' To 35', Add	74.76	
For Elevated Installation >35' To 40', Add	93.45	
For Elevated Installation >40', Add	102.79	
26 05 33 13-0084 EA 5" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow 550.20		121.90
For Work In Restricted Working Space, Add	91.43	
For Elevated Installation >10' To 15', Add	30.48	
For Elevated Installation >15' To 20', Add	60.96	
For Elevated Installation >20' To 25', Add	76.20	
For Elevated Installation >25' To 30', Add	106.67	
For Elevated Installation >30' To 35', Add	121.91	
For Elevated Installation >35' To 40', Add	152.39	
For Elevated Installation >40', Add	167.63	
26 05 33 13-0085 EA 6" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow 827.07		183.13
For Work In Restricted Working Space, Add	137.34	
For Elevated Installation >10' To 15', Add	45.78	
For Elevated Installation >15' To 20', Add	91.56	
For Elevated Installation >20' To 25', Add	114.45	
For Elevated Installation >25' To 30', Add	160.23	
For Elevated Installation >30' To 35', Add	183.12	
For Elevated Installation >35' To 40', Add	228.90	
For Elevated Installation >40', Add	251.78	
26 05 33 13-0086 Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow (26 05 33 13-0059)		
See CSI section 26 05 33 13-2297 for conduit field bending.		
26 05 33 13-0087 EA 1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow 39.13		13.41
For Work In Restricted Working Space, Add	10.09	
For Elevated Installation >10' To 15', Add	3.36	
For Elevated Installation >15' To 20', Add	6.73	
For Elevated Installation >20' To 25', Add	8.41	
For Elevated Installation >25' To 30', Add	11.77	
For Elevated Installation >30' To 35', Add	13.45	
For Elevated Installation >35' To 40', Add	16.82	
For Elevated Installation >40', Add	18.50	
26 05 33 13-0088 EA 3/4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow 49.06		16.66
For Work In Restricted Working Space, Add	12.54	
For Elevated Installation >10' To 15', Add	4.18	
For Elevated Installation >15' To 20', Add	8.36	
For Elevated Installation >20' To 25', Add	10.45	
For Elevated Installation >25' To 30', Add	14.63	
For Elevated Installation >30' To 35', Add	16.72	
For Elevated Installation >35' To 40', Add	20.91	
For Elevated Installation >40', Add	23.00	
26 05 33 13-0089 EA 1" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow 62.15		20.45
For Work In Restricted Working Space, Add	15.30	
For Elevated Installation >10' To 15', Add	5.10	
For Elevated Installation >15' To 20', Add	10.20	
For Elevated Installation >20' To 25', Add	12.75	
For Elevated Installation >25' To 30', Add	17.85	
For Elevated Installation >30' To 35', Add	20.40	
For Elevated Installation >35' To 40', Add	25.50	
For Elevated Installation >40', Add	28.04	
26 05 33 13-0090 EA 1-1/4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow 78.30		23.70
For Work In Restricted Working Space, Add	17.76	
For Elevated Installation >10' To 15', Add	5.92	
For Elevated Installation >15' To 20', Add	11.84	
For Elevated Installation >20' To 25', Add	14.80	
For Elevated Installation >25' To 30', Add	20.72	
For Elevated Installation >30' To 35', Add	23.68	
For Elevated Installation >35' To 40', Add	29.61	
For Elevated Installation >40', Add	32.57	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0091	EA		1-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	90.72	27.23
			For Work In Restricted Working Space, Add	20.39	
			For Elevated Installation >10' To 15', Add	6.80	
			For Elevated Installation >15' To 20', Add	13.59	
			For Elevated Installation >20' To 25', Add	16.99	
			For Elevated Installation >25' To 30', Add	23.79	
			For Elevated Installation >30' To 35', Add	27.18	
			For Elevated Installation >35' To 40', Add	33.98	
			For Elevated Installation >40', Add	37.38	
26 05 33 13-0092	EA		2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	106.05	29.93
			For Work In Restricted Working Space, Add	22.43	
			For Elevated Installation >10' To 15', Add	7.48	
			For Elevated Installation >15' To 20', Add	14.95	
			For Elevated Installation >20' To 25', Add	18.69	
			For Elevated Installation >25' To 30', Add	26.17	
			For Elevated Installation >30' To 35', Add	29.90	
			For Elevated Installation >35' To 40', Add	37.38	
			For Elevated Installation >40', Add	41.12	
26 05 33 13-0093	EA		2-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	146.95	37.39
			For Work In Restricted Working Space, Add	28.04	
			For Elevated Installation >10' To 15', Add	9.35	
			For Elevated Installation >15' To 20', Add	18.69	
			For Elevated Installation >20' To 25', Add	23.36	
			For Elevated Installation >25' To 30', Add	32.71	
			For Elevated Installation >30' To 35', Add	37.38	
			For Elevated Installation >35' To 40', Add	46.73	
			For Elevated Installation >40', Add	51.40	
26 05 33 13-0094	EA		3" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	201.51	50.93
			For Work In Restricted Working Space, Add	38.19	
			For Elevated Installation >10' To 15', Add	12.73	
			For Elevated Installation >15' To 20', Add	25.46	
			For Elevated Installation >20' To 25', Add	31.83	
			For Elevated Installation >25' To 30', Add	44.56	
			For Elevated Installation >30' To 35', Add	50.92	
			For Elevated Installation >35' To 40', Add	63.66	
			For Elevated Installation >40', Add	70.02	
26 05 33 13-0095	EA		3-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	260.99	57.43
			For Work In Restricted Working Space, Add	43.08	
			For Elevated Installation >10' To 15', Add	14.36	
			For Elevated Installation >15' To 20', Add	28.72	
			For Elevated Installation >20' To 25', Add	35.90	
			For Elevated Installation >25' To 30', Add	50.26	
			For Elevated Installation >30' To 35', Add	57.44	
			For Elevated Installation >35' To 40', Add	71.80	
			For Elevated Installation >40', Add	78.98	
26 05 33 13-0096	EA		4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	319.97	74.77
			For Work In Restricted Working Space, Add	56.07	
			For Elevated Installation >10' To 15', Add	18.69	
			For Elevated Installation >15' To 20', Add	37.38	
			For Elevated Installation >20' To 25', Add	46.72	
			For Elevated Installation >25' To 30', Add	65.41	
			For Elevated Installation >30' To 35', Add	74.76	
			For Elevated Installation >35' To 40', Add	93.45	
			For Elevated Installation >40', Add	102.79	
26 05 33 13-0097	EA		5" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	550.20	121.90
			For Work In Restricted Working Space, Add	91.43	
			For Elevated Installation >10' To 15', Add	30.48	
			For Elevated Installation >15' To 20', Add	60.96	
			For Elevated Installation >20' To 25', Add	76.20	
			For Elevated Installation >25' To 30', Add	106.67	
			For Elevated Installation >30' To 35', Add	121.91	
			For Elevated Installation >35' To 40', Add	152.39	
			For Elevated Installation >40', Add	167.63	
26 05 33 13-0098	EA		6" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow	827.07	183.13
			For Work In Restricted Working Space, Add	137.34	
			For Elevated Installation >10' To 15', Add	45.78	
			For Elevated Installation >15' To 20', Add	91.56	
			For Elevated Installation >20' To 25', Add	114.45	
			For Elevated Installation >25' To 30', Add	160.23	
			For Elevated Installation >30' To 35', Add	183.12	
			For Elevated Installation >35' To 40', Add	228.90	
			For Elevated Installation >40', Add	251.78	
26 05 33 13-0099			Rigid Galvanized Steel (RGS) 12" Large Radius Elbow (26 05 33 13-0059)		
			See CSI section 26 05 33 13-2297 for conduit field bending.		
26 05 33 13-0100	EA		1" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow	93.49	33.46
			For Work In Restricted Working Space, Add	20.07	
			For Elevated Installation >10' To 15', Add	6.69	
			For Elevated Installation >15' To 20', Add	13.38	
			For Elevated Installation >20' To 25', Add	16.73	
			For Elevated Installation >25' To 30', Add	23.42	
			For Elevated Installation >30' To 35', Add	26.76	
			For Elevated Installation >35' To 40', Add	33.46	
			For Elevated Installation >40', Add	36.80	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0101 EA 1-1/4" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	107.82	38.74
For Work In Restricted Working Space, Add	23.24	
For Elevated Installation >10' To 15', Add	7.75	
For Elevated Installation >15' To 20', Add	15.50	
For Elevated Installation >20' To 25', Add	19.37	
For Elevated Installation >25' To 30', Add	27.12	
For Elevated Installation >30' To 35', Add	30.99	
For Elevated Installation >35' To 40', Add	38.74	
For Elevated Installation >40', Add	42.61	
26 05 33 13-0102 EA 1-1/2" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	124.38	44.02
For Work In Restricted Working Space, Add	26.41	
For Elevated Installation >10' To 15', Add	8.80	
For Elevated Installation >15' To 20', Add	17.61	
For Elevated Installation >20' To 25', Add	22.01	
For Elevated Installation >25' To 30', Add	30.81	
For Elevated Installation >30' To 35', Add	35.22	
For Elevated Installation >35' To 40', Add	44.02	
For Elevated Installation >40', Add	48.42	
26 05 33 13-0103 EA 2" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	139.67	48.42
For Work In Restricted Working Space, Add	29.06	
For Elevated Installation >10' To 15', Add	9.69	
For Elevated Installation >15' To 20', Add	19.37	
For Elevated Installation >20' To 25', Add	24.21	
For Elevated Installation >25' To 30', Add	33.90	
For Elevated Installation >30' To 35', Add	38.74	
For Elevated Installation >35' To 40', Add	48.43	
For Elevated Installation >40', Add	53.27	
26 05 33 13-0104 Rigid Galvanized Steel (RGS) 15" Large Radius Elbow (26 05 33 13-0059)		
See CSI section 26 05 33 13-2297 for conduit field bending.		
26 05 33 13-0105 EA 1" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	100.38	33.46
For Work In Restricted Working Space, Add	20.07	
For Elevated Installation >10' To 15', Add	6.69	
For Elevated Installation >15' To 20', Add	13.38	
For Elevated Installation >20' To 25', Add	16.73	
For Elevated Installation >25' To 30', Add	23.42	
For Elevated Installation >30' To 35', Add	26.76	
For Elevated Installation >35' To 40', Add	33.46	
For Elevated Installation >40', Add	36.80	
26 05 33 13-0106 EA 1-1/4" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	116.68	38.74
For Work In Restricted Working Space, Add	23.24	
For Elevated Installation >10' To 15', Add	7.75	
For Elevated Installation >15' To 20', Add	15.50	
For Elevated Installation >20' To 25', Add	19.37	
For Elevated Installation >25' To 30', Add	27.12	
For Elevated Installation >30' To 35', Add	30.99	
For Elevated Installation >35' To 40', Add	38.74	
For Elevated Installation >40', Add	42.61	
26 05 33 13-0107 EA 1-1/2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	128.42	44.02
For Work In Restricted Working Space, Add	26.41	
For Elevated Installation >10' To 15', Add	8.80	
For Elevated Installation >15' To 20', Add	17.61	
For Elevated Installation >20' To 25', Add	22.01	
For Elevated Installation >25' To 30', Add	30.81	
For Elevated Installation >30' To 35', Add	35.22	
For Elevated Installation >35' To 40', Add	44.02	
For Elevated Installation >40', Add	48.42	
26 05 33 13-0108 EA 2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	144.18	48.42
For Work In Restricted Working Space, Add	29.06	
For Elevated Installation >10' To 15', Add	9.69	
For Elevated Installation >15' To 20', Add	19.37	
For Elevated Installation >20' To 25', Add	24.21	
For Elevated Installation >25' To 30', Add	33.90	
For Elevated Installation >30' To 35', Add	38.74	
For Elevated Installation >35' To 40', Add	48.43	
For Elevated Installation >40', Add	53.27	
26 05 33 13-0109 EA 2-1/2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	190.19	60.75
For Work In Restricted Working Space, Add	36.45	
For Elevated Installation >10' To 15', Add	12.15	
For Elevated Installation >15' To 20', Add	24.30	
For Elevated Installation >20' To 25', Add	30.38	
For Elevated Installation >25' To 30', Add	42.53	
For Elevated Installation >30' To 35', Add	48.60	
For Elevated Installation >35' To 40', Add	60.75	
For Elevated Installation >40', Add	66.83	
26 05 33 13-0110 EA 3" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	256.37	82.76
For Work In Restricted Working Space, Add	49.66	
For Elevated Installation >10' To 15', Add	16.55	
For Elevated Installation >15' To 20', Add	33.10	
For Elevated Installation >20' To 25', Add	41.38	
For Elevated Installation >25' To 30', Add	57.93	
For Elevated Installation >30' To 35', Add	66.21	
For Elevated Installation >35' To 40', Add	82.76	
For Elevated Installation >40', Add	91.04	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0111			Rigid Galvanized Steel (RGS) 18" Large Radius Elbow (26 05 33 13-0059) See CSI section 26 05 33 13-2297 for conduit field bending.		
26 05 33 13-0112	EA		1" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	100.71	33.46
			For Work In Restricted Working Space, Add	20.07	
			For Elevated Installation >10' To 15', Add	6.69	
			For Elevated Installation >15' To 20', Add	13.38	
			For Elevated Installation >20' To 25', Add	16.73	
			For Elevated Installation >25' To 30', Add	23.42	
			For Elevated Installation >30' To 35', Add	26.76	
			For Elevated Installation >35' To 40', Add	33.46	
			For Elevated Installation >40', Add	36.80	
26 05 33 13-0113	EA		1-1/4" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	115.80	38.74
			For Work In Restricted Working Space, Add	23.24	
			For Elevated Installation >10' To 15', Add	7.75	
			For Elevated Installation >15' To 20', Add	15.50	
			For Elevated Installation >20' To 25', Add	19.37	
			For Elevated Installation >25' To 30', Add	27.12	
			For Elevated Installation >30' To 35', Add	30.99	
			For Elevated Installation >35' To 40', Add	38.74	
			For Elevated Installation >40', Add	42.61	
26 05 33 13-0114	EA		1-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	132.78	44.02
			For Work In Restricted Working Space, Add	26.41	
			For Elevated Installation >10' To 15', Add	8.80	
			For Elevated Installation >15' To 20', Add	17.61	
			For Elevated Installation >20' To 25', Add	22.01	
			For Elevated Installation >25' To 30', Add	30.81	
			For Elevated Installation >30' To 35', Add	35.22	
			For Elevated Installation >35' To 40', Add	44.02	
			For Elevated Installation >40', Add	48.42	
26 05 33 13-0115	EA		2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	153.94	48.42
			For Work In Restricted Working Space, Add	29.06	
			For Elevated Installation >10' To 15', Add	9.69	
			For Elevated Installation >15' To 20', Add	19.37	
			For Elevated Installation >20' To 25', Add	24.21	
			For Elevated Installation >25' To 30', Add	33.90	
			For Elevated Installation >30' To 35', Add	38.74	
			For Elevated Installation >35' To 40', Add	48.43	
			For Elevated Installation >40', Add	53.27	
26 05 33 13-0116	EA		2-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	199.29	60.75
			For Work In Restricted Working Space, Add	36.45	
			For Elevated Installation >10' To 15', Add	12.15	
			For Elevated Installation >15' To 20', Add	24.30	
			For Elevated Installation >20' To 25', Add	30.38	
			For Elevated Installation >25' To 30', Add	42.53	
			For Elevated Installation >30' To 35', Add	48.60	
			For Elevated Installation >35' To 40', Add	60.75	
			For Elevated Installation >40', Add	66.83	
26 05 33 13-0117	EA		3" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	263.70	82.76
			For Work In Restricted Working Space, Add	49.66	
			For Elevated Installation >10' To 15', Add	16.55	
			For Elevated Installation >15' To 20', Add	33.10	
			For Elevated Installation >20' To 25', Add	41.38	
			For Elevated Installation >25' To 30', Add	57.93	
			For Elevated Installation >30' To 35', Add	66.21	
			For Elevated Installation >35' To 40', Add	82.76	
			For Elevated Installation >40', Add	91.04	
26 05 33 13-0118	EA		3-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	325.44	93.32
			For Work In Restricted Working Space, Add	56.00	
			For Elevated Installation >10' To 15', Add	18.67	
			For Elevated Installation >15' To 20', Add	37.33	
			For Elevated Installation >20' To 25', Add	46.67	
			For Elevated Installation >25' To 30', Add	65.33	
			For Elevated Installation >30' To 35', Add	74.66	
			For Elevated Installation >35' To 40', Add	93.33	
			For Elevated Installation >40', Add	102.66	
26 05 33 13-0119	EA		4" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	398.07	121.50
			For Work In Restricted Working Space, Add	72.90	
			For Elevated Installation >10' To 15', Add	24.30	
			For Elevated Installation >15' To 20', Add	48.60	
			For Elevated Installation >20' To 25', Add	60.75	
			For Elevated Installation >25' To 30', Add	85.05	
			For Elevated Installation >30' To 35', Add	97.20	
			For Elevated Installation >35' To 40', Add	121.50	
			For Elevated Installation >40', Add	133.65	

26 05 33 13-0120 Rigid Galvanized Steel (RGS) 24" Large Radius Elbow (26 05 33 13-0059)
See CSI section 26 05 33 13-2297 for conduit field bending.

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0121 EA 1" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow 111.70 33.46 For Work In Restricted Working Space, Add 20.07 For Elevated Installation >10' To 15', Add 6.69 For Elevated Installation >15' To 20', Add 13.38 For Elevated Installation >20' To 25', Add 16.73 For Elevated Installation >25' To 30', Add 23.42 For Elevated Installation >30' To 35', Add 26.76 For Elevated Installation >35' To 40', Add 33.46 For Elevated Installation >40', Add 36.80		
26 05 33 13-0122 EA 1-1/4" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow 126.59 38.74 For Work In Restricted Working Space, Add 23.24 For Elevated Installation >10' To 15', Add 7.75 For Elevated Installation >15' To 20', Add 15.50 For Elevated Installation >20' To 25', Add 19.37 For Elevated Installation >25' To 30', Add 27.12 For Elevated Installation >30' To 35', Add 30.99 For Elevated Installation >35' To 40', Add 38.74 For Elevated Installation >40', Add 42.61		
26 05 33 13-0123 EA 1-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow 140.86 44.02 For Work In Restricted Working Space, Add 26.41 For Elevated Installation >10' To 15', Add 8.80 For Elevated Installation >15' To 20', Add 17.61 For Elevated Installation >20' To 25', Add 22.01 For Elevated Installation >25' To 30', Add 30.81 For Elevated Installation >30' To 35', Add 35.22 For Elevated Installation >35' To 40', Add 44.02 For Elevated Installation >40', Add 48.42		
26 05 33 13-0124 EA 2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow 165.85 48.42 For Work In Restricted Working Space, Add 29.06 For Elevated Installation >10' To 15', Add 9.69 For Elevated Installation >15' To 20', Add 19.37 For Elevated Installation >20' To 25', Add 24.21 For Elevated Installation >25' To 30', Add 33.90 For Elevated Installation >30' To 35', Add 38.74 For Elevated Installation >35' To 40', Add 48.43 For Elevated Installation >40', Add 53.27		
26 05 33 13-0125 EA 2-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow 215.53 60.75 For Work In Restricted Working Space, Add 36.45 For Elevated Installation >10' To 15', Add 12.15 For Elevated Installation >15' To 20', Add 24.30 For Elevated Installation >20' To 25', Add 30.38 For Elevated Installation >25' To 30', Add 42.53 For Elevated Installation >30' To 35', Add 48.60 For Elevated Installation >35' To 40', Add 60.75 For Elevated Installation >40', Add 66.83		
26 05 33 13-0126 EA 3" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow 289.16 82.76 For Work In Restricted Working Space, Add 49.66 For Elevated Installation >10' To 15', Add 16.55 For Elevated Installation >15' To 20', Add 33.10 For Elevated Installation >20' To 25', Add 41.38 For Elevated Installation >25' To 30', Add 57.93 For Elevated Installation >30' To 35', Add 66.21 For Elevated Installation >35' To 40', Add 82.76 For Elevated Installation >40', Add 91.04		
26 05 33 13-0127 EA 3-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow 350.19 93.32 For Work In Restricted Working Space, Add 56.00 For Elevated Installation >10' To 15', Add 18.67 For Elevated Installation >15' To 20', Add 37.33 For Elevated Installation >20' To 25', Add 46.67 For Elevated Installation >25' To 30', Add 65.33 For Elevated Installation >30' To 35', Add 74.66 For Elevated Installation >35' To 40', Add 93.33 For Elevated Installation >40', Add 102.66		
26 05 33 13-0128 EA 4" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow 417.80 121.50 For Work In Restricted Working Space, Add 72.90 For Elevated Installation >10' To 15', Add 24.30 For Elevated Installation >15' To 20', Add 48.60 For Elevated Installation >20' To 25', Add 60.75 For Elevated Installation >25' To 30', Add 85.05 For Elevated Installation >30' To 35', Add 97.20 For Elevated Installation >35' To 40', Add 121.50 For Elevated Installation >40', Add 133.65		
26 05 33 13-0129 Rigid Galvanized Steel (RGS) 30" Large Radius Elbow (26 05 33 13-0059)		
See CSI section 26 05 33 13-2297 for conduit field bending.		
26 05 33 13-0130 EA 1" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow 111.04 33.46 For Work In Restricted Working Space, Add 20.08 For Elevated Installation >10' To 15', Add 6.69 For Elevated Installation >15' To 20', Add 13.38 For Elevated Installation >20' To 25', Add 16.73 For Elevated Installation >25' To 30', Add 23.42 For Elevated Installation >30' To 35', Add 26.77 For Elevated Installation >35' To 40', Add 33.46 For Elevated Installation >40', Add 36.81		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0131 EA 1-1/4" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	134.60	38.74
For Work In Restricted Working Space, Add	23.24	
For Elevated Installation >10' To 15', Add	7.75	
For Elevated Installation >15' To 20', Add	15.50	
For Elevated Installation >20' To 25', Add	19.37	
For Elevated Installation >25' To 30', Add	27.12	
For Elevated Installation >30' To 35', Add	30.99	
For Elevated Installation >35' To 40', Add	38.74	
For Elevated Installation >40', Add	42.61	
26 05 33 13-0132 EA 1-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	149.54	44.02
For Work In Restricted Working Space, Add	26.41	
For Elevated Installation >10' To 15', Add	8.80	
For Elevated Installation >15' To 20', Add	17.61	
For Elevated Installation >20' To 25', Add	22.01	
For Elevated Installation >25' To 30', Add	30.81	
For Elevated Installation >30' To 35', Add	35.22	
For Elevated Installation >35' To 40', Add	44.02	
For Elevated Installation >40', Add	48.42	
26 05 33 13-0133 EA 2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	177.19	48.42
For Work In Restricted Working Space, Add	29.06	
For Elevated Installation >10' To 15', Add	9.69	
For Elevated Installation >15' To 20', Add	19.37	
For Elevated Installation >20' To 25', Add	24.21	
For Elevated Installation >25' To 30', Add	33.90	
For Elevated Installation >30' To 35', Add	38.74	
For Elevated Installation >35' To 40', Add	48.43	
For Elevated Installation >40', Add	53.27	
26 05 33 13-0134 EA 2-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	231.10	60.75
For Work In Restricted Working Space, Add	36.45	
For Elevated Installation >10' To 15', Add	12.15	
For Elevated Installation >15' To 20', Add	24.30	
For Elevated Installation >20' To 25', Add	30.38	
For Elevated Installation >25' To 30', Add	42.53	
For Elevated Installation >30' To 35', Add	48.60	
For Elevated Installation >35' To 40', Add	60.75	
For Elevated Installation >40', Add	66.83	
26 05 33 13-0135 EA 3" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	309.26	82.76
For Work In Restricted Working Space, Add	49.66	
For Elevated Installation >10' To 15', Add	16.55	
For Elevated Installation >15' To 20', Add	33.10	
For Elevated Installation >20' To 25', Add	41.38	
For Elevated Installation >25' To 30', Add	57.93	
For Elevated Installation >30' To 35', Add	66.21	
For Elevated Installation >35' To 40', Add	82.76	
For Elevated Installation >40', Add	91.04	
26 05 33 13-0136 EA 3-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	374.65	93.32
For Work In Restricted Working Space, Add	56.00	
For Elevated Installation >10' To 15', Add	18.67	
For Elevated Installation >15' To 20', Add	37.33	
For Elevated Installation >20' To 25', Add	46.67	
For Elevated Installation >25' To 30', Add	65.33	
For Elevated Installation >30' To 35', Add	74.66	
For Elevated Installation >35' To 40', Add	93.33	
For Elevated Installation >40', Add	102.66	
26 05 33 13-0137 EA 4" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	454.01	121.50
For Work In Restricted Working Space, Add	72.90	
For Elevated Installation >10' To 15', Add	24.30	
For Elevated Installation >15' To 20', Add	48.60	
For Elevated Installation >20' To 25', Add	60.75	
For Elevated Installation >25' To 30', Add	85.05	
For Elevated Installation >30' To 35', Add	97.20	
For Elevated Installation >35' To 40', Add	121.50	
For Elevated Installation >40', Add	133.65	
26 05 33 13-0138 EA 5" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	667.23	198.10
For Work In Restricted Working Space, Add	118.86	
For Elevated Installation >10' To 15', Add	39.62	
For Elevated Installation >15' To 20', Add	79.24	
For Elevated Installation >20' To 25', Add	99.05	
For Elevated Installation >25' To 30', Add	138.67	
For Elevated Installation >30' To 35', Add	158.48	
For Elevated Installation >35' To 40', Add	198.10	
For Elevated Installation >40', Add	217.91	
26 05 33 13-0139 Rigid Galvanized Steel (RGS) 36" Large Radius Elbow (26 05 33 13-0059)		
See CSI section 26 05 33 13-2297 for conduit field bending.		
26 05 33 13-0140 EA 1" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	116.90	33.46
For Work In Restricted Working Space, Add	20.07	
For Elevated Installation >10' To 15', Add	6.69	
For Elevated Installation >15' To 20', Add	13.38	
For Elevated Installation >20' To 25', Add	16.73	
For Elevated Installation >25' To 30', Add	23.42	
For Elevated Installation >30' To 35', Add	26.76	
For Elevated Installation >35' To 40', Add	33.46	
For Elevated Installation >40', Add	36.80	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0141 EA 1-1/4" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	138.55	38.74
For Work In Restricted Working Space, Add	23.24	
For Elevated Installation >10' To 15', Add	7.75	
For Elevated Installation >15' To 20', Add	15.50	
For Elevated Installation >20' To 25', Add	19.37	
For Elevated Installation >25' To 30', Add	27.12	
For Elevated Installation >30' To 35', Add	30.99	
For Elevated Installation >35' To 40', Add	38.74	
For Elevated Installation >40', Add	42.61	
26 05 33 13-0142 EA 1-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	164.75	44.02
For Work In Restricted Working Space, Add	26.41	
For Elevated Installation >10' To 15', Add	8.80	
For Elevated Installation >15' To 20', Add	17.61	
For Elevated Installation >20' To 25', Add	22.01	
For Elevated Installation >25' To 30', Add	30.81	
For Elevated Installation >30' To 35', Add	35.22	
For Elevated Installation >35' To 40', Add	44.02	
For Elevated Installation >40', Add	48.42	
26 05 33 13-0143 EA 2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	186.05	48.42
For Work In Restricted Working Space, Add	29.06	
For Elevated Installation >10' To 15', Add	9.69	
For Elevated Installation >15' To 20', Add	19.37	
For Elevated Installation >20' To 25', Add	24.21	
For Elevated Installation >25' To 30', Add	33.90	
For Elevated Installation >30' To 35', Add	38.74	
For Elevated Installation >35' To 40', Add	48.43	
For Elevated Installation >40', Add	53.27	
26 05 33 13-0144 EA 2-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	249.58	60.75
For Work In Restricted Working Space, Add	36.45	
For Elevated Installation >10' To 15', Add	12.15	
For Elevated Installation >15' To 20', Add	24.30	
For Elevated Installation >20' To 25', Add	30.38	
For Elevated Installation >25' To 30', Add	42.53	
For Elevated Installation >30' To 35', Add	48.60	
For Elevated Installation >35' To 40', Add	60.75	
For Elevated Installation >40', Add	66.83	
26 05 33 13-0145 EA 3" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	326.45	82.76
For Work In Restricted Working Space, Add	49.66	
For Elevated Installation >10' To 15', Add	16.55	
For Elevated Installation >15' To 20', Add	33.10	
For Elevated Installation >20' To 25', Add	41.38	
For Elevated Installation >25' To 30', Add	57.93	
For Elevated Installation >30' To 35', Add	66.21	
For Elevated Installation >35' To 40', Add	82.76	
For Elevated Installation >40', Add	91.04	
26 05 33 13-0146 EA 3-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	406.25	93.32
For Work In Restricted Working Space, Add	56.00	
For Elevated Installation >10' To 15', Add	18.67	
For Elevated Installation >15' To 20', Add	37.33	
For Elevated Installation >20' To 25', Add	46.67	
For Elevated Installation >25' To 30', Add	65.33	
For Elevated Installation >30' To 35', Add	74.66	
For Elevated Installation >35' To 40', Add	93.33	
For Elevated Installation >40', Add	102.66	
26 05 33 13-0147 EA 4" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	471.05	121.50
For Work In Restricted Working Space, Add	72.90	
For Elevated Installation >10' To 15', Add	24.30	
For Elevated Installation >15' To 20', Add	48.60	
For Elevated Installation >20' To 25', Add	60.75	
For Elevated Installation >25' To 30', Add	85.05	
For Elevated Installation >30' To 35', Add	97.20	
For Elevated Installation >35' To 40', Add	121.50	
For Elevated Installation >40', Add	133.65	
26 05 33 13-0148 EA 5" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	806.22	198.10
For Work In Restricted Working Space, Add	118.86	
For Elevated Installation >10' To 15', Add	39.62	
For Elevated Installation >15' To 20', Add	79.24	
For Elevated Installation >20' To 25', Add	99.05	
For Elevated Installation >25' To 30', Add	138.67	
For Elevated Installation >30' To 35', Add	158.48	
For Elevated Installation >35' To 40', Add	198.10	
For Elevated Installation >40', Add	217.91	
26 05 33 13-0149 EA 6" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	1,045.64	297.59
For Work In Restricted Working Space, Add	178.55	
For Elevated Installation >10' To 15', Add	59.52	
For Elevated Installation >15' To 20', Add	119.04	
For Elevated Installation >20' To 25', Add	148.80	
For Elevated Installation >25' To 30', Add	208.31	
For Elevated Installation >30' To 35', Add	238.07	
For Elevated Installation >35' To 40', Add	297.59	
For Elevated Installation >40', Add	327.35	

26 05 33 13-0150 Rigid Galvanized Steel (RGS) 42" Large Radius Elbow (26 05 33 13-0059)
See CSI section 26 05 33 13-2297 for conduit field bending.



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0151	EA		1" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	125.51	33.46
			For Work In Restricted Working Space, Add	20.08	
			For Elevated Installation >10' To 15', Add	6.69	
			For Elevated Installation >15' To 20', Add	13.38	
			For Elevated Installation >20' To 25', Add	16.73	
			For Elevated Installation >25' To 30', Add	23.42	
			For Elevated Installation >30' To 35', Add	26.77	
			For Elevated Installation >35' To 40', Add	33.46	
			For Elevated Installation >40', Add	36.81	
26 05 33 13-0152	EA		1-1/4" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	149.05	38.74
			For Work In Restricted Working Space, Add	23.24	
			For Elevated Installation >10' To 15', Add	7.75	
			For Elevated Installation >15' To 20', Add	15.50	
			For Elevated Installation >20' To 25', Add	19.37	
			For Elevated Installation >25' To 30', Add	27.12	
			For Elevated Installation >30' To 35', Add	30.99	
			For Elevated Installation >35' To 40', Add	38.74	
			For Elevated Installation >40', Add	42.61	
26 05 33 13-0153	EA		1-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	175.91	44.02
			For Work In Restricted Working Space, Add	26.41	
			For Elevated Installation >10' To 15', Add	8.80	
			For Elevated Installation >15' To 20', Add	17.61	
			For Elevated Installation >20' To 25', Add	22.01	
			For Elevated Installation >25' To 30', Add	30.81	
			For Elevated Installation >30' To 35', Add	35.22	
			For Elevated Installation >35' To 40', Add	44.02	
			For Elevated Installation >40', Add	48.42	
26 05 33 13-0154	EA		2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	197.72	48.42
			For Work In Restricted Working Space, Add	29.06	
			For Elevated Installation >10' To 15', Add	9.69	
			For Elevated Installation >15' To 20', Add	19.37	
			For Elevated Installation >20' To 25', Add	24.21	
			For Elevated Installation >25' To 30', Add	33.90	
			For Elevated Installation >30' To 35', Add	38.74	
			For Elevated Installation >35' To 40', Add	48.43	
			For Elevated Installation >40', Add	53.27	
26 05 33 13-0155	EA		2-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	263.70	60.75
			For Work In Restricted Working Space, Add	36.45	
			For Elevated Installation >10' To 15', Add	12.15	
			For Elevated Installation >15' To 20', Add	24.30	
			For Elevated Installation >20' To 25', Add	30.38	
			For Elevated Installation >25' To 30', Add	42.53	
			For Elevated Installation >30' To 35', Add	48.60	
			For Elevated Installation >35' To 40', Add	60.75	
			For Elevated Installation >40', Add	66.83	
26 05 33 13-0156	EA		3" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	351.64	82.76
			For Work In Restricted Working Space, Add	49.66	
			For Elevated Installation >10' To 15', Add	16.55	
			For Elevated Installation >15' To 20', Add	33.10	
			For Elevated Installation >20' To 25', Add	41.38	
			For Elevated Installation >25' To 30', Add	57.93	
			For Elevated Installation >30' To 35', Add	66.21	
			For Elevated Installation >35' To 40', Add	82.76	
			For Elevated Installation >40', Add	91.04	
26 05 33 13-0157	EA		3-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	431.51	93.32
			For Work In Restricted Working Space, Add	56.00	
			For Elevated Installation >10' To 15', Add	18.67	
			For Elevated Installation >15' To 20', Add	37.33	
			For Elevated Installation >20' To 25', Add	46.67	
			For Elevated Installation >25' To 30', Add	65.33	
			For Elevated Installation >30' To 35', Add	74.66	
			For Elevated Installation >35' To 40', Add	93.33	
			For Elevated Installation >40', Add	102.66	
26 05 33 13-0158	EA		4" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	543.73	121.50
			For Work In Restricted Working Space, Add	72.90	
			For Elevated Installation >10' To 15', Add	24.30	
			For Elevated Installation >15' To 20', Add	48.60	
			For Elevated Installation >20' To 25', Add	60.75	
			For Elevated Installation >25' To 30', Add	85.05	
			For Elevated Installation >30' To 35', Add	97.20	
			For Elevated Installation >35' To 40', Add	121.50	
			For Elevated Installation >40', Add	133.65	
26 05 33 13-0159	EA		5" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	906.49	198.10
			For Work In Restricted Working Space, Add	118.86	
			For Elevated Installation >10' To 15', Add	39.62	
			For Elevated Installation >15' To 20', Add	79.24	
			For Elevated Installation >20' To 25', Add	99.05	
			For Elevated Installation >25' To 30', Add	138.67	
			For Elevated Installation >30' To 35', Add	158.48	
			For Elevated Installation >35' To 40', Add	198.10	
			For Elevated Installation >40', Add	217.91	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0160 EA 6" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	1,132.46 178.55 59.52 119.04 148.80 208.31 238.07 297.59 327.35	297.59
26 05 33 13-0161 Rigid Galvanized Steel (RGS) 48" Large Radius Elbow (26 05 33 13-0059) See CSI section 26 05 33 13-2297 for conduit field bending.		
26 05 33 13-0162 EA 1" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	132.67 20.08 6.69 13.38 16.73 23.42 26.77 33.46 36.81	33.46
26 05 33 13-0163 EA 1-1/4" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	157.14 23.24 7.75 15.50 19.37 27.12 30.99 38.74 42.61	38.74
26 05 33 13-0164 EA 1-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	182.97 26.41 8.80 17.61 22.01 30.81 35.22 44.02 48.42	44.02
26 05 33 13-0165 EA 2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	219.53 29.06 9.69 19.37 24.21 33.90 38.74 48.43 53.27	48.42
26 05 33 13-0166 EA 2-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	289.76 36.45 12.15 24.30 30.38 42.53 48.60 60.75 66.83	60.75
26 05 33 13-0167 EA 3" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	377.02 49.66 16.55 33.10 41.38 57.93 66.21 82.76 91.04	82.76
26 05 33 13-0168 EA 3-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	463.27 56.00 18.67 37.33 46.67 65.33 74.66 93.33 102.66	93.32
26 05 33 13-0169 EA 4" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	582.31 72.90 24.30 48.60 60.75 85.05 97.20 121.50 133.65	121.50



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0170	EA		5" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	937.89	198.10
			For Work In Restricted Working Space, Add	118.86	
			For Elevated Installation >10' To 15', Add	39.62	
			For Elevated Installation >15' To 20', Add	79.24	
			For Elevated Installation >20' To 25', Add	99.05	
			For Elevated Installation >25' To 30', Add	138.67	
			For Elevated Installation >30' To 35', Add	158.48	
			For Elevated Installation >35' To 40', Add	198.10	
			For Elevated Installation >40', Add	217.91	
26 05 33 13-0171	EA		6" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow	1,150.03	297.59
			For Work In Restricted Working Space, Add	178.55	
			For Elevated Installation >10' To 15', Add	59.52	
			For Elevated Installation >15' To 20', Add	119.04	
			For Elevated Installation >20' To 25', Add	148.80	
			For Elevated Installation >25' To 30', Add	208.31	
			For Elevated Installation >30' To 35', Add	238.07	
			For Elevated Installation >35' To 40', Add	297.59	
			For Elevated Installation >40', Add	327.35	
26 05 33 13-0172 Rigid Galvanized Steel (RGS) Plastic Insulating Bushing (26 05 33 13-0059)					
26 05 33 13-0173	EA		1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	17.66	8.64
			For Work In Restricted Working Space, Add	5.18	
			For Elevated Installation >10' To 15', Add	1.73	
			For Elevated Installation >15' To 20', Add	3.45	
			For Elevated Installation >20' To 25', Add	4.32	
			For Elevated Installation >25' To 30', Add	6.04	
			For Elevated Installation >30' To 35', Add	6.91	
			For Elevated Installation >35' To 40', Add	8.64	
			For Elevated Installation >40', Add	9.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.18	
26 05 33 13-0174	EA		3/4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	18.93	9.21
			For Work In Restricted Working Space, Add	5.53	
			For Elevated Installation >10' To 15', Add	1.84	
			For Elevated Installation >15' To 20', Add	3.68	
			For Elevated Installation >20' To 25', Add	4.61	
			For Elevated Installation >25' To 30', Add	6.45	
			For Elevated Installation >30' To 35', Add	7.37	
			For Elevated Installation >35' To 40', Add	9.21	
			For Elevated Installation >40', Add	10.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.53	
26 05 33 13-0175	EA		1" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	21.50	10.36
			For Work In Restricted Working Space, Add	6.22	
			For Elevated Installation >10' To 15', Add	2.07	
			For Elevated Installation >15' To 20', Add	4.14	
			For Elevated Installation >20' To 25', Add	5.18	
			For Elevated Installation >25' To 30', Add	7.25	
			For Elevated Installation >30' To 35', Add	8.29	
			For Elevated Installation >35' To 40', Add	10.36	
			For Elevated Installation >40', Add	11.40	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.22	
26 05 33 13-0176	EA		1-1/4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	24.15	11.51
			For Work In Restricted Working Space, Add	6.91	
			For Elevated Installation >10' To 15', Add	2.30	
			For Elevated Installation >15' To 20', Add	4.61	
			For Elevated Installation >20' To 25', Add	5.76	
			For Elevated Installation >25' To 30', Add	8.06	
			For Elevated Installation >30' To 35', Add	9.21	
			For Elevated Installation >35' To 40', Add	11.52	
			For Elevated Installation >40', Add	12.67	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.91	
26 05 33 13-0177	EA		1-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	30.32	14.39
			For Work In Restricted Working Space, Add	8.63	
			For Elevated Installation >10' To 15', Add	2.88	
			For Elevated Installation >15' To 20', Add	5.76	
			For Elevated Installation >20' To 25', Add	7.20	
			For Elevated Installation >25' To 30', Add	10.07	
			For Elevated Installation >30' To 35', Add	11.51	
			For Elevated Installation >35' To 40', Add	14.39	
			For Elevated Installation >40', Add	15.83	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.63	
26 05 33 13-0178	EA		2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	37.39	17.27
			For Work In Restricted Working Space, Add	10.36	
			For Elevated Installation >10' To 15', Add	3.45	
			For Elevated Installation >15' To 20', Add	6.91	
			For Elevated Installation >20' To 25', Add	8.64	
			For Elevated Installation >25' To 30', Add	12.09	
			For Elevated Installation >30' To 35', Add	13.82	
			For Elevated Installation >35' To 40', Add	17.27	
			For Elevated Installation >40', Add	19.00	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.36	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0179 EA 2-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	46.59	20.15
For Work In Restricted Working Space, Add	12.09	
For Elevated Installation >10' To 15', Add	4.03	
For Elevated Installation >15' To 20', Add	8.06	
For Elevated Installation >20' To 25', Add	10.07	
For Elevated Installation >25' To 30', Add	14.10	
For Elevated Installation >30' To 35', Add	16.12	
For Elevated Installation >35' To 40', Add	20.15	
For Elevated Installation >40', Add	22.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.09	
26 05 33 13-0180 EA 3" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	52.70	23.03
For Work In Restricted Working Space, Add	13.82	
For Elevated Installation >10' To 15', Add	4.61	
For Elevated Installation >15' To 20', Add	9.21	
For Elevated Installation >20' To 25', Add	11.52	
For Elevated Installation >25' To 30', Add	16.12	
For Elevated Installation >30' To 35', Add	18.42	
For Elevated Installation >35' To 40', Add	23.03	
For Elevated Installation >40', Add	25.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.82	
26 05 33 13-0181 EA 3-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	61.03	21.67
For Work In Restricted Working Space, Add	15.54	
For Elevated Installation >10' To 15', Add	5.18	
For Elevated Installation >15' To 20', Add	10.36	
For Elevated Installation >20' To 25', Add	12.95	
For Elevated Installation >25' To 30', Add	18.13	
For Elevated Installation >30' To 35', Add	20.72	
For Elevated Installation >35' To 40', Add	25.91	
For Elevated Installation >40', Add	28.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.54	
26 05 33 13-0182 EA 4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	67.73	28.78
For Work In Restricted Working Space, Add	17.27	
For Elevated Installation >10' To 15', Add	5.76	
For Elevated Installation >15' To 20', Add	11.51	
For Elevated Installation >20' To 25', Add	14.39	
For Elevated Installation >25' To 30', Add	20.15	
For Elevated Installation >30' To 35', Add	23.03	
For Elevated Installation >35' To 40', Add	28.79	
For Elevated Installation >40', Add	31.66	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.27	
26 05 33 13-0183 EA 5" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	80.64	31.67
For Work In Restricted Working Space, Add	19.00	
For Elevated Installation >10' To 15', Add	6.33	
For Elevated Installation >15' To 20', Add	12.66	
For Elevated Installation >20' To 25', Add	15.83	
For Elevated Installation >25' To 30', Add	22.16	
For Elevated Installation >30' To 35', Add	25.33	
For Elevated Installation >35' To 40', Add	31.66	
For Elevated Installation >40', Add	34.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.00	
26 05 33 13-0184 EA 6" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing	112.95	34.54
For Work In Restricted Working Space, Add	20.72	
For Elevated Installation >10' To 15', Add	6.91	
For Elevated Installation >15' To 20', Add	13.82	
For Elevated Installation >20' To 25', Add	17.27	
For Elevated Installation >25' To 30', Add	24.18	
For Elevated Installation >30' To 35', Add	27.63	
For Elevated Installation >35' To 40', Add	34.54	
For Elevated Installation >40', Add	37.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.72	
26 05 33 13-0185 Rigid Galvanized Steel (RGS) Steel Bushing (26 05 33 13-0059)		
26 05 33 13-0186 EA 1/2" Rigid Galvanized Steel (RGS) Steel Bushing	21.28	10.16
For Work In Restricted Working Space, Add	6.10	
For Elevated Installation >10' To 15', Add	2.03	
For Elevated Installation >15' To 20', Add	4.06	
For Elevated Installation >20' To 25', Add	5.08	
For Elevated Installation >25' To 30', Add	7.11	
For Elevated Installation >30' To 35', Add	8.13	
For Elevated Installation >35' To 40', Add	10.16	
For Elevated Installation >40', Add	11.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.10	
26 05 33 13-0187 EA 3/4" Rigid Galvanized Steel (RGS) Steel Bushing	23.08	10.83
For Work In Restricted Working Space, Add	6.50	
For Elevated Installation >10' To 15', Add	2.17	
For Elevated Installation >15' To 20', Add	4.33	
For Elevated Installation >20' To 25', Add	5.42	
For Elevated Installation >25' To 30', Add	7.58	
For Elevated Installation >30' To 35', Add	8.67	
For Elevated Installation >35' To 40', Add	10.84	
For Elevated Installation >40', Add	11.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.50	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0188	EA		1" Rigid Galvanized Steel (RGS) Steel Bushing	26.82	12.20
			For Work In Restricted Working Space, Add	7.31	
			For Elevated Installation >10' To 15', Add	2.44	
			For Elevated Installation >15' To 20', Add	4.88	
			For Elevated Installation >20' To 25', Add	6.10	
			For Elevated Installation >25' To 30', Add	8.53	
			For Elevated Installation >30' To 35', Add	9.75	
			For Elevated Installation >35' To 40', Add	12.19	
			For Elevated Installation >40', Add	13.41	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.31	
26 05 33 13-0189	EA		1-1/4" Rigid Galvanized Steel (RGS) Steel Bushing	30.11	13.55
			For Work In Restricted Working Space, Add	8.13	
			For Elevated Installation >10' To 15', Add	2.71	
			For Elevated Installation >15' To 20', Add	5.42	
			For Elevated Installation >20' To 25', Add	6.77	
			For Elevated Installation >25' To 30', Add	9.48	
			For Elevated Installation >30' To 35', Add	10.84	
			For Elevated Installation >35' To 40', Add	13.55	
			For Elevated Installation >40', Add	14.90	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 05 33 13-0190	EA		1-1/2" Rigid Galvanized Steel (RGS) Steel Bushing	38.32	16.94
			For Work In Restricted Working Space, Add	10.16	
			For Elevated Installation >10' To 15', Add	3.39	
			For Elevated Installation >15' To 20', Add	6.77	
			For Elevated Installation >20' To 25', Add	8.47	
			For Elevated Installation >25' To 30', Add	11.85	
			For Elevated Installation >30' To 35', Add	13.54	
			For Elevated Installation >35' To 40', Add	16.93	
			For Elevated Installation >40', Add	18.62	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	
26 05 33 13-0191	EA		2" Rigid Galvanized Steel (RGS) Steel Bushing	45.43	20.32
			For Work In Restricted Working Space, Add	12.19	
			For Elevated Installation >10' To 15', Add	4.06	
			For Elevated Installation >15' To 20', Add	8.13	
			For Elevated Installation >20' To 25', Add	10.16	
			For Elevated Installation >25' To 30', Add	14.22	
			For Elevated Installation >30' To 35', Add	16.25	
			For Elevated Installation >35' To 40', Add	20.32	
			For Elevated Installation >40', Add	22.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.19	
26 05 33 13-0192	EA		2-1/2" Rigid Galvanized Steel (RGS) Steel Bushing	62.49	23.70
			For Work In Restricted Working Space, Add	14.22	
			For Elevated Installation >10' To 15', Add	4.74	
			For Elevated Installation >15' To 20', Add	9.48	
			For Elevated Installation >20' To 25', Add	11.85	
			For Elevated Installation >25' To 30', Add	16.59	
			For Elevated Installation >30' To 35', Add	18.96	
			For Elevated Installation >35' To 40', Add	23.71	
			For Elevated Installation >40', Add	26.08	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.22	
26 05 33 13-0193	EA		3" Rigid Galvanized Steel (RGS) Steel Bushing	73.97	27.09
			For Work In Restricted Working Space, Add	16.25	
			For Elevated Installation >10' To 15', Add	5.42	
			For Elevated Installation >15' To 20', Add	10.84	
			For Elevated Installation >20' To 25', Add	13.55	
			For Elevated Installation >25' To 30', Add	18.96	
			For Elevated Installation >30' To 35', Add	21.67	
			For Elevated Installation >35' To 40', Add	27.09	
			For Elevated Installation >40', Add	29.80	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.25	
26 05 33 13-0194	EA		3-1/2" Rigid Galvanized Steel (RGS) Steel Bushing	107.17	30.47
			For Work In Restricted Working Space, Add	18.29	
			For Elevated Installation >10' To 15', Add	6.10	
			For Elevated Installation >15' To 20', Add	12.19	
			For Elevated Installation >20' To 25', Add	15.24	
			For Elevated Installation >25' To 30', Add	21.34	
			For Elevated Installation >30' To 35', Add	24.38	
			For Elevated Installation >35' To 40', Add	30.48	
			For Elevated Installation >40', Add	33.53	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.29	
26 05 33 13-0195	EA		4" Rigid Galvanized Steel (RGS) Steel Bushing	142.68	33.86
			For Work In Restricted Working Space, Add	20.32	
			For Elevated Installation >10' To 15', Add	6.77	
			For Elevated Installation >15' To 20', Add	13.55	
			For Elevated Installation >20' To 25', Add	16.93	
			For Elevated Installation >25' To 30', Add	23.71	
			For Elevated Installation >30' To 35', Add	27.09	
			For Elevated Installation >35' To 40', Add	33.87	
			For Elevated Installation >40', Add	37.25	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.32	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0196 EA 5" Rigid Galvanized Steel (RGS) Steel Bushing	188.17	37.25
For Work In Restricted Working Space, Add	22.35	
For Elevated Installation >10' To 15', Add	7.45	
For Elevated Installation >15' To 20', Add	14.90	
For Elevated Installation >20' To 25', Add	18.62	
For Elevated Installation >25' To 30', Add	26.07	
For Elevated Installation >30' To 35', Add	29.80	
For Elevated Installation >35' To 40', Add	37.25	
For Elevated Installation >40', Add	40.97	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.35	
26 05 33 13-0197 EA 6" Rigid Galvanized Steel (RGS) Steel Bushing	273.13	40.63
For Work In Restricted Working Space, Add	24.38	
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.51	
For Elevated Installation >35' To 40', Add	40.64	
For Elevated Installation >40', Add	44.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.38	
26 05 33 13-0198 Rigid Galvanized Steel (RGS) Steel Insulated Bushing (26 05 33 13-0059)		
26 05 33 13-0199 EA 1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	22.42	10.16
For Work In Restricted Working Space, Add	6.10	
For Elevated Installation >10' To 15', Add	2.03	
For Elevated Installation >15' To 20', Add	4.06	
For Elevated Installation >20' To 25', Add	5.08	
For Elevated Installation >25' To 30', Add	7.11	
For Elevated Installation >30' To 35', Add	8.13	
For Elevated Installation >35' To 40', Add	10.16	
For Elevated Installation >40', Add	11.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.10	
26 05 33 13-0200 EA 3/4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	24.79	10.83
For Work In Restricted Working Space, Add	6.50	
For Elevated Installation >10' To 15', Add	2.17	
For Elevated Installation >15' To 20', Add	4.33	
For Elevated Installation >20' To 25', Add	5.42	
For Elevated Installation >25' To 30', Add	7.58	
For Elevated Installation >30' To 35', Add	8.67	
For Elevated Installation >35' To 40', Add	10.84	
For Elevated Installation >40', Add	11.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.50	
26 05 33 13-0201 EA 1" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	28.98	12.20
For Work In Restricted Working Space, Add	7.31	
For Elevated Installation >10' To 15', Add	2.44	
For Elevated Installation >15' To 20', Add	4.88	
For Elevated Installation >20' To 25', Add	6.10	
For Elevated Installation >25' To 30', Add	8.53	
For Elevated Installation >30' To 35', Add	9.75	
For Elevated Installation >35' To 40', Add	12.19	
For Elevated Installation >40', Add	13.41	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.31	
26 05 33 13-0202 EA 1-1/4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	33.75	13.55
For Work In Restricted Working Space, Add	8.13	
For Elevated Installation >10' To 15', Add	2.71	
For Elevated Installation >15' To 20', Add	5.42	
For Elevated Installation >20' To 25', Add	6.77	
For Elevated Installation >25' To 30', Add	9.48	
For Elevated Installation >30' To 35', Add	10.84	
For Elevated Installation >35' To 40', Add	13.55	
For Elevated Installation >40', Add	14.90	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 05 33 13-0203 EA 1-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	42.12	16.94
For Work In Restricted Working Space, Add	10.16	
For Elevated Installation >10' To 15', Add	3.39	
For Elevated Installation >15' To 20', Add	6.77	
For Elevated Installation >20' To 25', Add	8.47	
For Elevated Installation >25' To 30', Add	11.85	
For Elevated Installation >30' To 35', Add	13.54	
For Elevated Installation >35' To 40', Add	16.93	
For Elevated Installation >40', Add	18.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	
26 05 33 13-0204 EA 2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing	52.16	20.32
For Work In Restricted Working Space, Add	12.19	
For Elevated Installation >10' To 15', Add	4.06	
For Elevated Installation >15' To 20', Add	8.13	
For Elevated Installation >20' To 25', Add	10.16	
For Elevated Installation >25' To 30', Add	14.22	
For Elevated Installation >30' To 35', Add	16.25	
For Elevated Installation >35' To 40', Add	20.32	
For Elevated Installation >40', Add	22.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.19	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0205	EA	2-1/2"	Rigid Galvanized Steel (RGS) Steel Insulated Bushing For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.62 14.22 4.74 9.48 11.85 16.59 18.96 23.71 26.08 14.22	23.70
26 05 33 13-0206	EA	3"	Rigid Galvanized Steel (RGS) Steel Insulated Bushing For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.67 16.25 5.42 10.84 13.55 18.96 21.67 27.09 29.80 16.25	27.09
26 05 33 13-0207	EA	3-1/2"	Rigid Galvanized Steel (RGS) Steel Insulated Bushing For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	109.16 18.29 6.10 12.19 15.24 21.34 24.38 30.48 33.53 18.29	30.47
26 05 33 13-0208	EA	4"	Rigid Galvanized Steel (RGS) Steel Insulated Bushing For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	151.59 20.32 6.77 13.55 16.93 23.71 27.09 33.87 37.25 20.32	33.86
26 05 33 13-0209	EA	5"	Rigid Galvanized Steel (RGS) Steel Insulated Bushing For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	197.88 22.35 7.45 14.90 18.62 26.07 29.80 37.25 40.97 22.35	37.25
26 05 33 13-0210	EA	6"	Rigid Galvanized Steel (RGS) Steel Insulated Bushing For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	276.56 24.38 8.13 16.25 20.32 28.44 32.51 40.64 44.70 24.38	40.63
26 05 33 13-0211			Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing (26 05 33 13-0059)		
26 05 33 13-0212	EA	1/2"	Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.85 7.31 2.44 4.88 6.10 8.53 9.75 12.19 13.41 7.31	12.20
26 05 33 13-0213	EA	3/4"	Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.76 8.13 2.71 5.42 6.77 9.48 10.84 13.55 14.90 8.13	13.55

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0214 EA 1" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing	41.86	14.90
For Work In Restricted Working Space, Add	8.94	
For Elevated Installation >10' To 15', Add	2.98	
For Elevated Installation >15' To 20', Add	5.96	
For Elevated Installation >20' To 25', Add	7.45	
For Elevated Installation >25' To 30', Add	10.43	
For Elevated Installation >30' To 35', Add	11.92	
For Elevated Installation >35' To 40', Add	14.90	
For Elevated Installation >40', Add	16.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.94	
26 05 33 13-0215 EA 1-1/4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing	49.46	16.94
For Work In Restricted Working Space, Add	10.16	
For Elevated Installation >10' To 15', Add	3.39	
For Elevated Installation >15' To 20', Add	6.77	
For Elevated Installation >20' To 25', Add	8.47	
For Elevated Installation >25' To 30', Add	11.85	
For Elevated Installation >30' To 35', Add	13.54	
For Elevated Installation >35' To 40', Add	16.93	
For Elevated Installation >40', Add	18.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	
26 05 33 13-0216 EA 1-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing	59.99	20.99
For Work In Restricted Working Space, Add	12.60	
For Elevated Installation >10' To 15', Add	4.20	
For Elevated Installation >15' To 20', Add	8.40	
For Elevated Installation >20' To 25', Add	10.50	
For Elevated Installation >25' To 30', Add	14.70	
For Elevated Installation >30' To 35', Add	16.80	
For Elevated Installation >35' To 40', Add	21.00	
For Elevated Installation >40', Add	23.09	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.60	
26 05 33 13-0217 EA 2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing	75.12	25.06
For Work In Restricted Working Space, Add	15.03	
For Elevated Installation >10' To 15', Add	5.01	
For Elevated Installation >15' To 20', Add	10.02	
For Elevated Installation >20' To 25', Add	12.53	
For Elevated Installation >25' To 30', Add	17.54	
For Elevated Installation >30' To 35', Add	20.04	
For Elevated Installation >35' To 40', Add	25.06	
For Elevated Installation >40', Add	27.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.03	
26 05 33 13-0218 EA 2-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing	99.10	29.12
For Work In Restricted Working Space, Add	17.47	
For Elevated Installation >10' To 15', Add	5.82	
For Elevated Installation >15' To 20', Add	11.65	
For Elevated Installation >20' To 25', Add	14.56	
For Elevated Installation >25' To 30', Add	20.38	
For Elevated Installation >30' To 35', Add	23.30	
For Elevated Installation >35' To 40', Add	29.12	
For Elevated Installation >40', Add	32.03	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.47	
26 05 33 13-0219 EA 3" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing	109.88	33.86
For Work In Restricted Working Space, Add	20.32	
For Elevated Installation >10' To 15', Add	6.77	
For Elevated Installation >15' To 20', Add	13.55	
For Elevated Installation >20' To 25', Add	16.93	
For Elevated Installation >25' To 30', Add	23.71	
For Elevated Installation >30' To 35', Add	27.09	
For Elevated Installation >35' To 40', Add	33.87	
For Elevated Installation >40', Add	37.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.32	
26 05 33 13-0220 EA 3-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing	124.13	37.93
For Work In Restricted Working Space, Add	22.76	
For Elevated Installation >10' To 15', Add	7.59	
For Elevated Installation >15' To 20', Add	15.17	
For Elevated Installation >20' To 25', Add	18.97	
For Elevated Installation >25' To 30', Add	26.55	
For Elevated Installation >30' To 35', Add	30.34	
For Elevated Installation >35' To 40', Add	37.93	
For Elevated Installation >40', Add	41.72	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.76	
26 05 33 13-0221 EA 4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing	157.87	41.99
For Work In Restricted Working Space, Add	25.19	
For Elevated Installation >10' To 15', Add	8.40	
For Elevated Installation >15' To 20', Add	16.80	
For Elevated Installation >20' To 25', Add	21.00	
For Elevated Installation >25' To 30', Add	29.39	
For Elevated Installation >30' To 35', Add	33.59	
For Elevated Installation >35' To 40', Add	41.99	
For Elevated Installation >40', Add	46.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.19	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0222	EA		5" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	219.30	46.06
			For Work In Restricted Working Space, Add	27.63	
			For Elevated Installation >10' To 15', Add	9.21	
			For Elevated Installation >15' To 20', Add	18.42	
			For Elevated Installation >20' To 25', Add	23.03	
			For Elevated Installation >25' To 30', Add	32.24	
			For Elevated Installation >30' To 35', Add	36.84	
			For Elevated Installation >35' To 40', Add	46.06	
			For Elevated Installation >40', Add	50.66	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.63	
26 05 33 13-0223	EA		6" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	297.65	50.80
			For Work In Restricted Working Space, Add	30.48	
			For Elevated Installation >10' To 15', Add	10.16	
			For Elevated Installation >15' To 20', Add	20.32	
			For Elevated Installation >20' To 25', Add	25.40	
			For Elevated Installation >25' To 30', Add	35.56	
			For Elevated Installation >30' To 35', Add	40.64	
			For Elevated Installation >35' To 40', Add	50.80	
			For Elevated Installation >40', Add	55.87	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.48	
26 05 33 13-0224			Rigid Galvanized Steel (RGS) Box Connectors With Set Screw (26 05 33 13-0059)		
26 05 33 13-0225	EA		1/2" Rigid Galvanized Steel (RGS) Box Connector With Set Screw	20.45	6.23
			For Work In Restricted Working Space, Add	4.64	
			For Elevated Installation >10' To 15', Add	1.55	
			For Elevated Installation >15' To 20', Add	3.09	
			For Elevated Installation >20' To 25', Add	3.87	
			For Elevated Installation >25' To 30', Add	5.41	
			For Elevated Installation >30' To 35', Add	6.18	
			For Elevated Installation >35' To 40', Add	7.73	
			For Elevated Installation >40', Add	8.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.64	
26 05 33 13-0226	EA		3/4" Rigid Galvanized Steel (RGS) Box Connector With Set Screw	24.82	7.17
			For Work In Restricted Working Space, Add	5.37	
			For Elevated Installation >10' To 15', Add	1.79	
			For Elevated Installation >15' To 20', Add	3.58	
			For Elevated Installation >20' To 25', Add	4.48	
			For Elevated Installation >25' To 30', Add	6.27	
			For Elevated Installation >30' To 35', Add	7.16	
			For Elevated Installation >35' To 40', Add	8.95	
			For Elevated Installation >40', Add	9.85	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.37	
26 05 33 13-0227	EA		1" Rigid Galvanized Steel (RGS) Box Connector With Set Screw	32.61	8.67
			For Work In Restricted Working Space, Add	6.47	
			For Elevated Installation >10' To 15', Add	2.16	
			For Elevated Installation >15' To 20', Add	4.31	
			For Elevated Installation >20' To 25', Add	5.39	
			For Elevated Installation >25' To 30', Add	7.55	
			For Elevated Installation >30' To 35', Add	8.63	
			For Elevated Installation >35' To 40', Add	10.79	
			For Elevated Installation >40', Add	11.86	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.47	
26 05 33 13-0228	EA		1-1/4" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw	48.48	10.70
			For Work In Restricted Working Space, Add	8.05	
			For Elevated Installation >10' To 15', Add	2.68	
			For Elevated Installation >15' To 20', Add	5.37	
			For Elevated Installation >20' To 25', Add	6.71	
			For Elevated Installation >25' To 30', Add	9.39	
			For Elevated Installation >30' To 35', Add	10.74	
			For Elevated Installation >35' To 40', Add	13.42	
			For Elevated Installation >40', Add	14.76	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.05	
26 05 33 13-0229	EA		1-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw	65.65	14.36
			For Work In Restricted Working Space, Add	10.78	
			For Elevated Installation >10' To 15', Add	3.59	
			For Elevated Installation >15' To 20', Add	7.19	
			For Elevated Installation >20' To 25', Add	8.98	
			For Elevated Installation >25' To 30', Add	12.58	
			For Elevated Installation >30' To 35', Add	14.37	
			For Elevated Installation >35' To 40', Add	17.97	
			For Elevated Installation >40', Add	19.76	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.78	
26 05 33 13-0230	EA		2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	112.09	21.53
			For Work In Restricted Working Space, Add	16.14	
			For Elevated Installation >10' To 15', Add	5.38	
			For Elevated Installation >15' To 20', Add	10.76	
			For Elevated Installation >20' To 25', Add	13.45	
			For Elevated Installation >25' To 30', Add	18.83	
			For Elevated Installation >30' To 35', Add	21.52	
			For Elevated Installation >35' To 40', Add	26.91	
			For Elevated Installation >40', Add	29.60	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.14	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0231 EA 2-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	203.81	23.84
For Work In Restricted Working Space, Add	17.88	
For Elevated Installation >10' To 15', Add	5.96	
For Elevated Installation >15' To 20', Add	11.92	
For Elevated Installation >20' To 25', Add	14.90	
For Elevated Installation >25' To 30', Add	20.86	
For Elevated Installation >30' To 35', Add	23.84	
For Elevated Installation >35' To 40', Add	29.80	
For Elevated Installation >40', Add	32.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.88	
26 05 33 13-0232 EA 3" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	242.90	28.85
For Work In Restricted Working Space, Add	21.66	
For Elevated Installation >10' To 15', Add	7.22	
For Elevated Installation >15' To 20', Add	14.44	
For Elevated Installation >20' To 25', Add	18.05	
For Elevated Installation >25' To 30', Add	25.27	
For Elevated Installation >30' To 35', Add	28.88	
For Elevated Installation >35' To 40', Add	36.10	
For Elevated Installation >40', Add	39.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.66	
26 05 33 13-0233 EA 3-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	328.78	36.17
For Work In Restricted Working Space, Add	27.11	
For Elevated Installation >10' To 15', Add	9.04	
For Elevated Installation >15' To 20', Add	18.07	
For Elevated Installation >20' To 25', Add	22.59	
For Elevated Installation >25' To 30', Add	31.63	
For Elevated Installation >30' To 35', Add	36.15	
For Elevated Installation >35' To 40', Add	45.19	
For Elevated Installation >40', Add	49.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.11	
26 05 33 13-0234 EA 4" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	385.04	43.34
For Work In Restricted Working Space, Add	32.51	
For Elevated Installation >10' To 15', Add	10.84	
For Elevated Installation >15' To 20', Add	21.67	
For Elevated Installation >20' To 25', Add	27.09	
For Elevated Installation >25' To 30', Add	37.93	
For Elevated Installation >30' To 35', Add	43.34	
For Elevated Installation >35' To 40', Add	54.18	
For Elevated Installation >40', Add	59.60	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 05 33 13-0235 EA 5" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	679.65	48.22
For Work In Restricted Working Space, Add	36.12	
For Elevated Installation >10' To 15', Add	12.04	
For Elevated Installation >15' To 20', Add	24.08	
For Elevated Installation >20' To 25', Add	30.10	
For Elevated Installation >25' To 30', Add	42.14	
For Elevated Installation >30' To 35', Add	48.16	
For Elevated Installation >35' To 40', Add	60.21	
For Elevated Installation >40', Add	66.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.12	
26 05 33 13-0236 EA 6" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	812.39	54.18
For Work In Restricted Working Space, Add	40.63	
For Elevated Installation >10' To 15', Add	13.54	
For Elevated Installation >15' To 20', Add	27.08	
For Elevated Installation >20' To 25', Add	33.86	
For Elevated Installation >25' To 30', Add	47.40	
For Elevated Installation >30' To 35', Add	54.17	
For Elevated Installation >35' To 40', Add	67.71	
For Elevated Installation >40', Add	74.48	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.63	
26 05 33 13-0237 Rigid Galvanized Steel (RGS) Nipples (26 05 33 13-0059)		
26 05 33 13-0238 EA 1/2" x 2" Long, Rigid Galvanized Steel (RGS) Nipple.....	19.44	8.81
For Work In Restricted Working Space, Add	5.28	
For Elevated Installation >10' To 15', Add	1.76	
For Elevated Installation >15' To 20', Add	3.52	
For Elevated Installation >20' To 25', Add	4.40	
For Elevated Installation >25' To 30', Add	6.16	
For Elevated Installation >30' To 35', Add	7.04	
For Elevated Installation >35' To 40', Add	8.81	
For Elevated Installation >40', Add	9.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.28	
26 05 33 13-0239 EA 3/4" x 2" Long, Rigid Galvanized Steel (RGS) Nipple.....	22.37	10.16
For Work In Restricted Working Space, Add	6.09	
For Elevated Installation >10' To 15', Add	2.03	
For Elevated Installation >15' To 20', Add	4.06	
For Elevated Installation >20' To 25', Add	5.08	
For Elevated Installation >25' To 30', Add	7.11	
For Elevated Installation >30' To 35', Add	8.12	
For Elevated Installation >35' To 40', Add	10.16	
For Elevated Installation >40', Add	11.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.09	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0240	EA	1" x 2" Long, Rigid Galvanized Steel (RGS) Nipple	.....	28.60	12.87
		For Work In Restricted Working Space, Add	.....	7.72	
		For Elevated Installation >10' To 15', Add	.....	2.57	
		For Elevated Installation >15' To 20', Add	.....	5.15	
		For Elevated Installation >20' To 25', Add	.....	6.43	
		For Elevated Installation >25' To 30', Add	.....	9.01	
		For Elevated Installation >30' To 35', Add	.....	10.29	
		For Elevated Installation >35' To 40', Add	.....	12.87	
		For Elevated Installation >40', Add	.....	14.15	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	7.72	
26 05 33 13-0241	EA	1-1/4" x 2" Long, Rigid Galvanized Steel (RGS) Nipple	.....	33.45	14.90
		For Work In Restricted Working Space, Add	.....	8.94	
		For Elevated Installation >10' To 15', Add	.....	2.98	
		For Elevated Installation >15' To 20', Add	.....	5.96	
		For Elevated Installation >20' To 25', Add	.....	7.45	
		For Elevated Installation >25' To 30', Add	.....	10.43	
		For Elevated Installation >30' To 35', Add	.....	11.92	
		For Elevated Installation >35' To 40', Add	.....	14.90	
		For Elevated Installation >40', Add	.....	16.39	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	8.94	
26 05 33 13-0242	EA	1-1/2" x 2" Long, Rigid Galvanized Steel (RGS) Nipple	.....	38.19	16.94
		For Work In Restricted Working Space, Add	.....	10.16	
		For Elevated Installation >10' To 15', Add	.....	3.39	
		For Elevated Installation >15' To 20', Add	.....	6.77	
		For Elevated Installation >20' To 25', Add	.....	8.47	
		For Elevated Installation >25' To 30', Add	.....	11.85	
		For Elevated Installation >30' To 35', Add	.....	13.54	
		For Elevated Installation >35' To 40', Add	.....	16.93	
		For Elevated Installation >40', Add	.....	18.62	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	10.16	
26 05 33 13-0243	EA	1/2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	.....	19.59	8.81
		For Work In Restricted Working Space, Add	.....	5.28	
		For Elevated Installation >10' To 15', Add	.....	1.76	
		For Elevated Installation >15' To 20', Add	.....	3.52	
		For Elevated Installation >20' To 25', Add	.....	4.40	
		For Elevated Installation >25' To 30', Add	.....	6.16	
		For Elevated Installation >30' To 35', Add	.....	7.04	
		For Elevated Installation >35' To 40', Add	.....	8.81	
		For Elevated Installation >40', Add	.....	9.69	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	5.28	
26 05 33 13-0244	EA	3/4" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	.....	22.60	10.16
		For Work In Restricted Working Space, Add	.....	6.09	
		For Elevated Installation >10' To 15', Add	.....	2.03	
		For Elevated Installation >15' To 20', Add	.....	4.06	
		For Elevated Installation >20' To 25', Add	.....	5.08	
		For Elevated Installation >25' To 30', Add	.....	7.11	
		For Elevated Installation >30' To 35', Add	.....	8.12	
		For Elevated Installation >35' To 40', Add	.....	10.16	
		For Elevated Installation >40', Add	.....	11.17	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	6.09	
26 05 33 13-0245	EA	1" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	.....	28.85	12.87
		For Work In Restricted Working Space, Add	.....	7.72	
		For Elevated Installation >10' To 15', Add	.....	2.57	
		For Elevated Installation >15' To 20', Add	.....	5.15	
		For Elevated Installation >20' To 25', Add	.....	6.43	
		For Elevated Installation >25' To 30', Add	.....	9.01	
		For Elevated Installation >30' To 35', Add	.....	10.29	
		For Elevated Installation >35' To 40', Add	.....	12.87	
		For Elevated Installation >40', Add	.....	14.15	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	7.72	
26 05 33 13-0246	EA	1-1/4" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	.....	33.80	14.90
		For Work In Restricted Working Space, Add	.....	8.94	
		For Elevated Installation >10' To 15', Add	.....	2.98	
		For Elevated Installation >15' To 20', Add	.....	5.96	
		For Elevated Installation >20' To 25', Add	.....	7.45	
		For Elevated Installation >25' To 30', Add	.....	10.43	
		For Elevated Installation >30' To 35', Add	.....	11.92	
		For Elevated Installation >35' To 40', Add	.....	14.90	
		For Elevated Installation >40', Add	.....	16.39	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	8.94	
26 05 33 13-0247	EA	1-1/2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	.....	38.75	16.94
		For Work In Restricted Working Space, Add	.....	10.16	
		For Elevated Installation >10' To 15', Add	.....	3.39	
		For Elevated Installation >15' To 20', Add	.....	6.77	
		For Elevated Installation >20' To 25', Add	.....	8.47	
		For Elevated Installation >25' To 30', Add	.....	11.85	
		For Elevated Installation >30' To 35', Add	.....	13.54	
		For Elevated Installation >35' To 40', Add	.....	16.93	
		For Elevated Installation >40', Add	.....	18.62	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	10.16	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0248 EA 2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	43.83	18.96
For Work In Restricted Working Space, Add	11.38	
For Elevated Installation >10' To 15', Add	3.79	
For Elevated Installation >15' To 20', Add	7.59	
For Elevated Installation >20' To 25', Add	9.48	
For Elevated Installation >25' To 30', Add	13.28	
For Elevated Installation >30' To 35', Add	15.17	
For Elevated Installation >35' To 40', Add	18.97	
For Elevated Installation >40', Add	20.86	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.38	
26 05 33 13-0249 EA 1 1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	19.75	8.81
For Work In Restricted Working Space, Add	5.28	
For Elevated Installation >10' To 15', Add	1.76	
For Elevated Installation >15' To 20', Add	3.52	
For Elevated Installation >20' To 25', Add	4.40	
For Elevated Installation >25' To 30', Add	6.16	
For Elevated Installation >30' To 35', Add	7.04	
For Elevated Installation >35' To 40', Add	8.81	
For Elevated Installation >40', Add	9.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.28	
26 05 33 13-0250 EA 3/4" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	22.81	10.16
For Work In Restricted Working Space, Add	6.09	
For Elevated Installation >10' To 15', Add	2.03	
For Elevated Installation >15' To 20', Add	4.06	
For Elevated Installation >20' To 25', Add	5.08	
For Elevated Installation >25' To 30', Add	7.11	
For Elevated Installation >30' To 35', Add	8.12	
For Elevated Installation >35' To 40', Add	10.16	
For Elevated Installation >40', Add	11.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.09	
26 05 33 13-0251 EA 1" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	29.21	12.87
For Work In Restricted Working Space, Add	7.72	
For Elevated Installation >10' To 15', Add	2.57	
For Elevated Installation >15' To 20', Add	5.15	
For Elevated Installation >20' To 25', Add	6.43	
For Elevated Installation >25' To 30', Add	9.01	
For Elevated Installation >30' To 35', Add	10.29	
For Elevated Installation >35' To 40', Add	12.87	
For Elevated Installation >40', Add	14.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.72	
26 05 33 13-0252 EA 1-1/4" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	34.11	14.90
For Work In Restricted Working Space, Add	8.94	
For Elevated Installation >10' To 15', Add	2.98	
For Elevated Installation >15' To 20', Add	5.96	
For Elevated Installation >20' To 25', Add	7.45	
For Elevated Installation >25' To 30', Add	10.43	
For Elevated Installation >30' To 35', Add	11.92	
For Elevated Installation >35' To 40', Add	14.90	
For Elevated Installation >40', Add	16.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.94	
26 05 33 13-0253 EA 1-1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	39.12	16.94
For Work In Restricted Working Space, Add	10.16	
For Elevated Installation >10' To 15', Add	3.39	
For Elevated Installation >15' To 20', Add	6.77	
For Elevated Installation >20' To 25', Add	8.47	
For Elevated Installation >25' To 30', Add	11.85	
For Elevated Installation >30' To 35', Add	13.54	
For Elevated Installation >35' To 40', Add	16.93	
For Elevated Installation >40', Add	18.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	
26 05 33 13-0254 EA 2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	44.75	18.96
For Work In Restricted Working Space, Add	11.38	
For Elevated Installation >10' To 15', Add	3.79	
For Elevated Installation >15' To 20', Add	7.58	
For Elevated Installation >20' To 25', Add	9.48	
For Elevated Installation >25' To 30', Add	13.27	
For Elevated Installation >30' To 35', Add	15.17	
For Elevated Installation >35' To 40', Add	18.96	
For Elevated Installation >40', Add	20.86	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.38	
26 05 33 13-0255 EA 2-1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	60.15	23.03
For Work In Restricted Working Space, Add	13.82	
For Elevated Installation >10' To 15', Add	4.61	
For Elevated Installation >15' To 20', Add	9.21	
For Elevated Installation >20' To 25', Add	11.51	
For Elevated Installation >25' To 30', Add	16.12	
For Elevated Installation >30' To 35', Add	18.42	
For Elevated Installation >35' To 40', Add	23.03	
For Elevated Installation >40', Add	25.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.82	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0256	EA	3" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	80.99	31.84
			For Work In Restricted Working Space, Add	19.10	
			For Elevated Installation >10' To 15', Add	6.37	
			For Elevated Installation >15' To 20', Add	12.73	
			For Elevated Installation >20' To 25', Add	15.92	
			For Elevated Installation >25' To 30', Add	22.28	
			For Elevated Installation >30' To 35', Add	25.46	
			For Elevated Installation >35' To 40', Add	31.83	
			For Elevated Installation >40', Add	35.01	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.10	
26 05 33	13-0257	EA	1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	19.95	8.81
			For Work In Restricted Working Space, Add	5.28	
			For Elevated Installation >10' To 15', Add	1.76	
			For Elevated Installation >15' To 20', Add	3.52	
			For Elevated Installation >20' To 25', Add	4.40	
			For Elevated Installation >25' To 30', Add	6.16	
			For Elevated Installation >30' To 35', Add	7.04	
			For Elevated Installation >35' To 40', Add	8.81	
			For Elevated Installation >40', Add	9.69	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.28	
26 05 33	13-0258	EA	3/4" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	22.91	10.16
			For Work In Restricted Working Space, Add	6.09	
			For Elevated Installation >10' To 15', Add	2.03	
			For Elevated Installation >15' To 20', Add	4.06	
			For Elevated Installation >20' To 25', Add	5.08	
			For Elevated Installation >25' To 30', Add	7.11	
			For Elevated Installation >30' To 35', Add	8.12	
			For Elevated Installation >35' To 40', Add	10.16	
			For Elevated Installation >40', Add	11.17	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.09	
26 05 33	13-0259	EA	1" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	29.68	12.87
			For Work In Restricted Working Space, Add	7.72	
			For Elevated Installation >10' To 15', Add	2.57	
			For Elevated Installation >15' To 20', Add	5.15	
			For Elevated Installation >20' To 25', Add	6.43	
			For Elevated Installation >25' To 30', Add	9.01	
			For Elevated Installation >30' To 35', Add	10.29	
			For Elevated Installation >35' To 40', Add	12.87	
			For Elevated Installation >40', Add	14.15	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.72	
26 05 33	13-0260	EA	1-1/4" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	34.71	14.90
			For Work In Restricted Working Space, Add	8.94	
			For Elevated Installation >10' To 15', Add	2.98	
			For Elevated Installation >15' To 20', Add	5.96	
			For Elevated Installation >20' To 25', Add	7.45	
			For Elevated Installation >25' To 30', Add	10.43	
			For Elevated Installation >30' To 35', Add	11.92	
			For Elevated Installation >35' To 40', Add	14.90	
			For Elevated Installation >40', Add	16.39	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.94	
26 05 33	13-0261	EA	1-1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	39.90	16.94
			For Work In Restricted Working Space, Add	10.16	
			For Elevated Installation >10' To 15', Add	3.39	
			For Elevated Installation >15' To 20', Add	6.77	
			For Elevated Installation >20' To 25', Add	8.47	
			For Elevated Installation >25' To 30', Add	11.85	
			For Elevated Installation >30' To 35', Add	13.54	
			For Elevated Installation >35' To 40', Add	16.93	
			For Elevated Installation >40', Add	18.62	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	
26 05 33	13-0262	EA	2" x 3-1/2" Long, Rigid Galvanized Steel (RGS), Nipple.....	45.70	18.96
			For Work In Restricted Working Space, Add	11.38	
			For Elevated Installation >10' To 15', Add	3.79	
			For Elevated Installation >15' To 20', Add	7.58	
			For Elevated Installation >20' To 25', Add	9.48	
			For Elevated Installation >25' To 30', Add	13.27	
			For Elevated Installation >30' To 35', Add	15.17	
			For Elevated Installation >35' To 40', Add	18.96	
			For Elevated Installation >40', Add	20.86	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.38	
26 05 33	13-0263	EA	2-1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	62.71	23.03
			For Work In Restricted Working Space, Add	13.82	
			For Elevated Installation >10' To 15', Add	4.61	
			For Elevated Installation >15' To 20', Add	9.21	
			For Elevated Installation >20' To 25', Add	11.51	
			For Elevated Installation >25' To 30', Add	16.12	
			For Elevated Installation >30' To 35', Add	18.42	
			For Elevated Installation >35' To 40', Add	23.03	
			For Elevated Installation >40', Add	25.33	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.82	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0264	EA	3" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	83.21	31.84
		For Work In Restricted Working Space, Add	19.10	
		For Elevated Installation >10' To 15', Add	6.37	
		For Elevated Installation >15' To 20', Add	12.73	
		For Elevated Installation >20' To 25', Add	15.92	
		For Elevated Installation >25' To 30', Add	22.28	
		For Elevated Installation >30' To 35', Add	25.46	
		For Elevated Installation >35' To 40', Add	31.83	
		For Elevated Installation >40', Add	35.01	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.10	
26 05 33 13-0265	EA	1 1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	20.15	8.81
		For Work In Restricted Working Space, Add	5.28	
		For Elevated Installation >10' To 15', Add	1.76	
		For Elevated Installation >15' To 20', Add	3.52	
		For Elevated Installation >20' To 25', Add	4.40	
		For Elevated Installation >25' To 30', Add	6.16	
		For Elevated Installation >30' To 35', Add	7.04	
		For Elevated Installation >35' To 40', Add	8.81	
		For Elevated Installation >40', Add	9.69	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.28	
26 05 33 13-0266	EA	3/4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	23.27	10.16
		For Work In Restricted Working Space, Add	6.09	
		For Elevated Installation >10' To 15', Add	2.03	
		For Elevated Installation >15' To 20', Add	4.06	
		For Elevated Installation >20' To 25', Add	5.08	
		For Elevated Installation >25' To 30', Add	7.11	
		For Elevated Installation >30' To 35', Add	8.12	
		For Elevated Installation >35' To 40', Add	10.16	
		For Elevated Installation >40', Add	11.17	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.09	
26 05 33 13-0267	EA	1" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	29.96	12.87
		For Work In Restricted Working Space, Add	7.72	
		For Elevated Installation >10' To 15', Add	2.57	
		For Elevated Installation >15' To 20', Add	5.15	
		For Elevated Installation >20' To 25', Add	6.43	
		For Elevated Installation >25' To 30', Add	9.01	
		For Elevated Installation >30' To 35', Add	10.29	
		For Elevated Installation >35' To 40', Add	12.87	
		For Elevated Installation >40', Add	14.15	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.72	
26 05 33 13-0268	EA	1-1/4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	34.99	14.90
		For Work In Restricted Working Space, Add	8.94	
		For Elevated Installation >10' To 15', Add	2.98	
		For Elevated Installation >15' To 20', Add	5.96	
		For Elevated Installation >20' To 25', Add	7.45	
		For Elevated Installation >25' To 30', Add	10.43	
		For Elevated Installation >30' To 35', Add	11.92	
		For Elevated Installation >35' To 40', Add	14.90	
		For Elevated Installation >40', Add	16.39	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.94	
26 05 33 13-0269	EA	1-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	40.44	16.94
		For Work In Restricted Working Space, Add	10.16	
		For Elevated Installation >10' To 15', Add	3.39	
		For Elevated Installation >15' To 20', Add	6.77	
		For Elevated Installation >20' To 25', Add	8.47	
		For Elevated Installation >25' To 30', Add	11.85	
		For Elevated Installation >30' To 35', Add	13.54	
		For Elevated Installation >35' To 40', Add	16.93	
		For Elevated Installation >40', Add	18.62	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	
26 05 33 13-0270	EA	2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	46.50	18.96
		For Work In Restricted Working Space, Add	11.38	
		For Elevated Installation >10' To 15', Add	3.79	
		For Elevated Installation >15' To 20', Add	7.58	
		For Elevated Installation >20' To 25', Add	9.48	
		For Elevated Installation >25' To 30', Add	13.27	
		For Elevated Installation >30' To 35', Add	15.17	
		For Elevated Installation >35' To 40', Add	18.96	
		For Elevated Installation >40', Add	20.86	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.38	
26 05 33 13-0271	EA	2-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	63.50	23.03
		For Work In Restricted Working Space, Add	13.82	
		For Elevated Installation >10' To 15', Add	4.61	
		For Elevated Installation >15' To 20', Add	9.21	
		For Elevated Installation >20' To 25', Add	11.51	
		For Elevated Installation >25' To 30', Add	16.12	
		For Elevated Installation >30' To 35', Add	18.42	
		For Elevated Installation >35' To 40', Add	23.03	
		For Elevated Installation >40', Add	25.33	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0272 EA 3" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....	84.86	31.84
For Work In Restricted Working Space, Add	19.10	
For Elevated Installation >10' To 15', Add	6.37	
For Elevated Installation >15' To 20', Add	12.73	
For Elevated Installation >20' To 25', Add	15.92	
For Elevated Installation >25' To 30', Add	22.28	
For Elevated Installation >30' To 35', Add	25.46	
For Elevated Installation >35' To 40', Add	31.83	
For Elevated Installation >40', Add	35.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.10	
26 05 33 13-0273 EA 3-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....	97.59	35.89
For Work In Restricted Working Space, Add	21.54	
For Elevated Installation >10' To 15', Add	7.18	
For Elevated Installation >15' To 20', Add	14.36	
For Elevated Installation >20' To 25', Add	17.95	
For Elevated Installation >25' To 30', Add	25.13	
For Elevated Installation >30' To 35', Add	28.72	
For Elevated Installation >35' To 40', Add	35.90	
For Elevated Installation >40', Add	39.48	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.54	
26 05 33 13-0274 EA 4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....	122.42	46.73
For Work In Restricted Working Space, Add	28.04	
For Elevated Installation >10' To 15', Add	9.35	
For Elevated Installation >15' To 20', Add	18.69	
For Elevated Installation >20' To 25', Add	23.36	
For Elevated Installation >25' To 30', Add	32.71	
For Elevated Installation >30' To 35', Add	37.38	
For Elevated Installation >35' To 40', Add	46.73	
For Elevated Installation >40', Add	51.40	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.04	
26 05 33 13-0275 EA 1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	20.45	8.81
For Work In Restricted Working Space, Add	5.28	
For Elevated Installation >10' To 15', Add	1.76	
For Elevated Installation >15' To 20', Add	3.52	
For Elevated Installation >20' To 25', Add	4.40	
For Elevated Installation >25' To 30', Add	6.16	
For Elevated Installation >30' To 35', Add	7.04	
For Elevated Installation >35' To 40', Add	8.81	
For Elevated Installation >40', Add	9.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.28	
26 05 33 13-0276 EA 3/4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	23.71	10.16
For Work In Restricted Working Space, Add	6.09	
For Elevated Installation >10' To 15', Add	2.03	
For Elevated Installation >15' To 20', Add	4.06	
For Elevated Installation >20' To 25', Add	5.08	
For Elevated Installation >25' To 30', Add	7.11	
For Elevated Installation >30' To 35', Add	8.12	
For Elevated Installation >35' To 40', Add	10.16	
For Elevated Installation >40', Add	11.17	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.09	
26 05 33 13-0277 EA 1" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	30.53	12.87
For Work In Restricted Working Space, Add	7.72	
For Elevated Installation >10' To 15', Add	2.57	
For Elevated Installation >15' To 20', Add	5.15	
For Elevated Installation >20' To 25', Add	6.43	
For Elevated Installation >25' To 30', Add	9.01	
For Elevated Installation >30' To 35', Add	10.29	
For Elevated Installation >35' To 40', Add	12.87	
For Elevated Installation >40', Add	14.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.72	
26 05 33 13-0278 EA 1-1/4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	35.82	14.90
For Work In Restricted Working Space, Add	8.94	
For Elevated Installation >10' To 15', Add	2.98	
For Elevated Installation >15' To 20', Add	5.96	
For Elevated Installation >20' To 25', Add	7.45	
For Elevated Installation >25' To 30', Add	10.43	
For Elevated Installation >30' To 35', Add	11.92	
For Elevated Installation >35' To 40', Add	14.90	
For Elevated Installation >40', Add	16.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.94	
26 05 33 13-0279 EA 1-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	41.24	16.94
For Work In Restricted Working Space, Add	10.16	
For Elevated Installation >10' To 15', Add	3.39	
For Elevated Installation >15' To 20', Add	6.77	
For Elevated Installation >20' To 25', Add	8.47	
For Elevated Installation >25' To 30', Add	11.85	
For Elevated Installation >30' To 35', Add	13.54	
For Elevated Installation >35' To 40', Add	16.93	
For Elevated Installation >40', Add	18.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0280 EA 2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	47.94	18.96
For Work In Restricted Working Space, Add	11.38	
For Elevated Installation >10' To 15', Add	3.79	
For Elevated Installation >15' To 20', Add	7.58	
For Elevated Installation >20' To 25', Add	9.48	
For Elevated Installation >25' To 30', Add	13.27	
For Elevated Installation >30' To 35', Add	15.17	
For Elevated Installation >35' To 40', Add	18.96	
For Elevated Installation >40', Add	20.86	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.38	
26 05 33 13-0281 EA 2-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	66.68	23.03
For Work In Restricted Working Space, Add	13.82	
For Elevated Installation >10' To 15', Add	4.61	
For Elevated Installation >15' To 20', Add	9.21	
For Elevated Installation >20' To 25', Add	11.51	
For Elevated Installation >25' To 30', Add	16.12	
For Elevated Installation >30' To 35', Add	18.42	
For Elevated Installation >35' To 40', Add	23.03	
For Elevated Installation >40', Add	25.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.82	
26 05 33 13-0282 EA 3" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	88.30	31.84
For Work In Restricted Working Space, Add	19.10	
For Elevated Installation >10' To 15', Add	6.37	
For Elevated Installation >15' To 20', Add	12.73	
For Elevated Installation >20' To 25', Add	15.92	
For Elevated Installation >25' To 30', Add	22.28	
For Elevated Installation >30' To 35', Add	25.46	
For Elevated Installation >35' To 40', Add	31.83	
For Elevated Installation >40', Add	35.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.10	
26 05 33 13-0283 EA 3-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	101.01	35.89
For Work In Restricted Working Space, Add	21.54	
For Elevated Installation >10' To 15', Add	7.18	
For Elevated Installation >15' To 20', Add	14.36	
For Elevated Installation >20' To 25', Add	17.95	
For Elevated Installation >25' To 30', Add	25.13	
For Elevated Installation >30' To 35', Add	28.72	
For Elevated Installation >35' To 40', Add	35.90	
For Elevated Installation >40', Add	39.48	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.54	
26 05 33 13-0284 EA 4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	127.42	46.73
For Work In Restricted Working Space, Add	28.04	
For Elevated Installation >10' To 15', Add	9.35	
For Elevated Installation >15' To 20', Add	18.69	
For Elevated Installation >20' To 25', Add	23.36	
For Elevated Installation >25' To 30', Add	32.71	
For Elevated Installation >30' To 35', Add	37.38	
For Elevated Installation >35' To 40', Add	46.73	
For Elevated Installation >40', Add	51.40	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.04	
26 05 33 13-0285 EA 5" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	194.60	64.34
For Work In Restricted Working Space, Add	38.60	
For Elevated Installation >10' To 15', Add	12.87	
For Elevated Installation >15' To 20', Add	25.73	
For Elevated Installation >20' To 25', Add	32.17	
For Elevated Installation >25' To 30', Add	45.03	
For Elevated Installation >30' To 35', Add	51.47	
For Elevated Installation >35' To 40', Add	64.34	
For Elevated Installation >40', Add	70.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.60	
26 05 33 13-0286 EA 6" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	247.25	82.49
For Work In Restricted Working Space, Add	49.52	
For Elevated Installation >10' To 15', Add	16.51	
For Elevated Installation >15' To 20', Add	33.02	
For Elevated Installation >20' To 25', Add	41.27	
For Elevated Installation >25' To 30', Add	57.78	
For Elevated Installation >30' To 35', Add	66.03	
For Elevated Installation >35' To 40', Add	82.54	
For Elevated Installation >40', Add	90.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.52	
26 05 33 13-0287 EA 1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	21.00	8.81
For Work In Restricted Working Space, Add	5.28	
For Elevated Installation >10' To 15', Add	1.76	
For Elevated Installation >15' To 20', Add	3.52	
For Elevated Installation >20' To 25', Add	4.40	
For Elevated Installation >25' To 30', Add	6.16	
For Elevated Installation >30' To 35', Add	7.04	
For Elevated Installation >35' To 40', Add	8.81	
For Elevated Installation >40', Add	9.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.28	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0288	EA	3/4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	.....	24.27	10.16
		For Work In Restricted Working Space, Add		6.09	
		For Elevated Installation >10' To 15', Add		2.03	
		For Elevated Installation >15' To 20', Add		4.06	
		For Elevated Installation >20' To 25', Add		5.08	
		For Elevated Installation >25' To 30', Add		7.11	
		For Elevated Installation >30' To 35', Add		8.12	
		For Elevated Installation >35' To 40', Add		10.16	
		For Elevated Installation >40', Add		11.17	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		6.09	
26 05 33 13-0289	EA	1" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	.....	30.98	12.87
		For Work In Restricted Working Space, Add		7.72	
		For Elevated Installation >10' To 15', Add		2.57	
		For Elevated Installation >15' To 20', Add		5.15	
		For Elevated Installation >20' To 25', Add		6.43	
		For Elevated Installation >25' To 30', Add		9.01	
		For Elevated Installation >30' To 35', Add		10.29	
		For Elevated Installation >35' To 40', Add		12.87	
		For Elevated Installation >40', Add		14.15	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		7.72	
26 05 33 13-0290	EA	1-1/4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	.....	36.57	14.90
		For Work In Restricted Working Space, Add		8.94	
		For Elevated Installation >10' To 15', Add		2.98	
		For Elevated Installation >15' To 20', Add		5.96	
		For Elevated Installation >20' To 25', Add		7.45	
		For Elevated Installation >25' To 30', Add		10.43	
		For Elevated Installation >30' To 35', Add		11.92	
		For Elevated Installation >35' To 40', Add		14.90	
		For Elevated Installation >40', Add		16.39	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		8.94	
26 05 33 13-0291	EA	1-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	.....	42.93	16.94
		For Work In Restricted Working Space, Add		10.16	
		For Elevated Installation >10' To 15', Add		3.39	
		For Elevated Installation >15' To 20', Add		6.77	
		For Elevated Installation >20' To 25', Add		8.47	
		For Elevated Installation >25' To 30', Add		11.85	
		For Elevated Installation >30' To 35', Add		13.54	
		For Elevated Installation >35' To 40', Add		16.93	
		For Elevated Installation >40', Add		18.62	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		10.16	
26 05 33 13-0292	EA	2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	.....	49.37	18.96
		For Work In Restricted Working Space, Add		11.38	
		For Elevated Installation >10' To 15', Add		3.79	
		For Elevated Installation >15' To 20', Add		7.58	
		For Elevated Installation >20' To 25', Add		9.48	
		For Elevated Installation >25' To 30', Add		13.27	
		For Elevated Installation >30' To 35', Add		15.17	
		For Elevated Installation >35' To 40', Add		18.96	
		For Elevated Installation >40', Add		20.86	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		11.38	
26 05 33 13-0293	EA	2-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	.....	69.46	23.03
		For Work In Restricted Working Space, Add		13.82	
		For Elevated Installation >10' To 15', Add		4.61	
		For Elevated Installation >15' To 20', Add		9.21	
		For Elevated Installation >20' To 25', Add		11.51	
		For Elevated Installation >25' To 30', Add		16.12	
		For Elevated Installation >30' To 35', Add		18.42	
		For Elevated Installation >35' To 40', Add		23.03	
		For Elevated Installation >40', Add		25.33	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		13.82	
26 05 33 13-0294	EA	3" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	.....	91.80	31.84
		For Work In Restricted Working Space, Add		19.10	
		For Elevated Installation >10' To 15', Add		6.37	
		For Elevated Installation >15' To 20', Add		12.73	
		For Elevated Installation >20' To 25', Add		15.92	
		For Elevated Installation >25' To 30', Add		22.28	
		For Elevated Installation >30' To 35', Add		25.46	
		For Elevated Installation >35' To 40', Add		31.83	
		For Elevated Installation >40', Add		35.01	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		19.10	
26 05 33 13-0295	EA	3-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	.....	105.19	35.89
		For Work In Restricted Working Space, Add		21.54	
		For Elevated Installation >10' To 15', Add		7.18	
		For Elevated Installation >15' To 20', Add		14.36	
		For Elevated Installation >20' To 25', Add		17.95	
		For Elevated Installation >25' To 30', Add		25.13	
		For Elevated Installation >30' To 35', Add		28.72	
		For Elevated Installation >35' To 40', Add		35.90	
		For Elevated Installation >40', Add		39.48	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		21.54	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0296	EA	4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	131.38	46.73
		For Work In Restricted Working Space, Add	28.04	
		For Elevated Installation >10' To 15', Add	9.35	
		For Elevated Installation >15' To 20', Add	18.69	
		For Elevated Installation >20' To 25', Add	23.36	
		For Elevated Installation >25' To 30', Add	32.71	
		For Elevated Installation >30' To 35', Add	37.38	
		For Elevated Installation >35' To 40', Add	46.73	
		For Elevated Installation >40', Add	51.40	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.04	
26 05 33 13-0297	EA	5" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	200.41	64.34
		For Work In Restricted Working Space, Add	38.60	
		For Elevated Installation >10' To 15', Add	12.87	
		For Elevated Installation >15' To 20', Add	25.73	
		For Elevated Installation >20' To 25', Add	32.17	
		For Elevated Installation >25' To 30', Add	45.03	
		For Elevated Installation >30' To 35', Add	51.47	
		For Elevated Installation >35' To 40', Add	64.34	
		For Elevated Installation >40', Add	70.77	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.60	
26 05 33 13-0298	EA	6" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	255.75	82.49
		For Work In Restricted Working Space, Add	49.52	
		For Elevated Installation >10' To 15', Add	16.51	
		For Elevated Installation >15' To 20', Add	33.02	
		For Elevated Installation >20' To 25', Add	41.27	
		For Elevated Installation >25' To 30', Add	57.78	
		For Elevated Installation >30' To 35', Add	66.03	
		For Elevated Installation >35' To 40', Add	82.54	
		For Elevated Installation >40', Add	90.79	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.52	
26 05 33 13-0299	EA	1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	23.01	8.81
		For Work In Restricted Working Space, Add	5.28	
		For Elevated Installation >10' To 15', Add	1.76	
		For Elevated Installation >15' To 20', Add	3.52	
		For Elevated Installation >20' To 25', Add	4.40	
		For Elevated Installation >25' To 30', Add	6.16	
		For Elevated Installation >30' To 35', Add	7.04	
		For Elevated Installation >35' To 40', Add	8.81	
		For Elevated Installation >40', Add	9.69	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.28	
26 05 33 13-0300	EA	3/4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	26.85	10.16
		For Work In Restricted Working Space, Add	6.09	
		For Elevated Installation >10' To 15', Add	2.03	
		For Elevated Installation >15' To 20', Add	4.06	
		For Elevated Installation >20' To 25', Add	5.08	
		For Elevated Installation >25' To 30', Add	7.11	
		For Elevated Installation >30' To 35', Add	8.12	
		For Elevated Installation >35' To 40', Add	10.16	
		For Elevated Installation >40', Add	11.17	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.09	
26 05 33 13-0301	EA	1" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	34.01	12.87
		For Work In Restricted Working Space, Add	7.72	
		For Elevated Installation >10' To 15', Add	2.57	
		For Elevated Installation >15' To 20', Add	5.15	
		For Elevated Installation >20' To 25', Add	6.43	
		For Elevated Installation >25' To 30', Add	9.01	
		For Elevated Installation >30' To 35', Add	10.29	
		For Elevated Installation >35' To 40', Add	12.87	
		For Elevated Installation >40', Add	14.15	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.72	
26 05 33 13-0302	EA	1-1/4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	40.88	14.90
		For Work In Restricted Working Space, Add	8.94	
		For Elevated Installation >10' To 15', Add	2.98	
		For Elevated Installation >15' To 20', Add	5.96	
		For Elevated Installation >20' To 25', Add	7.45	
		For Elevated Installation >25' To 30', Add	10.43	
		For Elevated Installation >30' To 35', Add	11.92	
		For Elevated Installation >35' To 40', Add	14.90	
		For Elevated Installation >40', Add	16.39	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.94	
26 05 33 13-0303	EA	1-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	47.74	16.94
		For Work In Restricted Working Space, Add	10.16	
		For Elevated Installation >10' To 15', Add	3.39	
		For Elevated Installation >15' To 20', Add	6.77	
		For Elevated Installation >20' To 25', Add	8.47	
		For Elevated Installation >25' To 30', Add	11.85	
		For Elevated Installation >30' To 35', Add	13.54	
		For Elevated Installation >35' To 40', Add	16.93	
		For Elevated Installation >40', Add	18.62	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0304	EA	2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	54.44	18.96
			For Work In Restricted Working Space, Add	11.38	
			For Elevated Installation >10' To 15', Add	3.79	
			For Elevated Installation >15' To 20', Add	7.58	
			For Elevated Installation >20' To 25', Add	9.48	
			For Elevated Installation >25' To 30', Add	13.27	
			For Elevated Installation >30' To 35', Add	15.17	
			For Elevated Installation >35' To 40', Add	18.96	
			For Elevated Installation >40', Add	20.86	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.38	
26 05 33	13-0305	EA	2-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	76.84	23.03
			For Work In Restricted Working Space, Add	13.82	
			For Elevated Installation >10' To 15', Add	4.61	
			For Elevated Installation >15' To 20', Add	9.21	
			For Elevated Installation >20' To 25', Add	11.51	
			For Elevated Installation >25' To 30', Add	16.12	
			For Elevated Installation >30' To 35', Add	18.42	
			For Elevated Installation >35' To 40', Add	23.03	
			For Elevated Installation >40', Add	25.33	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.82	
26 05 33	13-0306	EA	3" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	100.28	31.84
			For Work In Restricted Working Space, Add	19.10	
			For Elevated Installation >10' To 15', Add	6.37	
			For Elevated Installation >15' To 20', Add	12.73	
			For Elevated Installation >20' To 25', Add	15.92	
			For Elevated Installation >25' To 30', Add	22.28	
			For Elevated Installation >30' To 35', Add	25.46	
			For Elevated Installation >35' To 40', Add	31.83	
			For Elevated Installation >40', Add	35.01	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.10	
26 05 33	13-0307	EA	3-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	113.64	35.89
			For Work In Restricted Working Space, Add	21.54	
			For Elevated Installation >10' To 15', Add	7.18	
			For Elevated Installation >15' To 20', Add	14.36	
			For Elevated Installation >20' To 25', Add	17.95	
			For Elevated Installation >25' To 30', Add	25.13	
			For Elevated Installation >30' To 35', Add	28.72	
			For Elevated Installation >35' To 40', Add	35.90	
			For Elevated Installation >40', Add	39.48	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.54	
26 05 33	13-0308	EA	4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	140.72	46.73
			For Work In Restricted Working Space, Add	28.04	
			For Elevated Installation >10' To 15', Add	9.35	
			For Elevated Installation >15' To 20', Add	18.69	
			For Elevated Installation >20' To 25', Add	23.36	
			For Elevated Installation >25' To 30', Add	32.71	
			For Elevated Installation >30' To 35', Add	37.38	
			For Elevated Installation >35' To 40', Add	46.73	
			For Elevated Installation >40', Add	51.40	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.04	
26 05 33	13-0309	EA	5" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	213.88	64.34
			For Work In Restricted Working Space, Add	38.60	
			For Elevated Installation >10' To 15', Add	12.87	
			For Elevated Installation >15' To 20', Add	25.73	
			For Elevated Installation >20' To 25', Add	32.17	
			For Elevated Installation >25' To 30', Add	45.03	
			For Elevated Installation >30' To 35', Add	51.47	
			For Elevated Installation >35' To 40', Add	64.34	
			For Elevated Installation >40', Add	70.77	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.60	
26 05 33	13-0310	EA	6" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	270.88	82.49
			For Work In Restricted Working Space, Add	49.52	
			For Elevated Installation >10' To 15', Add	16.51	
			For Elevated Installation >15' To 20', Add	33.02	
			For Elevated Installation >20' To 25', Add	41.27	
			For Elevated Installation >25' To 30', Add	57.78	
			For Elevated Installation >30' To 35', Add	66.03	
			For Elevated Installation >35' To 40', Add	82.54	
			For Elevated Installation >40', Add	90.79	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.52	
26 05 33	13-0311	EA	1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	24.37	8.81
			For Work In Restricted Working Space, Add	5.28	
			For Elevated Installation >10' To 15', Add	1.76	
			For Elevated Installation >15' To 20', Add	3.52	
			For Elevated Installation >20' To 25', Add	4.40	
			For Elevated Installation >25' To 30', Add	6.16	
			For Elevated Installation >30' To 35', Add	7.04	
			For Elevated Installation >35' To 40', Add	8.81	
			For Elevated Installation >40', Add	9.69	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.28	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0312	EA	3/4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	28.16	10.16
		For Work In Restricted Working Space, Add	6.09	
		For Elevated Installation >10' To 15', Add	2.03	
		For Elevated Installation >15' To 20', Add	4.06	
		For Elevated Installation >20' To 25', Add	5.08	
		For Elevated Installation >25' To 30', Add	7.11	
		For Elevated Installation >30' To 35', Add	8.12	
		For Elevated Installation >35' To 40', Add	10.16	
		For Elevated Installation >40', Add	11.17	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.09	
26 05 33 13-0313	EA	1" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	36.41	12.87
		For Work In Restricted Working Space, Add	7.72	
		For Elevated Installation >10' To 15', Add	2.57	
		For Elevated Installation >15' To 20', Add	5.15	
		For Elevated Installation >20' To 25', Add	6.43	
		For Elevated Installation >25' To 30', Add	9.01	
		For Elevated Installation >30' To 35', Add	10.29	
		For Elevated Installation >35' To 40', Add	12.87	
		For Elevated Installation >40', Add	14.15	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.72	
26 05 33 13-0314	EA	1-1/4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	43.75	14.90
		For Work In Restricted Working Space, Add	8.94	
		For Elevated Installation >10' To 15', Add	2.98	
		For Elevated Installation >15' To 20', Add	5.96	
		For Elevated Installation >20' To 25', Add	7.45	
		For Elevated Installation >25' To 30', Add	10.43	
		For Elevated Installation >30' To 35', Add	11.92	
		For Elevated Installation >35' To 40', Add	14.90	
		For Elevated Installation >40', Add	16.39	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.94	
26 05 33 13-0315	EA	1-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	50.56	16.94
		For Work In Restricted Working Space, Add	10.16	
		For Elevated Installation >10' To 15', Add	3.39	
		For Elevated Installation >15' To 20', Add	6.77	
		For Elevated Installation >20' To 25', Add	8.47	
		For Elevated Installation >25' To 30', Add	11.85	
		For Elevated Installation >30' To 35', Add	13.54	
		For Elevated Installation >35' To 40', Add	16.93	
		For Elevated Installation >40', Add	18.62	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	
26 05 33 13-0316	EA	2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	57.71	18.96
		For Work In Restricted Working Space, Add	11.38	
		For Elevated Installation >10' To 15', Add	3.79	
		For Elevated Installation >15' To 20', Add	7.58	
		For Elevated Installation >20' To 25', Add	9.48	
		For Elevated Installation >25' To 30', Add	13.27	
		For Elevated Installation >30' To 35', Add	15.17	
		For Elevated Installation >35' To 40', Add	18.96	
		For Elevated Installation >40', Add	20.86	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.38	
26 05 33 13-0317	EA	2-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	81.80	23.03
		For Work In Restricted Working Space, Add	13.82	
		For Elevated Installation >10' To 15', Add	4.61	
		For Elevated Installation >15' To 20', Add	9.21	
		For Elevated Installation >20' To 25', Add	11.51	
		For Elevated Installation >25' To 30', Add	16.12	
		For Elevated Installation >30' To 35', Add	18.42	
		For Elevated Installation >35' To 40', Add	23.03	
		For Elevated Installation >40', Add	25.33	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.82	
26 05 33 13-0318	EA	3" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	106.93	31.84
		For Work In Restricted Working Space, Add	19.10	
		For Elevated Installation >10' To 15', Add	6.37	
		For Elevated Installation >15' To 20', Add	12.73	
		For Elevated Installation >20' To 25', Add	15.92	
		For Elevated Installation >25' To 30', Add	22.28	
		For Elevated Installation >30' To 35', Add	25.46	
		For Elevated Installation >35' To 40', Add	31.83	
		For Elevated Installation >40', Add	35.01	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.10	
26 05 33 13-0319	EA	3-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	122.41	35.89
		For Work In Restricted Working Space, Add	21.54	
		For Elevated Installation >10' To 15', Add	7.18	
		For Elevated Installation >15' To 20', Add	14.36	
		For Elevated Installation >20' To 25', Add	17.95	
		For Elevated Installation >25' To 30', Add	25.13	
		For Elevated Installation >30' To 35', Add	28.72	
		For Elevated Installation >35' To 40', Add	35.90	
		For Elevated Installation >40', Add	39.48	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.54	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0320	EA	4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	151.84	46.73
			For Work In Restricted Working Space, Add	28.04	
			For Elevated Installation >10' To 15', Add	9.35	
			For Elevated Installation >15' To 20', Add	18.69	
			For Elevated Installation >20' To 25', Add	23.36	
			For Elevated Installation >25' To 30', Add	32.71	
			For Elevated Installation >30' To 35', Add	37.38	
			For Elevated Installation >35' To 40', Add	46.73	
			For Elevated Installation >40', Add	51.40	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.04	
26 05 33	13-0321	EA	5" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	228.57	64.34
			For Work In Restricted Working Space, Add	38.60	
			For Elevated Installation >10' To 15', Add	12.87	
			For Elevated Installation >15' To 20', Add	25.73	
			For Elevated Installation >20' To 25', Add	32.17	
			For Elevated Installation >25' To 30', Add	45.03	
			For Elevated Installation >30' To 35', Add	51.47	
			For Elevated Installation >35' To 40', Add	64.34	
			For Elevated Installation >40', Add	70.77	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.60	
26 05 33	13-0322	EA	6" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	297.30	82.49
			For Work In Restricted Working Space, Add	49.52	
			For Elevated Installation >10' To 15', Add	16.51	
			For Elevated Installation >15' To 20', Add	33.02	
			For Elevated Installation >20' To 25', Add	41.27	
			For Elevated Installation >25' To 30', Add	57.78	
			For Elevated Installation >30' To 35', Add	66.03	
			For Elevated Installation >35' To 40', Add	82.54	
			For Elevated Installation >40', Add	90.79	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.52	
26 05 33	13-0323	EA	1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	25.40	8.81
			For Work In Restricted Working Space, Add	5.28	
			For Elevated Installation >10' To 15', Add	1.76	
			For Elevated Installation >15' To 20', Add	3.52	
			For Elevated Installation >20' To 25', Add	4.40	
			For Elevated Installation >25' To 30', Add	6.16	
			For Elevated Installation >30' To 35', Add	7.04	
			For Elevated Installation >35' To 40', Add	8.81	
			For Elevated Installation >40', Add	9.69	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.28	
26 05 33	13-0324	EA	3/4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	29.13	10.16
			For Work In Restricted Working Space, Add	6.09	
			For Elevated Installation >10' To 15', Add	2.03	
			For Elevated Installation >15' To 20', Add	4.06	
			For Elevated Installation >20' To 25', Add	5.08	
			For Elevated Installation >25' To 30', Add	7.11	
			For Elevated Installation >30' To 35', Add	8.12	
			For Elevated Installation >35' To 40', Add	10.16	
			For Elevated Installation >40', Add	11.17	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.09	
26 05 33	13-0325	EA	1" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	37.86	12.87
			For Work In Restricted Working Space, Add	7.72	
			For Elevated Installation >10' To 15', Add	2.57	
			For Elevated Installation >15' To 20', Add	5.15	
			For Elevated Installation >20' To 25', Add	6.43	
			For Elevated Installation >25' To 30', Add	9.01	
			For Elevated Installation >30' To 35', Add	10.29	
			For Elevated Installation >35' To 40', Add	12.87	
			For Elevated Installation >40', Add	14.15	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.72	
26 05 33	13-0326	EA	1-1/4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	46.04	14.90
			For Work In Restricted Working Space, Add	8.94	
			For Elevated Installation >10' To 15', Add	2.98	
			For Elevated Installation >15' To 20', Add	5.96	
			For Elevated Installation >20' To 25', Add	7.45	
			For Elevated Installation >25' To 30', Add	10.43	
			For Elevated Installation >30' To 35', Add	11.92	
			For Elevated Installation >35' To 40', Add	14.90	
			For Elevated Installation >40', Add	16.39	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.94	
26 05 33	13-0327	EA	1-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	51.97	16.94
			For Work In Restricted Working Space, Add	10.16	
			For Elevated Installation >10' To 15', Add	3.39	
			For Elevated Installation >15' To 20', Add	6.77	
			For Elevated Installation >20' To 25', Add	8.47	
			For Elevated Installation >25' To 30', Add	11.85	
			For Elevated Installation >30' To 35', Add	13.54	
			For Elevated Installation >35' To 40', Add	16.93	
			For Elevated Installation >40', Add	18.62	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0328	EA	2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	60.45	18.96
		For Work In Restricted Working Space, Add	11.38	
		For Elevated Installation >10' To 15', Add	3.79	
		For Elevated Installation >15' To 20', Add	7.58	
		For Elevated Installation >20' To 25', Add	9.48	
		For Elevated Installation >25' To 30', Add	13.27	
		For Elevated Installation >30' To 35', Add	15.17	
		For Elevated Installation >35' To 40', Add	18.96	
		For Elevated Installation >40', Add	20.86	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.38	
26 05 33 13-0329	EA	2-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	87.64	23.03
		For Work In Restricted Working Space, Add	13.82	
		For Elevated Installation >10' To 15', Add	4.61	
		For Elevated Installation >15' To 20', Add	9.21	
		For Elevated Installation >20' To 25', Add	11.51	
		For Elevated Installation >25' To 30', Add	16.12	
		For Elevated Installation >30' To 35', Add	18.42	
		For Elevated Installation >35' To 40', Add	23.03	
		For Elevated Installation >40', Add	25.33	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.82	
26 05 33 13-0330	EA	3" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	116.20	31.84
		For Work In Restricted Working Space, Add	19.10	
		For Elevated Installation >10' To 15', Add	6.37	
		For Elevated Installation >15' To 20', Add	12.73	
		For Elevated Installation >20' To 25', Add	15.92	
		For Elevated Installation >25' To 30', Add	22.28	
		For Elevated Installation >30' To 35', Add	25.46	
		For Elevated Installation >35' To 40', Add	31.83	
		For Elevated Installation >40', Add	35.01	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.10	
26 05 33 13-0331	EA	3-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	130.96	35.89
		For Work In Restricted Working Space, Add	21.54	
		For Elevated Installation >10' To 15', Add	7.18	
		For Elevated Installation >15' To 20', Add	14.36	
		For Elevated Installation >20' To 25', Add	17.95	
		For Elevated Installation >25' To 30', Add	25.13	
		For Elevated Installation >30' To 35', Add	28.72	
		For Elevated Installation >35' To 40', Add	35.90	
		For Elevated Installation >40', Add	39.48	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.54	
26 05 33 13-0332	EA	4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	162.96	46.73
		For Work In Restricted Working Space, Add	28.04	
		For Elevated Installation >10' To 15', Add	9.35	
		For Elevated Installation >15' To 20', Add	18.69	
		For Elevated Installation >20' To 25', Add	23.36	
		For Elevated Installation >25' To 30', Add	32.71	
		For Elevated Installation >30' To 35', Add	37.38	
		For Elevated Installation >35' To 40', Add	46.73	
		For Elevated Installation >40', Add	51.40	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.04	
26 05 33 13-0333	EA	5" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	249.68	64.34
		For Work In Restricted Working Space, Add	38.60	
		For Elevated Installation >10' To 15', Add	12.87	
		For Elevated Installation >15' To 20', Add	25.73	
		For Elevated Installation >20' To 25', Add	32.17	
		For Elevated Installation >25' To 30', Add	45.03	
		For Elevated Installation >30' To 35', Add	51.47	
		For Elevated Installation >35' To 40', Add	64.34	
		For Elevated Installation >40', Add	70.77	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.60	
26 05 33 13-0334	EA	6" x 12" Long, Rigid Galvanized Steel (RGS) Nipple	311.99	82.49
		For Work In Restricted Working Space, Add	49.52	
		For Elevated Installation >10' To 15', Add	16.51	
		For Elevated Installation >15' To 20', Add	33.02	
		For Elevated Installation >20' To 25', Add	41.27	
		For Elevated Installation >25' To 30', Add	57.78	
		For Elevated Installation >30' To 35', Add	66.03	
		For Elevated Installation >35' To 40', Add	82.54	
		For Elevated Installation >40', Add	90.79	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.52	
26 05 33 13-0335		Rigid Galvanized Steel (RGS) Off-Set Nipples (26 05 33 13-0059)		
26 05 33 13-0336	EA	1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple	20.41	7.04
		For Work In Restricted Working Space, Add	5.33	
		For Elevated Installation >10' To 15', Add	1.78	
		For Elevated Installation >15' To 20', Add	3.55	
		For Elevated Installation >20' To 25', Add	4.44	
		For Elevated Installation >25' To 30', Add	6.21	
		For Elevated Installation >30' To 35', Add	7.10	
		For Elevated Installation >35' To 40', Add	8.88	
		For Elevated Installation >40', Add	9.76	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.33	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0337	EA	3/4" Rigid Galvanized Steel (RGS) Off-Set Nipple.....	24.27	8.13
		For Work In Restricted Working Space, Add	6.06	
		For Elevated Installation >10' To 15', Add	2.02	
		For Elevated Installation >15' To 20', Add	4.04	
		For Elevated Installation >20' To 25', Add	5.05	
		For Elevated Installation >25' To 30', Add	7.07	
		For Elevated Installation >30' To 35', Add	8.08	
		For Elevated Installation >35' To 40', Add	10.10	
		For Elevated Installation >40', Add	11.11	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.06	
26 05 33 13-0338	EA	1" Rigid Galvanized Steel (RGS) Off-Set Nipple.....	30.49	10.29
		For Work In Restricted Working Space, Add	7.75	
		For Elevated Installation >10' To 15', Add	2.58	
		For Elevated Installation >15' To 20', Add	5.17	
		For Elevated Installation >20' To 25', Add	6.46	
		For Elevated Installation >25' To 30', Add	9.04	
		For Elevated Installation >30' To 35', Add	10.34	
		For Elevated Installation >35' To 40', Add	12.92	
		For Elevated Installation >40', Add	14.21	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.75	
26 05 33 13-0339	EA	1-1/4" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	38.46	12.33
		For Work In Restricted Working Space, Add	9.29	
		For Elevated Installation >10' To 15', Add	3.10	
		For Elevated Installation >15' To 20', Add	6.19	
		For Elevated Installation >20' To 25', Add	7.74	
		For Elevated Installation >25' To 30', Add	10.84	
		For Elevated Installation >30' To 35', Add	12.38	
		For Elevated Installation >35' To 40', Add	15.48	
		For Elevated Installation >40', Add	17.03	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.29	
26 05 33 13-0340	EA	1-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	42.12	13.55
		For Work In Restricted Working Space, Add	10.17	
		For Elevated Installation >10' To 15', Add	3.39	
		For Elevated Installation >15' To 20', Add	6.78	
		For Elevated Installation >20' To 25', Add	8.47	
		For Elevated Installation >25' To 30', Add	11.86	
		For Elevated Installation >30' To 35', Add	13.56	
		For Elevated Installation >35' To 40', Add	16.95	
		For Elevated Installation >40', Add	18.64	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.17	
26 05 33 13-0341	EA	2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	54.82	16.66
		For Work In Restricted Working Space, Add	12.53	
		For Elevated Installation >10' To 15', Add	4.18	
		For Elevated Installation >15' To 20', Add	8.35	
		For Elevated Installation >20' To 25', Add	10.44	
		For Elevated Installation >25' To 30', Add	14.61	
		For Elevated Installation >30' To 35', Add	16.70	
		For Elevated Installation >35' To 40', Add	20.88	
		For Elevated Installation >40', Add	22.96	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.53	
26 05 33 13-0342	EA	2-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	89.50	27.09
		For Work In Restricted Working Space, Add	20.32	
		For Elevated Installation >10' To 15', Add	6.77	
		For Elevated Installation >15' To 20', Add	13.54	
		For Elevated Installation >20' To 25', Add	16.93	
		For Elevated Installation >25' To 30', Add	23.70	
		For Elevated Installation >30' To 35', Add	27.09	
		For Elevated Installation >35' To 40', Add	33.86	
		For Elevated Installation >40', Add	37.25	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.32	
26 05 33 13-0343	EA	3" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	142.94	37.39
		For Work In Restricted Working Space, Add	28.04	
		For Elevated Installation >10' To 15', Add	9.35	
		For Elevated Installation >15' To 20', Add	18.69	
		For Elevated Installation >20' To 25', Add	23.37	
		For Elevated Installation >25' To 30', Add	32.71	
		For Elevated Installation >30' To 35', Add	37.38	
		For Elevated Installation >35' To 40', Add	46.73	
		For Elevated Installation >40', Add	51.40	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.04	
26 05 33 13-0344	EA	3-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	176.60	44.16
		For Work In Restricted Working Space, Add	32.94	
		For Elevated Installation >10' To 15', Add	10.98	
		For Elevated Installation >15' To 20', Add	21.96	
		For Elevated Installation >20' To 25', Add	27.45	
		For Elevated Installation >25' To 30', Add	38.43	
		For Elevated Installation >30' To 35', Add	43.92	
		For Elevated Installation >35' To 40', Add	54.90	
		For Elevated Installation >40', Add	60.38	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.94	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0345 EA 4" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated	211.38	50.93
For Work In Restricted Working Space, Add	38.20	
For Elevated Installation >10' To 15', Add	12.73	
For Elevated Installation >15' To 20', Add	25.47	
For Elevated Installation >20' To 25', Add	31.84	
For Elevated Installation >25' To 30', Add	44.57	
For Elevated Installation >30' To 35', Add	50.94	
For Elevated Installation >35' To 40', Add	63.67	
For Elevated Installation >40', Add	70.04	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.20	
26 05 33 13-0346 Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (26 05 33 13-0059)		
Note: Erickson fittings.		
26 05 33 13-0347 EA 1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	56.88	21.67
For Work In Restricted Working Space, Add	16.27	
For Elevated Installation >10' To 15', Add	5.42	
For Elevated Installation >15' To 20', Add	10.85	
For Elevated Installation >20' To 25', Add	13.56	
For Elevated Installation >25' To 30', Add	18.98	
For Elevated Installation >30' To 35', Add	21.70	
For Elevated Installation >35' To 40', Add	27.12	
For Elevated Installation >40', Add	29.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.27	
26 05 33 13-0348 EA 3/4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	63.93	24.25
For Work In Restricted Working Space, Add	18.16	
For Elevated Installation >10' To 15', Add	6.05	
For Elevated Installation >15' To 20', Add	12.11	
For Elevated Installation >20' To 25', Add	15.14	
For Elevated Installation >25' To 30', Add	21.19	
For Elevated Installation >30' To 35', Add	24.22	
For Elevated Installation >35' To 40', Add	30.27	
For Elevated Installation >40', Add	33.30	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.16	
26 05 33 13-0349 EA 1" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	73.70	26.96
For Work In Restricted Working Space, Add	20.23	
For Elevated Installation >10' To 15', Add	6.74	
For Elevated Installation >15' To 20', Add	13.49	
For Elevated Installation >20' To 25', Add	16.86	
For Elevated Installation >25' To 30', Add	23.60	
For Elevated Installation >30' To 35', Add	26.98	
For Elevated Installation >35' To 40', Add	33.72	
For Elevated Installation >40', Add	37.09	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.23	
26 05 33 13-0350 EA 1-1/4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	87.14	29.53
For Work In Restricted Working Space, Add	22.14	
For Elevated Installation >10' To 15', Add	7.38	
For Elevated Installation >15' To 20', Add	14.76	
For Elevated Installation >20' To 25', Add	18.45	
For Elevated Installation >25' To 30', Add	25.83	
For Elevated Installation >30' To 35', Add	29.52	
For Elevated Installation >35' To 40', Add	36.90	
For Elevated Installation >40', Add	40.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.14	
26 05 33 13-0351 EA 1-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	96.73	32.24
For Work In Restricted Working Space, Add	24.22	
For Elevated Installation >10' To 15', Add	8.07	
For Elevated Installation >15' To 20', Add	16.15	
For Elevated Installation >20' To 25', Add	20.19	
For Elevated Installation >25' To 30', Add	28.26	
For Elevated Installation >30' To 35', Add	32.30	
For Elevated Installation >35' To 40', Add	40.37	
For Elevated Installation >40', Add	44.41	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.22	
26 05 33 13-0352 EA 2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	119.46	34.94
For Work In Restricted Working Space, Add	26.23	
For Elevated Installation >10' To 15', Add	8.74	
For Elevated Installation >15' To 20', Add	17.49	
For Elevated Installation >20' To 25', Add	21.86	
For Elevated Installation >25' To 30', Add	30.60	
For Elevated Installation >30' To 35', Add	34.98	
For Elevated Installation >35' To 40', Add	43.72	
For Elevated Installation >40', Add	48.09	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.23	
26 05 33 13-0353 EA 2-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	182.54	43.34
For Work In Restricted Working Space, Add	32.51	
For Elevated Installation >10' To 15', Add	10.84	
For Elevated Installation >15' To 20', Add	21.67	
For Elevated Installation >20' To 25', Add	27.09	
For Elevated Installation >25' To 30', Add	37.93	
For Elevated Installation >30' To 35', Add	43.34	
For Elevated Installation >35' To 40', Add	54.18	
For Elevated Installation >40', Add	59.60	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0354	EA		3" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	248.04	54.18
			For Work In Restricted Working Space, Add	40.64	
			For Elevated Installation >10' To 15', Add	13.55	
			For Elevated Installation >15' To 20', Add	27.09	
			For Elevated Installation >20' To 25', Add	33.86	
			For Elevated Installation >25' To 30', Add	47.41	
			For Elevated Installation >30' To 35', Add	54.18	
			For Elevated Installation >35' To 40', Add	67.73	
			For Elevated Installation >40', Add	74.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.64	
26 05 33 13-0355	EA		3-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	350.13	65.02
			For Work In Restricted Working Space, Add	48.78	
			For Elevated Installation >10' To 15', Add	16.26	
			For Elevated Installation >15' To 20', Add	32.52	
			For Elevated Installation >20' To 25', Add	40.65	
			For Elevated Installation >25' To 30', Add	56.91	
			For Elevated Installation >30' To 35', Add	65.04	
			For Elevated Installation >35' To 40', Add	81.30	
			For Elevated Installation >40', Add	89.43	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.78	
26 05 33 13-0356	EA		4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	396.61	70.44
			For Work In Restricted Working Space, Add	52.82	
			For Elevated Installation >10' To 15', Add	17.61	
			For Elevated Installation >15' To 20', Add	35.21	
			For Elevated Installation >20' To 25', Add	44.02	
			For Elevated Installation >25' To 30', Add	61.62	
			For Elevated Installation >30' To 35', Add	70.43	
			For Elevated Installation >35' To 40', Add	88.04	
			For Elevated Installation >40', Add	96.84	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.82	
26 05 33 13-0357	EA		5" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	669.32	86.69
			For Work In Restricted Working Space, Add	65.01	
			For Elevated Installation >10' To 15', Add	21.67	
			For Elevated Installation >15' To 20', Add	43.34	
			For Elevated Installation >20' To 25', Add	54.18	
			For Elevated Installation >25' To 30', Add	75.85	
			For Elevated Installation >30' To 35', Add	86.68	
			For Elevated Installation >35' To 40', Add	108.35	
			For Elevated Installation >40', Add	119.19	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.01	
26 05 33 13-0358	EA		6" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson)	853.86	100.24
			For Work In Restricted Working Space, Add	75.17	
			For Elevated Installation >10' To 15', Add	25.06	
			For Elevated Installation >15' To 20', Add	50.11	
			For Elevated Installation >20' To 25', Add	62.64	
			For Elevated Installation >25' To 30', Add	87.70	
			For Elevated Installation >30' To 35', Add	100.22	
			For Elevated Installation >35' To 40', Add	125.28	
			For Elevated Installation >40', Add	137.81	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.17	
26 05 33 13-0359			Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connectors (26 05 33 13-0059)		
26 05 33 13-0360	EA		1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	34.23	10.83
			For Work In Restricted Working Space, Add	8.13	
			For Elevated Installation >10' To 15', Add	2.71	
			For Elevated Installation >15' To 20', Add	5.42	
			For Elevated Installation >20' To 25', Add	6.77	
			For Elevated Installation >25' To 30', Add	9.48	
			For Elevated Installation >30' To 35', Add	10.84	
			For Elevated Installation >35' To 40', Add	13.55	
			For Elevated Installation >40', Add	14.90	
26 05 33 13-0361	EA		3/4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	38.24	11.92
			For Work In Restricted Working Space, Add	8.94	
			For Elevated Installation >10' To 15', Add	2.98	
			For Elevated Installation >15' To 20', Add	5.96	
			For Elevated Installation >20' To 25', Add	7.45	
			For Elevated Installation >25' To 30', Add	10.43	
			For Elevated Installation >30' To 35', Add	11.92	
			For Elevated Installation >35' To 40', Add	14.90	
			For Elevated Installation >40', Add	16.39	
26 05 33 13-0362	EA		1" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector	43.92	13.55
			For Work In Restricted Working Space, Add	10.16	
			For Elevated Installation >10' To 15', Add	3.39	
			For Elevated Installation >15' To 20', Add	6.77	
			For Elevated Installation >20' To 25', Add	8.47	
			For Elevated Installation >25' To 30', Add	11.85	
			For Elevated Installation >30' To 35', Add	13.55	
			For Elevated Installation >35' To 40', Add	16.94	
			For Elevated Installation >40', Add	18.63	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0363 EA 1-1/4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector 49.84		14.63
For Work In Restricted Working Space, Add	10.97	
For Elevated Installation >10' To 15', Add	3.66	
For Elevated Installation >15' To 20', Add	7.31	
For Elevated Installation >20' To 25', Add	9.14	
For Elevated Installation >25' To 30', Add	12.80	
For Elevated Installation >30' To 35', Add	14.63	
For Elevated Installation >35' To 40', Add	18.29	
For Elevated Installation >40', Add	20.11	
26 05 33 13-0364 EA 1-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector 59.12		16.25
For Work In Restricted Working Space, Add	12.19	
For Elevated Installation >10' To 15', Add	4.06	
For Elevated Installation >15' To 20', Add	8.13	
For Elevated Installation >20' To 25', Add	10.16	
For Elevated Installation >25' To 30', Add	14.22	
For Elevated Installation >30' To 35', Add	16.25	
For Elevated Installation >35' To 40', Add	20.32	
For Elevated Installation >40', Add	22.35	
26 05 33 13-0365 EA 2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector 72.04		17.88
For Work In Restricted Working Space, Add	13.41	
For Elevated Installation >10' To 15', Add	4.47	
For Elevated Installation >15' To 20', Add	8.94	
For Elevated Installation >20' To 25', Add	11.18	
For Elevated Installation >25' To 30', Add	15.65	
For Elevated Installation >30' To 35', Add	17.88	
For Elevated Installation >35' To 40', Add	22.35	
For Elevated Installation >40', Add	24.59	
26 05 33 13-0366 EA 2-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector 98.00		21.67
For Work In Restricted Working Space, Add	16.25	
For Elevated Installation >10' To 15', Add	5.42	
For Elevated Installation >15' To 20', Add	10.84	
For Elevated Installation >20' To 25', Add	13.55	
For Elevated Installation >25' To 30', Add	18.96	
For Elevated Installation >30' To 35', Add	21.67	
For Elevated Installation >35' To 40', Add	27.09	
For Elevated Installation >40', Add	29.80	
26 05 33 13-0367 EA 3" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector 121.19		27.09
For Work In Restricted Working Space, Add	20.32	
For Elevated Installation >10' To 15', Add	6.77	
For Elevated Installation >15' To 20', Add	13.55	
For Elevated Installation >20' To 25', Add	16.93	
For Elevated Installation >25' To 30', Add	23.71	
For Elevated Installation >30' To 35', Add	27.09	
For Elevated Installation >35' To 40', Add	33.87	
For Elevated Installation >40', Add	37.25	
26 05 33 13-0368 EA 3-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector 145.59		32.51
For Work In Restricted Working Space, Add	24.38	
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.51	
For Elevated Installation >35' To 40', Add	40.64	
For Elevated Installation >40', Add	44.70	
26 05 33 13-0369 EA 4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector 164.42		35.21
For Work In Restricted Working Space, Add	26.41	
For Elevated Installation >10' To 15', Add	8.80	
For Elevated Installation >15' To 20', Add	17.61	
For Elevated Installation >20' To 25', Add	22.01	
For Elevated Installation >25' To 30', Add	30.81	
For Elevated Installation >30' To 35', Add	35.22	
For Elevated Installation >35' To 40', Add	44.02	
For Elevated Installation >40', Add	48.42	
26 05 33 13-0370 Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs (26 05 33 13-0059)		
26 05 33 13-0371 EA 1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs 29.04		12.20
For Work In Restricted Working Space, Add	7.31	
For Elevated Installation >10' To 15', Add	2.44	
For Elevated Installation >15' To 20', Add	4.88	
For Elevated Installation >20' To 25', Add	6.10	
For Elevated Installation >25' To 30', Add	8.53	
For Elevated Installation >30' To 35', Add	9.75	
For Elevated Installation >35' To 40', Add	12.19	
For Elevated Installation >40', Add	13.41	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.31	
26 05 33 13-0372 EA 3/4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs 32.35		13.55
For Work In Restricted Working Space, Add	8.13	
For Elevated Installation >10' To 15', Add	2.71	
For Elevated Installation >15' To 20', Add	5.42	
For Elevated Installation >20' To 25', Add	6.77	
For Elevated Installation >25' To 30', Add	9.48	
For Elevated Installation >30' To 35', Add	10.84	
For Elevated Installation >35' To 40', Add	13.55	
For Elevated Installation >40', Add	14.90	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0373	EA		1" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	40.03	16.94
			For Work In Restricted Working Space, Add	10.16	
			For Elevated Installation >10' To 15', Add	3.39	
			For Elevated Installation >15' To 20', Add	6.77	
			For Elevated Installation >20' To 25', Add	8.47	
			For Elevated Installation >25' To 30', Add	11.85	
			For Elevated Installation >30' To 35', Add	13.54	
			For Elevated Installation >35' To 40', Add	16.93	
			For Elevated Installation >40', Add	18.62	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	
26 05 33 13-0374	EA		1-1/4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	49.01	20.32
			For Work In Restricted Working Space, Add	12.19	
			For Elevated Installation >10' To 15', Add	4.06	
			For Elevated Installation >15' To 20', Add	8.13	
			For Elevated Installation >20' To 25', Add	10.16	
			For Elevated Installation >25' To 30', Add	14.22	
			For Elevated Installation >30' To 35', Add	16.25	
			For Elevated Installation >35' To 40', Add	20.32	
			For Elevated Installation >40', Add	22.35	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.19	
26 05 33 13-0375	EA		1-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	63.39	27.09
			For Work In Restricted Working Space, Add	16.25	
			For Elevated Installation >10' To 15', Add	5.42	
			For Elevated Installation >15' To 20', Add	10.84	
			For Elevated Installation >20' To 25', Add	13.55	
			For Elevated Installation >25' To 30', Add	18.96	
			For Elevated Installation >30' To 35', Add	21.67	
			For Elevated Installation >35' To 40', Add	27.09	
			For Elevated Installation >40', Add	29.80	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.25	
26 05 33 13-0376	EA		2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	73.27	30.47
			For Work In Restricted Working Space, Add	18.29	
			For Elevated Installation >10' To 15', Add	6.10	
			For Elevated Installation >15' To 20', Add	12.19	
			For Elevated Installation >20' To 25', Add	15.24	
			For Elevated Installation >25' To 30', Add	21.34	
			For Elevated Installation >30' To 35', Add	24.38	
			For Elevated Installation >35' To 40', Add	30.48	
			For Elevated Installation >40', Add	33.53	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.29	
26 05 33 13-0377	EA		2-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	88.63	33.86
			For Work In Restricted Working Space, Add	20.32	
			For Elevated Installation >10' To 15', Add	6.77	
			For Elevated Installation >15' To 20', Add	13.55	
			For Elevated Installation >20' To 25', Add	16.93	
			For Elevated Installation >25' To 30', Add	23.71	
			For Elevated Installation >30' To 35', Add	27.09	
			For Elevated Installation >35' To 40', Add	33.87	
			For Elevated Installation >40', Add	37.25	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.32	
26 05 33 13-0378	EA		3" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	118.10	42.67
			For Work In Restricted Working Space, Add	25.60	
			For Elevated Installation >10' To 15', Add	8.53	
			For Elevated Installation >15' To 20', Add	17.07	
			For Elevated Installation >20' To 25', Add	21.34	
			For Elevated Installation >25' To 30', Add	29.87	
			For Elevated Installation >30' To 35', Add	34.14	
			For Elevated Installation >35' To 40', Add	42.67	
			For Elevated Installation >40', Add	46.94	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.60	
26 05 33 13-0379	EA		3-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	140.55	51.47
			For Work In Restricted Working Space, Add	30.88	
			For Elevated Installation >10' To 15', Add	10.29	
			For Elevated Installation >15' To 20', Add	20.59	
			For Elevated Installation >20' To 25', Add	25.74	
			For Elevated Installation >25' To 30', Add	36.03	
			For Elevated Installation >30' To 35', Add	41.18	
			For Elevated Installation >35' To 40', Add	51.47	
			For Elevated Installation >40', Add	56.62	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.88	
26 05 33 13-0380	EA		4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	171.49	60.96
			For Work In Restricted Working Space, Add	36.57	
			For Elevated Installation >10' To 15', Add	12.19	
			For Elevated Installation >15' To 20', Add	24.38	
			For Elevated Installation >20' To 25', Add	30.48	
			For Elevated Installation >25' To 30', Add	42.67	
			For Elevated Installation >30' To 35', Add	48.76	
			For Elevated Installation >35' To 40', Add	60.95	
			For Elevated Installation >40', Add	67.05	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.57	

26 05 33 13-0381 Rigid Galvanized Steel (RGS) Expansion Fittings, 4" Conduit Movement (26 05

33 13-0059)
Note: Type AX

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0382	EA		1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	112.25	21.67
			For Work In Restricted Working Space, Add	16.26	
			For Elevated Installation >10' To 15', Add	5.42	
			For Elevated Installation >15' To 20', Add	10.84	
			For Elevated Installation >20' To 25', Add	13.55	
			For Elevated Installation >25' To 30', Add	18.97	
			For Elevated Installation >30' To 35', Add	21.68	
			For Elevated Installation >35' To 40', Add	27.10	
			For Elevated Installation >40', Add	29.80	
26 05 33 13-0383	EA		3/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	127.23	24.38
			For Work In Restricted Working Space, Add	18.29	
			For Elevated Installation >10' To 15', Add	6.10	
			For Elevated Installation >15' To 20', Add	12.19	
			For Elevated Installation >20' To 25', Add	15.24	
			For Elevated Installation >25' To 30', Add	21.33	
			For Elevated Installation >30' To 35', Add	24.38	
			For Elevated Installation >35' To 40', Add	30.48	
			For Elevated Installation >40', Add	33.52	
26 05 33 13-0384	EA		1" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	149.27	27.09
			For Work In Restricted Working Space, Add	20.32	
			For Elevated Installation >10' To 15', Add	6.77	
			For Elevated Installation >15' To 20', Add	13.55	
			For Elevated Installation >20' To 25', Add	16.93	
			For Elevated Installation >25' To 30', Add	23.71	
			For Elevated Installation >30' To 35', Add	27.09	
			For Elevated Installation >35' To 40', Add	33.87	
			For Elevated Installation >40', Add	37.25	
26 05 33 13-0385	EA		1-1/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	180.11	29.80
			For Work In Restricted Working Space, Add	22.35	
			For Elevated Installation >10' To 15', Add	7.45	
			For Elevated Installation >15' To 20', Add	14.90	
			For Elevated Installation >20' To 25', Add	18.63	
			For Elevated Installation >25' To 30', Add	26.08	
			For Elevated Installation >30' To 35', Add	29.80	
			For Elevated Installation >35' To 40', Add	37.25	
			For Elevated Installation >40', Add	40.98	
26 05 33 13-0386	EA		1-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	222.41	32.51
			For Work In Restricted Working Space, Add	24.38	
			For Elevated Installation >10' To 15', Add	8.13	
			For Elevated Installation >15' To 20', Add	16.25	
			For Elevated Installation >20' To 25', Add	20.32	
			For Elevated Installation >25' To 30', Add	28.44	
			For Elevated Installation >30' To 35', Add	32.51	
			For Elevated Installation >35' To 40', Add	40.64	
			For Elevated Installation >40', Add	44.70	
26 05 33 13-0387	EA		2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	299.74	35.21
			For Work In Restricted Working Space, Add	26.41	
			For Elevated Installation >10' To 15', Add	8.80	
			For Elevated Installation >15' To 20', Add	17.61	
			For Elevated Installation >20' To 25', Add	22.01	
			For Elevated Installation >25' To 30', Add	30.81	
			For Elevated Installation >30' To 35', Add	35.21	
			For Elevated Installation >35' To 40', Add	44.02	
			For Elevated Installation >40', Add	48.42	
26 05 33 13-0388	EA		2-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	450.60	43.34
			For Work In Restricted Working Space, Add	32.51	
			For Elevated Installation >10' To 15', Add	10.84	
			For Elevated Installation >15' To 20', Add	21.67	
			For Elevated Installation >20' To 25', Add	27.09	
			For Elevated Installation >25' To 30', Add	37.93	
			For Elevated Installation >30' To 35', Add	43.34	
			For Elevated Installation >35' To 40', Add	54.18	
			For Elevated Installation >40', Add	59.60	
26 05 33 13-0389	EA		3" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	576.24	54.18
			For Work In Restricted Working Space, Add	40.64	
			For Elevated Installation >10' To 15', Add	13.55	
			For Elevated Installation >15' To 20', Add	27.09	
			For Elevated Installation >20' To 25', Add	33.86	
			For Elevated Installation >25' To 30', Add	47.41	
			For Elevated Installation >30' To 35', Add	54.18	
			For Elevated Installation >35' To 40', Add	67.73	
			For Elevated Installation >40', Add	74.50	
26 05 33 13-0390	EA		3-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement	830.07	65.02
			For Work In Restricted Working Space, Add	48.77	
			For Elevated Installation >10' To 15', Add	16.26	
			For Elevated Installation >15' To 20', Add	32.51	
			For Elevated Installation >20' To 25', Add	40.64	
			For Elevated Installation >25' To 30', Add	56.90	
			For Elevated Installation >30' To 35', Add	65.02	
			For Elevated Installation >35' To 40', Add	81.28	
			For Elevated Installation >40', Add	89.41	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0391	EA		4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement 885.73		70.44
			For Work In Restricted Working Space, Add	52.82	
			For Elevated Installation >10' To 15', Add	17.61	
			For Elevated Installation >15' To 20', Add	35.21	
			For Elevated Installation >20' To 25', Add	44.02	
			For Elevated Installation >25' To 30', Add	61.62	
			For Elevated Installation >30' To 35', Add	70.43	
			For Elevated Installation >35' To 40', Add	88.04	
			For Elevated Installation >40', Add	96.84	
26 05 33 13-0392	EA		5" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement 1,339.86		86.69
			For Work In Restricted Working Space, Add	65.02	
			For Elevated Installation >10' To 15', Add	21.67	
			For Elevated Installation >15' To 20', Add	43.34	
			For Elevated Installation >20' To 25', Add	54.18	
			For Elevated Installation >25' To 30', Add	75.85	
			For Elevated Installation >30' To 35', Add	86.69	
			For Elevated Installation >35' To 40', Add	108.36	
			For Elevated Installation >40', Add	119.20	
26 05 33 13-0393	EA		6" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement 1,637.77		96.17
			For Work In Restricted Working Space, Add	72.17	
			For Elevated Installation >10' To 15', Add	24.06	
			For Elevated Installation >15' To 20', Add	48.11	
			For Elevated Installation >20' To 25', Add	60.14	
			For Elevated Installation >25' To 30', Add	84.20	
			For Elevated Installation >30' To 35', Add	96.22	
			For Elevated Installation >35' To 40', Add	120.28	
			For Elevated Installation >40', Add	132.31	
26 05 33 13-0394			Rigid Galvanized Steel (RGS) Expansion Fittings, 8" Conduit Movement (26 05		
			33 13-0059)		
			Note: Type AX-8		
26 05 33 13-0395	EA		1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement 121.95		21.67
			For Work In Restricted Working Space, Add	16.26	
			For Elevated Installation >10' To 15', Add	5.42	
			For Elevated Installation >15' To 20', Add	10.84	
			For Elevated Installation >20' To 25', Add	13.55	
			For Elevated Installation >25' To 30', Add	18.97	
			For Elevated Installation >30' To 35', Add	21.68	
			For Elevated Installation >35' To 40', Add	27.10	
			For Elevated Installation >40', Add	29.80	
26 05 33 13-0396	EA		3/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement 135.83		24.38
			For Work In Restricted Working Space, Add	18.29	
			For Elevated Installation >10' To 15', Add	6.10	
			For Elevated Installation >15' To 20', Add	12.19	
			For Elevated Installation >20' To 25', Add	15.24	
			For Elevated Installation >25' To 30', Add	21.33	
			For Elevated Installation >30' To 35', Add	24.38	
			For Elevated Installation >35' To 40', Add	30.48	
			For Elevated Installation >40', Add	33.52	
26 05 33 13-0397	EA		1" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement 162.76		27.09
			For Work In Restricted Working Space, Add	20.32	
			For Elevated Installation >10' To 15', Add	6.77	
			For Elevated Installation >15' To 20', Add	13.55	
			For Elevated Installation >20' To 25', Add	16.93	
			For Elevated Installation >25' To 30', Add	23.71	
			For Elevated Installation >30' To 35', Add	27.09	
			For Elevated Installation >35' To 40', Add	33.87	
			For Elevated Installation >40', Add	37.25	
26 05 33 13-0398	EA		1-1/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement 201.36		29.80
			For Work In Restricted Working Space, Add	22.35	
			For Elevated Installation >10' To 15', Add	7.45	
			For Elevated Installation >15' To 20', Add	14.90	
			For Elevated Installation >20' To 25', Add	18.63	
			For Elevated Installation >25' To 30', Add	26.08	
			For Elevated Installation >30' To 35', Add	29.80	
			For Elevated Installation >35' To 40', Add	37.25	
			For Elevated Installation >40', Add	40.98	
26 05 33 13-0399	EA		1-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement 264.64		32.51
			For Work In Restricted Working Space, Add	24.38	
			For Elevated Installation >10' To 15', Add	8.13	
			For Elevated Installation >15' To 20', Add	16.25	
			For Elevated Installation >20' To 25', Add	20.32	
			For Elevated Installation >25' To 30', Add	28.44	
			For Elevated Installation >30' To 35', Add	32.51	
			For Elevated Installation >35' To 40', Add	40.64	
			For Elevated Installation >40', Add	44.70	
26 05 33 13-0400	EA		2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement 319.92		35.21
			For Work In Restricted Working Space, Add	26.41	
			For Elevated Installation >10' To 15', Add	8.80	
			For Elevated Installation >15' To 20', Add	17.61	
			For Elevated Installation >20' To 25', Add	22.01	
			For Elevated Installation >25' To 30', Add	30.81	
			For Elevated Installation >30' To 35', Add	35.21	
			For Elevated Installation >35' To 40', Add	44.02	
			For Elevated Installation >40', Add	48.42	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0401 EA 2-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	581.41	43.34
For Work In Restricted Working Space, Add	32.51	
For Elevated Installation >10' To 15', Add	10.84	
For Elevated Installation >15' To 20', Add	21.67	
For Elevated Installation >20' To 25', Add	27.09	
For Elevated Installation >25' To 30', Add	37.93	
For Elevated Installation >30' To 35', Add	43.34	
For Elevated Installation >35' To 40', Add	54.18	
For Elevated Installation >40', Add	59.60	
26 05 33 13-0402 EA 3" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	665.57	54.18
For Work In Restricted Working Space, Add	40.64	
For Elevated Installation >10' To 15', Add	13.55	
For Elevated Installation >15' To 20', Add	27.09	
For Elevated Installation >20' To 25', Add	33.86	
For Elevated Installation >25' To 30', Add	47.41	
For Elevated Installation >30' To 35', Add	54.18	
For Elevated Installation >35' To 40', Add	67.73	
For Elevated Installation >40', Add	74.50	
26 05 33 13-0403 EA 3-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement	1,006.59	65.02
For Work In Restricted Working Space, Add	48.77	
For Elevated Installation >10' To 15', Add	16.26	
For Elevated Installation >15' To 20', Add	32.51	
For Elevated Installation >20' To 25', Add	40.64	
For Elevated Installation >25' To 30', Add	56.90	
For Elevated Installation >30' To 35', Add	65.02	
For Elevated Installation >35' To 40', Add	81.28	
For Elevated Installation >40', Add	89.41	
26 05 33 13-0404 EA 4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	1,089.75	70.44
For Work In Restricted Working Space, Add	52.82	
For Elevated Installation >10' To 15', Add	17.61	
For Elevated Installation >15' To 20', Add	35.21	
For Elevated Installation >20' To 25', Add	44.02	
For Elevated Installation >25' To 30', Add	61.62	
For Elevated Installation >30' To 35', Add	70.43	
For Elevated Installation >35' To 40', Add	88.04	
For Elevated Installation >40', Add	96.84	
26 05 33 13-0405 EA 5" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	1,511.84	86.69
For Work In Restricted Working Space, Add	65.02	
For Elevated Installation >10' To 15', Add	21.67	
For Elevated Installation >15' To 20', Add	43.34	
For Elevated Installation >20' To 25', Add	54.18	
For Elevated Installation >25' To 30', Add	75.85	
For Elevated Installation >30' To 35', Add	86.69	
For Elevated Installation >35' To 40', Add	108.36	
For Elevated Installation >40', Add	119.20	
26 05 33 13-0406 EA 6" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	1,859.03	96.17
For Work In Restricted Working Space, Add	72.17	
For Elevated Installation >10' To 15', Add	24.06	
For Elevated Installation >15' To 20', Add	48.11	
For Elevated Installation >20' To 25', Add	60.14	
For Elevated Installation >25' To 30', Add	84.20	
For Elevated Installation >30' To 35', Add	96.22	
For Elevated Installation >35' To 40', Add	120.28	
For Elevated Installation >40', Add	132.31	
26 05 33 13-0407 Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fittings, 8" Conduit Movement (26 05 33 13-0059)		
Note: Type EX		
26 05 33 13-0408 EA 1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	136.16	21.67
For Work In Restricted Working Space, Add	16.26	
For Elevated Installation >10' To 15', Add	5.42	
For Elevated Installation >15' To 20', Add	10.84	
For Elevated Installation >20' To 25', Add	13.55	
For Elevated Installation >25' To 30', Add	18.97	
For Elevated Installation >30' To 35', Add	21.68	
For Elevated Installation >35' To 40', Add	27.10	
For Elevated Installation >40', Add	29.80	
26 05 33 13-0409 EA 3/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	169.32	24.38
For Work In Restricted Working Space, Add	18.29	
For Elevated Installation >10' To 15', Add	6.10	
For Elevated Installation >15' To 20', Add	12.19	
For Elevated Installation >20' To 25', Add	15.24	
For Elevated Installation >25' To 30', Add	21.33	
For Elevated Installation >30' To 35', Add	24.38	
For Elevated Installation >35' To 40', Add	30.48	
For Elevated Installation >40', Add	33.52	
26 05 33 13-0410 EA 1" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	208.01	27.09
For Work In Restricted Working Space, Add	20.32	
For Elevated Installation >10' To 15', Add	6.77	
For Elevated Installation >15' To 20', Add	13.55	
For Elevated Installation >20' To 25', Add	16.93	
For Elevated Installation >25' To 30', Add	23.71	
For Elevated Installation >30' To 35', Add	27.09	
For Elevated Installation >35' To 40', Add	33.87	
For Elevated Installation >40', Add	37.25	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0411	EA	1-1/4"	Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	250.36	29.80
			For Work In Restricted Working Space, Add	22.35	
			For Elevated Installation >10' To 15', Add	7.45	
			For Elevated Installation >15' To 20', Add	14.90	
			For Elevated Installation >20' To 25', Add	18.63	
			For Elevated Installation >25' To 30', Add	26.08	
			For Elevated Installation >30' To 35', Add	29.80	
			For Elevated Installation >35' To 40', Add	37.25	
			For Elevated Installation >40', Add	40.98	
26 05 33 13-0412	EA	1-1/2"	Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	330.98	32.51
			For Work In Restricted Working Space, Add	24.38	
			For Elevated Installation >10' To 15', Add	8.13	
			For Elevated Installation >15' To 20', Add	16.25	
			For Elevated Installation >20' To 25', Add	20.32	
			For Elevated Installation >25' To 30', Add	28.44	
			For Elevated Installation >30' To 35', Add	32.51	
			For Elevated Installation >35' To 40', Add	40.64	
			For Elevated Installation >40', Add	44.70	
26 05 33 13-0413	EA	2"	Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	448.11	35.21
			For Work In Restricted Working Space, Add	26.41	
			For Elevated Installation >10' To 15', Add	8.80	
			For Elevated Installation >15' To 20', Add	17.61	
			For Elevated Installation >20' To 25', Add	22.01	
			For Elevated Installation >25' To 30', Add	30.81	
			For Elevated Installation >30' To 35', Add	35.21	
			For Elevated Installation >35' To 40', Add	44.02	
			For Elevated Installation >40', Add	48.42	
26 05 33 13-0414	EA	2-1/2"	Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	686.95	43.34
			For Work In Restricted Working Space, Add	32.51	
			For Elevated Installation >10' To 15', Add	10.84	
			For Elevated Installation >15' To 20', Add	21.67	
			For Elevated Installation >20' To 25', Add	27.09	
			For Elevated Installation >25' To 30', Add	37.93	
			For Elevated Installation >30' To 35', Add	43.34	
			For Elevated Installation >35' To 40', Add	54.18	
			For Elevated Installation >40', Add	59.60	
26 05 33 13-0415	EA	3"	Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	922.54	54.18
			For Work In Restricted Working Space, Add	40.64	
			For Elevated Installation >10' To 15', Add	13.55	
			For Elevated Installation >15' To 20', Add	27.09	
			For Elevated Installation >20' To 25', Add	33.86	
			For Elevated Installation >25' To 30', Add	47.41	
			For Elevated Installation >30' To 35', Add	54.18	
			For Elevated Installation >35' To 40', Add	67.73	
			For Elevated Installation >40', Add	74.50	
26 05 33 13-0416	EA	3-1/2"	Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	1,372.08	65.02
			For Work In Restricted Working Space, Add	48.77	
			For Elevated Installation >10' To 15', Add	16.26	
			For Elevated Installation >15' To 20', Add	32.51	
			For Elevated Installation >20' To 25', Add	40.64	
			For Elevated Installation >25' To 30', Add	56.90	
			For Elevated Installation >30' To 35', Add	65.02	
			For Elevated Installation >35' To 40', Add	81.28	
			For Elevated Installation >40', Add	89.41	
26 05 33 13-0417	EA	4"	Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	1,422.66	70.44
			For Work In Restricted Working Space, Add	52.82	
			For Elevated Installation >10' To 15', Add	17.61	
			For Elevated Installation >15' To 20', Add	35.21	
			For Elevated Installation >20' To 25', Add	44.02	
			For Elevated Installation >25' To 30', Add	61.62	
			For Elevated Installation >30' To 35', Add	70.43	
			For Elevated Installation >35' To 40', Add	88.04	
			For Elevated Installation >40', Add	96.84	
26 05 33 13-0418	EA	5"	Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	2,125.50	86.69
			For Work In Restricted Working Space, Add	65.02	
			For Elevated Installation >10' To 15', Add	21.67	
			For Elevated Installation >15' To 20', Add	43.34	
			For Elevated Installation >20' To 25', Add	54.18	
			For Elevated Installation >25' To 30', Add	75.85	
			For Elevated Installation >30' To 35', Add	86.69	
			For Elevated Installation >35' To 40', Add	108.36	
			For Elevated Installation >40', Add	119.20	
26 05 33 13-0419	EA	6"	Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	2,625.92	96.17
			For Work In Restricted Working Space, Add	72.17	
			For Elevated Installation >10' To 15', Add	24.06	
			For Elevated Installation >15' To 20', Add	48.11	
			For Elevated Installation >20' To 25', Add	60.14	
			For Elevated Installation >25' To 30', Add	84.20	
			For Elevated Installation >30' To 35', Add	96.22	
			For Elevated Installation >35' To 40', Add	120.28	
			For Elevated Installation >40', Add	132.31	

26 05 33 13-0420 Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection
Expansion Fittings (26 05 33 13-0059)
Note: Type DX

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0421 EA 1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	223.76	21.67
For Work In Restricted Working Space, Add	16.26	
For Elevated Installation >10' To 15', Add	5.42	
For Elevated Installation >15' To 20', Add	10.84	
For Elevated Installation >20' To 25', Add	13.55	
For Elevated Installation >25' To 30', Add	18.97	
For Elevated Installation >30' To 35', Add	21.68	
For Elevated Installation >35' To 40', Add	27.10	
For Elevated Installation >40', Add	29.80	
26 05 33 13-0422 EA 3/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	265.39	24.38
For Work In Restricted Working Space, Add	18.29	
For Elevated Installation >10' To 15', Add	6.10	
For Elevated Installation >15' To 20', Add	12.19	
For Elevated Installation >20' To 25', Add	15.24	
For Elevated Installation >25' To 30', Add	21.33	
For Elevated Installation >30' To 35', Add	24.38	
For Elevated Installation >35' To 40', Add	30.48	
For Elevated Installation >40', Add	33.52	
26 05 33 13-0423 EA 1" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	318.87	27.09
For Work In Restricted Working Space, Add	20.32	
For Elevated Installation >10' To 15', Add	6.77	
For Elevated Installation >15' To 20', Add	13.55	
For Elevated Installation >20' To 25', Add	16.93	
For Elevated Installation >25' To 30', Add	23.71	
For Elevated Installation >30' To 35', Add	27.09	
For Elevated Installation >35' To 40', Add	33.87	
For Elevated Installation >40', Add	37.25	
26 05 33 13-0424 EA 1-1/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	373.19	29.80
For Work In Restricted Working Space, Add	22.35	
For Elevated Installation >10' To 15', Add	7.45	
For Elevated Installation >15' To 20', Add	14.90	
For Elevated Installation >20' To 25', Add	18.63	
For Elevated Installation >25' To 30', Add	26.08	
For Elevated Installation >30' To 35', Add	29.80	
For Elevated Installation >35' To 40', Add	37.25	
For Elevated Installation >40', Add	40.98	
26 05 33 13-0425 EA 1-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	412.33	32.51
For Work In Restricted Working Space, Add	24.38	
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.51	
For Elevated Installation >35' To 40', Add	40.64	
For Elevated Installation >40', Add	44.70	
26 05 33 13-0426 EA 2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	505.56	35.21
For Work In Restricted Working Space, Add	26.41	
For Elevated Installation >10' To 15', Add	8.80	
For Elevated Installation >15' To 20', Add	17.61	
For Elevated Installation >20' To 25', Add	22.01	
For Elevated Installation >25' To 30', Add	30.81	
For Elevated Installation >30' To 35', Add	35.21	
For Elevated Installation >35' To 40', Add	44.02	
For Elevated Installation >40', Add	48.42	
26 05 33 13-0427 EA 2-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	665.62	43.34
For Work In Restricted Working Space, Add	32.51	
For Elevated Installation >10' To 15', Add	10.84	
For Elevated Installation >15' To 20', Add	21.67	
For Elevated Installation >20' To 25', Add	27.09	
For Elevated Installation >25' To 30', Add	37.93	
For Elevated Installation >30' To 35', Add	43.34	
For Elevated Installation >35' To 40', Add	54.18	
For Elevated Installation >40', Add	59.60	
26 05 33 13-0428 EA 3" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	843.50	54.18
For Work In Restricted Working Space, Add	40.64	
For Elevated Installation >10' To 15', Add	13.55	
For Elevated Installation >15' To 20', Add	27.09	
For Elevated Installation >20' To 25', Add	33.86	
For Elevated Installation >25' To 30', Add	47.41	
For Elevated Installation >30' To 35', Add	54.18	
For Elevated Installation >35' To 40', Add	67.73	
For Elevated Installation >40', Add	74.50	
26 05 33 13-0429 EA 3-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	952.40	65.02
For Work In Restricted Working Space, Add	48.77	
For Elevated Installation >10' To 15', Add	16.26	
For Elevated Installation >15' To 20', Add	32.51	
For Elevated Installation >20' To 25', Add	40.64	
For Elevated Installation >25' To 30', Add	56.90	
For Elevated Installation >30' To 35', Add	65.02	
For Elevated Installation >35' To 40', Add	81.28	
For Elevated Installation >40', Add	89.41	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0430	EA		4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	1,148.06	70.44
			For Work In Restricted Working Space, Add	52.82	
			For Elevated Installation >10' To 15', Add	17.61	
			For Elevated Installation >15' To 20', Add	35.21	
			For Elevated Installation >20' To 25', Add	44.02	
			For Elevated Installation >25' To 30', Add	61.62	
			For Elevated Installation >30' To 35', Add	70.43	
			For Elevated Installation >35' To 40', Add	88.04	
			For Elevated Installation >40', Add	96.84	
26 05 33 13-0431	EA		5" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	1,936.14	86.69
			For Work In Restricted Working Space, Add	65.02	
			For Elevated Installation >10' To 15', Add	21.67	
			For Elevated Installation >15' To 20', Add	43.34	
			For Elevated Installation >20' To 25', Add	54.18	
			For Elevated Installation >25' To 30', Add	75.85	
			For Elevated Installation >30' To 35', Add	86.69	
			For Elevated Installation >35' To 40', Add	108.36	
			For Elevated Installation >40', Add	119.20	
26 05 33 13-0432	EA		6" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting	3,044.70	96.17
			For Work In Restricted Working Space, Add	72.17	
			For Elevated Installation >10' To 15', Add	24.06	
			For Elevated Installation >15' To 20', Add	48.11	
			For Elevated Installation >20' To 25', Add	60.14	
			For Elevated Installation >25' To 30', Add	84.20	
			For Elevated Installation >30' To 35', Add	96.22	
			For Elevated Installation >35' To 40', Add	120.28	
			For Elevated Installation >40', Add	132.31	
26 05 33 13-0433 Rigid Galvanized Steel (RGS) Conduit Bonding Jumpers (26 05 33 13-0059)					
26 05 33 13-0434	EA		1/2" To 3/4" Conduit, 14" Bonding Jumper	62.06	10.83
			For Work In Restricted Working Space, Add	8.13	
			For Elevated Installation >10' To 15', Add	2.71	
			For Elevated Installation >15' To 20', Add	5.42	
			For Elevated Installation >20' To 25', Add	6.78	
			For Elevated Installation >25' To 30', Add	9.49	
			For Elevated Installation >30' To 35', Add	10.84	
			For Elevated Installation >35' To 40', Add	13.55	
			For Elevated Installation >40', Add	14.91	
26 05 33 13-0435	EA		1" To 1-1/4" Conduit, 14" Bonding Jumper	72.36	13.55
			For Work In Restricted Working Space, Add	10.16	
			For Elevated Installation >10' To 15', Add	3.39	
			For Elevated Installation >15' To 20', Add	6.77	
			For Elevated Installation >20' To 25', Add	8.47	
			For Elevated Installation >25' To 30', Add	11.85	
			For Elevated Installation >30' To 35', Add	13.55	
			For Elevated Installation >35' To 40', Add	16.94	
			For Elevated Installation >40', Add	18.63	
26 05 33 13-0436	EA		1-1/2" To 2" Conduit, 14" Bonding Jumper	88.84	16.25
			For Work In Restricted Working Space, Add	12.19	
			For Elevated Installation >10' To 15', Add	4.06	
			For Elevated Installation >15' To 20', Add	8.13	
			For Elevated Installation >20' To 25', Add	10.16	
			For Elevated Installation >25' To 30', Add	14.22	
			For Elevated Installation >30' To 35', Add	16.25	
			For Elevated Installation >35' To 40', Add	20.32	
			For Elevated Installation >40', Add	22.35	
26 05 33 13-0437	EA		2-1/2" To 3" Conduit, 14" Bonding Jumper	123.84	21.67
			For Work In Restricted Working Space, Add	16.25	
			For Elevated Installation >10' To 15', Add	5.42	
			For Elevated Installation >15' To 20', Add	10.84	
			For Elevated Installation >20' To 25', Add	13.55	
			For Elevated Installation >25' To 30', Add	18.96	
			For Elevated Installation >30' To 35', Add	21.67	
			For Elevated Installation >35' To 40', Add	27.09	
			For Elevated Installation >40', Add	29.80	
26 05 33 13-0438	EA		3-1/2" To 4" Conduit, 14" Bonding Jumper	187.37	32.51
			For Work In Restricted Working Space, Add	24.38	
			For Elevated Installation >10' To 15', Add	8.13	
			For Elevated Installation >15' To 20', Add	16.26	
			For Elevated Installation >20' To 25', Add	20.32	
			For Elevated Installation >25' To 30', Add	28.45	
			For Elevated Installation >30' To 35', Add	32.51	
			For Elevated Installation >35' To 40', Add	40.64	
			For Elevated Installation >40', Add	44.70	
26 05 33 13-0439	EA		5" To 6" Conduit, 14" Bonding Jumper	309.92	43.34
			For Work In Restricted Working Space, Add	32.51	
			For Elevated Installation >10' To 15', Add	10.84	
			For Elevated Installation >15' To 20', Add	21.67	
			For Elevated Installation >20' To 25', Add	27.09	
			For Elevated Installation >25' To 30', Add	37.93	
			For Elevated Installation >30' To 35', Add	43.34	
			For Elevated Installation >35' To 40', Add	54.18	
			For Elevated Installation >40', Add	59.60	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0440 EA 1/2" To 3/4" Conduit, 24" Bonding Jumper.....	68.05	10.83
For Work In Restricted Working Space, Add	8.13	
For Elevated Installation >10' To 15', Add	2.71	
For Elevated Installation >15' To 20', Add	5.42	
For Elevated Installation >20' To 25', Add	6.78	
For Elevated Installation >25' To 30', Add	9.49	
For Elevated Installation >30' To 35', Add	10.84	
For Elevated Installation >35' To 40', Add	13.55	
For Elevated Installation >40', Add	14.91	
26 05 33 13-0441 EA 1" To 1-1/4" Conduit, 24" Bonding Jumper	79.93	13.55
For Work In Restricted Working Space, Add	10.16	
For Elevated Installation >10' To 15', Add	3.39	
For Elevated Installation >15' To 20', Add	6.77	
For Elevated Installation >20' To 25', Add	8.47	
For Elevated Installation >25' To 30', Add	11.85	
For Elevated Installation >30' To 35', Add	13.55	
For Elevated Installation >35' To 40', Add	16.94	
For Elevated Installation >40', Add	18.63	
26 05 33 13-0442 EA 1-1/2" To 2" Conduit, 24" Bonding Jumper	95.77	16.25
For Work In Restricted Working Space, Add	12.19	
For Elevated Installation >10' To 15', Add	4.06	
For Elevated Installation >15' To 20', Add	8.13	
For Elevated Installation >20' To 25', Add	10.16	
For Elevated Installation >25' To 30', Add	14.22	
For Elevated Installation >30' To 35', Add	16.25	
For Elevated Installation >35' To 40', Add	20.32	
For Elevated Installation >40', Add	22.35	
26 05 33 13-0443 EA 2-1/2" To 3" Conduit, 24" Bonding Jumper	133.04	21.67
For Work In Restricted Working Space, Add	16.25	
For Elevated Installation >10' To 15', Add	5.42	
For Elevated Installation >15' To 20', Add	10.84	
For Elevated Installation >20' To 25', Add	13.55	
For Elevated Installation >25' To 30', Add	18.96	
For Elevated Installation >30' To 35', Add	21.67	
For Elevated Installation >35' To 40', Add	27.09	
For Elevated Installation >40', Add	29.80	
26 05 33 13-0444 EA 3-1/2" To 4" Conduit, 24" Bonding Jumper	199.57	32.51
For Work In Restricted Working Space, Add	24.38	
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.26	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.45	
For Elevated Installation >30' To 35', Add	32.51	
For Elevated Installation >35' To 40', Add	40.64	
For Elevated Installation >40', Add	44.70	
26 05 33 13-0445 EA 5" To 6" Conduit, 24" Bonding Jumper	349.28	43.34
For Work In Restricted Working Space, Add	32.51	
For Elevated Installation >10' To 15', Add	10.84	
For Elevated Installation >15' To 20', Add	21.67	
For Elevated Installation >20' To 25', Add	27.09	
For Elevated Installation >25' To 30', Add	37.93	
For Elevated Installation >30' To 35', Add	43.34	
For Elevated Installation >35' To 40', Add	54.18	
For Elevated Installation >40', Add	59.60	
26 05 33 13-0446 Rigid Galvanized Steel (RGS) Sealing Fittings, Vertical/Horizontal (26 05 33 13-0059)		
26 05 33 13-0447 EA 1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	117.23	33.86
For Work In Restricted Working Space, Add	20.32	
For Elevated Installation >10' To 15', Add	6.77	
For Elevated Installation >15' To 20', Add	13.55	
For Elevated Installation >20' To 25', Add	16.93	
For Elevated Installation >25' To 30', Add	23.71	
For Elevated Installation >30' To 35', Add	27.09	
For Elevated Installation >35' To 40', Add	33.87	
For Elevated Installation >40', Add	37.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.32	
26 05 33 13-0448 EA 3/4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	139.40	40.63
For Work In Restricted Working Space, Add	24.38	
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.51	
For Elevated Installation >35' To 40', Add	40.64	
For Elevated Installation >40', Add	44.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.38	
26 05 33 13-0449 EA 1" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal.....	169.53	47.41
For Work In Restricted Working Space, Add	28.45	
For Elevated Installation >10' To 15', Add	9.48	
For Elevated Installation >15' To 20', Add	18.96	
For Elevated Installation >20' To 25', Add	23.71	
For Elevated Installation >25' To 30', Add	33.19	
For Elevated Installation >30' To 35', Add	37.93	
For Elevated Installation >35' To 40', Add	47.41	
For Elevated Installation >40', Add	52.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.45	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0450	EA	1-1/4"	Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	199.09 32.51 10.84 21.67 27.09 37.93 43.34 54.18 59.60 32.51	54.18
26 05 33 13-0451	EA	1-1/2"	Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	258.50 36.57 12.19 24.38 30.48 42.67 48.76 60.95 67.05 36.57	60.96
26 05 33 13-0452	EA	2"	Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	312.43 40.64 13.55 27.09 33.86 47.41 54.18 67.73 74.50 40.64	67.73
26 05 33 13-0453	EA	2-1/2"	Rigid Galvanized Steel (RGS) Conduit Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	437.51 48.76 16.25 32.51 40.64 56.89 65.02 81.27 89.40 48.76	81.27
26 05 33 13-0454	EA	3"	Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	525.52 56.89 18.96 37.93 47.41 66.37 75.85 94.82 104.30 56.89	94.82
26 05 33 13-0455	EA	3-1/2"	Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,185.44 65.02 21.67 43.34 54.18 75.85 86.69 108.36 119.20 65.02	108.36
26 05 33 13-0456	EA	4"	Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,364.97 73.15 24.38 48.76 60.96 85.34 97.53 121.91 134.10 73.15	121.90
26 05 33 13-0457			Rigid Galvanized Steel (RGS) Threaded Couplings (26 05 33 13-0059)		
26 05 33 13-0458	EA	1/2"	Rigid Galvanized Steel (RGS) Threaded Coupling..... For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	17.64 4.88 1.63 3.25 4.06 5.69 6.50 8.13 8.94	8.13

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0459 EA 3/4" Rigid Galvanized Steel (RGS) Threaded Coupling.....	24.76	11.51
For Work In Restricted Working Space, Add	6.91	
For Elevated Installation >10' To 15', Add	2.30	
For Elevated Installation >15' To 20', Add	4.61	
For Elevated Installation >20' To 25', Add	5.76	
For Elevated Installation >25' To 30', Add	8.06	
For Elevated Installation >30' To 35', Add	9.21	
For Elevated Installation >35' To 40', Add	11.52	
For Elevated Installation >40', Add	12.67	
26 05 33 13-0460 EA 1" Rigid Galvanized Steel (RGS) Threaded Coupling.....	32.45	14.90
For Work In Restricted Working Space, Add	8.94	
For Elevated Installation >10' To 15', Add	2.98	
For Elevated Installation >15' To 20', Add	5.96	
For Elevated Installation >20' To 25', Add	7.45	
For Elevated Installation >25' To 30', Add	10.43	
For Elevated Installation >30' To 35', Add	11.92	
For Elevated Installation >35' To 40', Add	14.90	
For Elevated Installation >40', Add	16.39	
26 05 33 13-0461 EA 1-1/4" Rigid Galvanized Steel (RGS) Threaded Coupling.....	37.20	16.94
For Work In Restricted Working Space, Add	10.16	
For Elevated Installation >10' To 15', Add	3.39	
For Elevated Installation >15' To 20', Add	6.77	
For Elevated Installation >20' To 25', Add	8.47	
For Elevated Installation >25' To 30', Add	11.85	
For Elevated Installation >30' To 35', Add	13.54	
For Elevated Installation >35' To 40', Add	16.93	
For Elevated Installation >40', Add	18.62	
26 05 33 13-0462 EA 1-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	44.81	20.32
For Work In Restricted Working Space, Add	12.19	
For Elevated Installation >10' To 15', Add	4.06	
For Elevated Installation >15' To 20', Add	8.13	
For Elevated Installation >20' To 25', Add	10.16	
For Elevated Installation >25' To 30', Add	14.22	
For Elevated Installation >30' To 35', Add	16.25	
For Elevated Installation >35' To 40', Add	20.32	
For Elevated Installation >40', Add	22.35	
26 05 33 13-0463 EA 2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	52.29	23.03
For Work In Restricted Working Space, Add	13.82	
For Elevated Installation >10' To 15', Add	4.61	
For Elevated Installation >15' To 20', Add	9.21	
For Elevated Installation >20' To 25', Add	11.52	
For Elevated Installation >25' To 30', Add	16.12	
For Elevated Installation >30' To 35', Add	18.42	
For Elevated Installation >35' To 40', Add	23.03	
For Elevated Installation >40', Add	25.33	
26 05 33 13-0464 EA 2-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	65.46	25.73
For Work In Restricted Working Space, Add	15.44	
For Elevated Installation >10' To 15', Add	5.15	
For Elevated Installation >15' To 20', Add	10.29	
For Elevated Installation >20' To 25', Add	12.87	
For Elevated Installation >25' To 30', Add	18.01	
For Elevated Installation >30' To 35', Add	20.59	
For Elevated Installation >35' To 40', Add	25.74	
For Elevated Installation >40', Add	28.31	
26 05 33 13-0465 EA 3" Rigid Galvanized Steel (RGS) Threaded Coupling.....	76.43	29.12
For Work In Restricted Working Space, Add	17.47	
For Elevated Installation >10' To 15', Add	5.82	
For Elevated Installation >15' To 20', Add	11.65	
For Elevated Installation >20' To 25', Add	14.56	
For Elevated Installation >25' To 30', Add	20.38	
For Elevated Installation >30' To 35', Add	23.30	
For Elevated Installation >35' To 40', Add	29.12	
For Elevated Installation >40', Add	32.03	
26 05 33 13-0466 EA 3-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	88.24	31.84
For Work In Restricted Working Space, Add	19.10	
For Elevated Installation >10' To 15', Add	6.37	
For Elevated Installation >15' To 20', Add	12.73	
For Elevated Installation >20' To 25', Add	15.92	
For Elevated Installation >25' To 30', Add	22.28	
For Elevated Installation >30' To 35', Add	25.46	
For Elevated Installation >35' To 40', Add	31.83	
For Elevated Installation >40', Add	35.01	
26 05 33 13-0467 EA 4" Threaded Rigid Galvanized Steel (RGS) Coupling.....	93.33	33.86
For Work In Restricted Working Space, Add	20.32	
For Elevated Installation >10' To 15', Add	6.77	
For Elevated Installation >15' To 20', Add	13.55	
For Elevated Installation >20' To 25', Add	16.93	
For Elevated Installation >25' To 30', Add	23.71	
For Elevated Installation >30' To 35', Add	27.09	
For Elevated Installation >35' To 40', Add	33.87	
For Elevated Installation >40', Add	37.25	
26 05 33 13-0468 Rigid Galvanized Steel (RGS) Sealing Locknut.....		
26 05 33 13-0469 EA 1/2" Rigid Galvanized Steel (RGS) Sealing Locknut.....	3.93	1.35
26 05 33 13-0470 EA 3/4" Rigid Galvanized Steel (RGS) Sealing Locknut.....	5.48	2.03
26 05 33 13-0471 EA 1" Rigid Galvanized Steel (RGS) Sealing Locknut.....	9.10	3.39



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0472	EA		1-1/4" Rigid Galvanized Steel (RGS) Sealing Locknut	13.12	4.74
26 05 33 13-0473	EA		1-1/2" Rigid Galvanized Steel (RGS) Sealing Locknut	15.63	5.42
26 05 33 13-0474	EA		2" Rigid Galvanized Steel (RGS) Sealing Locknut.....	18.32	6.09
26 05 33 13-0475 Rigid Galvanized Steel (RGS) Fire Stop Fittings (26 05 33 13-0059)					
26 05 33 13-0476	EA		1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting	238.30	16.44
			For Work In Restricted Working Space, Add	12.33	
			For Elevated Installation >10' To 15', Add	4.11	
			For Elevated Installation >15' To 20', Add	8.22	
			For Elevated Installation >20' To 25', Add	10.28	
			For Elevated Installation >25' To 30', Add	14.39	
			For Elevated Installation >30' To 35', Add	16.44	
			For Elevated Installation >35' To 40', Add	20.55	
			For Elevated Installation >40', Add	22.61	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.33	
26 05 33 13-0477	EA		3/4" Rigid Galvanized Steel (RGS) Fire Stop Fitting	242.26	18.02
			For Work In Restricted Working Space, Add	13.52	
			For Elevated Installation >10' To 15', Add	4.51	
			For Elevated Installation >15' To 20', Add	9.01	
			For Elevated Installation >20' To 25', Add	11.27	
			For Elevated Installation >25' To 30', Add	15.77	
			For Elevated Installation >30' To 35', Add	18.02	
			For Elevated Installation >35' To 40', Add	22.53	
			For Elevated Installation >40', Add	24.78	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.52	
26 05 33 13-0478	EA		1" Rigid Galvanized Steel (RGS) Fire Stop Fitting	290.70	19.77
			For Work In Restricted Working Space, Add	14.81	
			For Elevated Installation >10' To 15', Add	4.94	
			For Elevated Installation >15' To 20', Add	9.87	
			For Elevated Installation >20' To 25', Add	12.34	
			For Elevated Installation >25' To 30', Add	17.27	
			For Elevated Installation >30' To 35', Add	19.74	
			For Elevated Installation >35' To 40', Add	24.68	
			For Elevated Installation >40', Add	27.14	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.81	
26 05 33 13-0479	EA		1-1/4" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	319.12	21.67
			For Work In Restricted Working Space, Add	16.27	
			For Elevated Installation >10' To 15', Add	5.42	
			For Elevated Installation >15' To 20', Add	10.84	
			For Elevated Installation >20' To 25', Add	13.56	
			For Elevated Installation >25' To 30', Add	18.98	
			For Elevated Installation >30' To 35', Add	21.69	
			For Elevated Installation >35' To 40', Add	27.11	
			For Elevated Installation >40', Add	29.82	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.27	
26 05 33 13-0480	EA		1-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	364.13	24.38
			For Work In Restricted Working Space, Add	18.29	
			For Elevated Installation >10' To 15', Add	6.10	
			For Elevated Installation >15' To 20', Add	12.19	
			For Elevated Installation >20' To 25', Add	15.24	
			For Elevated Installation >25' To 30', Add	21.34	
			For Elevated Installation >30' To 35', Add	24.38	
			For Elevated Installation >35' To 40', Add	30.48	
			For Elevated Installation >40', Add	33.53	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.29	
26 05 33 13-0481	EA		2" Rigid Galvanized Steel (RGS) Fire Stop Fitting	538.70	27.09
			For Work In Restricted Working Space, Add	20.33	
			For Elevated Installation >10' To 15', Add	6.78	
			For Elevated Installation >15' To 20', Add	13.55	
			For Elevated Installation >20' To 25', Add	16.94	
			For Elevated Installation >25' To 30', Add	23.72	
			For Elevated Installation >30' To 35', Add	27.10	
			For Elevated Installation >35' To 40', Add	33.88	
			For Elevated Installation >40', Add	37.27	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.33	
26 05 33 13-0482	EA		2-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	620.16	36.17
			For Work In Restricted Working Space, Add	27.11	
			For Elevated Installation >10' To 15', Add	9.04	
			For Elevated Installation >15' To 20', Add	18.07	
			For Elevated Installation >20' To 25', Add	22.59	
			For Elevated Installation >25' To 30', Add	31.63	
			For Elevated Installation >30' To 35', Add	36.14	
			For Elevated Installation >35' To 40', Add	45.18	
			For Elevated Installation >40', Add	49.70	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.11	
26 05 33 13-0483	EA		3" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	687.96	39.69
			For Work In Restricted Working Space, Add	29.79	
			For Elevated Installation >10' To 15', Add	9.93	
			For Elevated Installation >15' To 20', Add	19.86	
			For Elevated Installation >20' To 25', Add	24.82	
			For Elevated Installation >25' To 30', Add	34.75	
			For Elevated Installation >30' To 35', Add	39.72	
			For Elevated Installation >35' To 40', Add	49.65	
			For Elevated Installation >40', Add	54.61	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.79	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0484	EA		3-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	800.07	43.34
			For Work In Restricted Working Space, Add	32.51	
			For Elevated Installation >10' To 15', Add	10.84	
			For Elevated Installation >15' To 20', Add	21.68	
			For Elevated Installation >20' To 25', Add	27.10	
			For Elevated Installation >25' To 30', Add	37.93	
			For Elevated Installation >30' To 35', Add	43.35	
			For Elevated Installation >35' To 40', Add	54.19	
			For Elevated Installation >40', Add	59.61	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 05 33 13-0485	EA		4" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	901.89	48.76
			For Work In Restricted Working Space, Add	36.57	
			For Elevated Installation >10' To 15', Add	12.19	
			For Elevated Installation >15' To 20', Add	24.38	
			For Elevated Installation >20' To 25', Add	30.48	
			For Elevated Installation >25' To 30', Add	42.67	
			For Elevated Installation >30' To 35', Add	48.76	
			For Elevated Installation >35' To 40', Add	60.95	
			For Elevated Installation >40', Add	67.05	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.57	
26 05 33 13-0486	EA		5" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	1,209.77	54.18
			For Work In Restricted Working Space, Add	40.64	
			For Elevated Installation >10' To 15', Add	13.55	
			For Elevated Installation >15' To 20', Add	27.09	
			For Elevated Installation >20' To 25', Add	33.86	
			For Elevated Installation >25' To 30', Add	47.41	
			For Elevated Installation >30' To 35', Add	54.18	
			For Elevated Installation >35' To 40', Add	67.73	
			For Elevated Installation >40', Add	74.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.64	
26 05 33 13-0487	EA		6" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	1,504.29	60.14
			For Work In Restricted Working Space, Add	45.11	
			For Elevated Installation >10' To 15', Add	15.04	
			For Elevated Installation >15' To 20', Add	30.07	
			For Elevated Installation >20' To 25', Add	37.59	
			For Elevated Installation >25' To 30', Add	52.62	
			For Elevated Installation >30' To 35', Add	60.14	
			For Elevated Installation >35' To 40', Add	75.18	
			For Elevated Installation >40', Add	82.69	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.11	
26 05 33 13-0488 Rigid Galvanized Steel (RGS) Reducing Bushings (26 05 33 13-0059)					
26 05 33 13-0489	EA		3/4" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing.....	21.94	10.50
			For Work In Restricted Working Space, Add	6.30	
			For Elevated Installation >10' To 15', Add	2.10	
			For Elevated Installation >15' To 20', Add	4.20	
			For Elevated Installation >20' To 25', Add	5.25	
			For Elevated Installation >25' To 30', Add	7.35	
			For Elevated Installation >30' To 35', Add	8.40	
			For Elevated Installation >35' To 40', Add	10.50	
			For Elevated Installation >40', Add	11.54	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.30	
26 05 33 13-0490	EA		1" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing.....	24.09	11.17
			For Work In Restricted Working Space, Add	6.71	
			For Elevated Installation >10' To 15', Add	2.24	
			For Elevated Installation >15' To 20', Add	4.47	
			For Elevated Installation >20' To 25', Add	5.59	
			For Elevated Installation >25' To 30', Add	7.82	
			For Elevated Installation >30' To 35', Add	8.94	
			For Elevated Installation >35' To 40', Add	11.18	
			For Elevated Installation >40', Add	12.29	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.71	
26 05 33 13-0491	EA		1" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing.....	24.77	11.51
			For Work In Restricted Working Space, Add	6.91	
			For Elevated Installation >10' To 15', Add	2.30	
			For Elevated Installation >15' To 20', Add	4.61	
			For Elevated Installation >20' To 25', Add	5.76	
			For Elevated Installation >25' To 30', Add	8.06	
			For Elevated Installation >30' To 35', Add	9.21	
			For Elevated Installation >35' To 40', Add	11.52	
			For Elevated Installation >40', Add	12.67	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.91	
26 05 33 13-0492	EA		1-1/4" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing.....	28.21	11.85
			For Work In Restricted Working Space, Add	7.11	
			For Elevated Installation >10' To 15', Add	2.37	
			For Elevated Installation >15' To 20', Add	4.74	
			For Elevated Installation >20' To 25', Add	5.93	
			For Elevated Installation >25' To 30', Add	8.30	
			For Elevated Installation >30' To 35', Add	9.48	
			For Elevated Installation >35' To 40', Add	11.85	
			For Elevated Installation >40', Add	13.04	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.11	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0493	EA	1-1/4" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing	28.89	12.20
			For Work In Restricted Working Space, Add	7.31	
			For Elevated Installation >10' To 15', Add	2.44	
			For Elevated Installation >15' To 20', Add	4.88	
			For Elevated Installation >20' To 25', Add	6.10	
			For Elevated Installation >25' To 30', Add	8.53	
			For Elevated Installation >30' To 35', Add	9.75	
			For Elevated Installation >35' To 40', Add	12.19	
			For Elevated Installation >40', Add	13.41	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.31	
26 05 33	13-0494	EA	1-1/4" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing	30.24	12.87
			For Work In Restricted Working Space, Add	7.72	
			For Elevated Installation >10' To 15', Add	2.57	
			For Elevated Installation >15' To 20', Add	5.15	
			For Elevated Installation >20' To 25', Add	6.43	
			For Elevated Installation >25' To 30', Add	9.01	
			For Elevated Installation >30' To 35', Add	10.29	
			For Elevated Installation >35' To 40', Add	12.87	
			For Elevated Installation >40', Add	14.15	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.72	
26 05 33	13-0495	EA	1-1/2" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	32.55	13.55
			For Work In Restricted Working Space, Add	8.13	
			For Elevated Installation >10' To 15', Add	2.71	
			For Elevated Installation >15' To 20', Add	5.42	
			For Elevated Installation >20' To 25', Add	6.77	
			For Elevated Installation >25' To 30', Add	9.48	
			For Elevated Installation >30' To 35', Add	10.84	
			For Elevated Installation >35' To 40', Add	13.55	
			For Elevated Installation >40', Add	14.90	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 05 33	13-0496	EA	1-1/2" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing	33.23	13.89
			For Work In Restricted Working Space, Add	8.33	
			For Elevated Installation >10' To 15', Add	2.78	
			For Elevated Installation >15' To 20', Add	5.55	
			For Elevated Installation >20' To 25', Add	6.94	
			For Elevated Installation >25' To 30', Add	9.72	
			For Elevated Installation >30' To 35', Add	11.11	
			For Elevated Installation >35' To 40', Add	13.89	
			For Elevated Installation >40', Add	15.27	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.33	
26 05 33	13-0497	EA	1-1/2" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing	34.58	14.56
			For Work In Restricted Working Space, Add	8.74	
			For Elevated Installation >10' To 15', Add	2.91	
			For Elevated Installation >15' To 20', Add	5.82	
			For Elevated Installation >20' To 25', Add	7.28	
			For Elevated Installation >25' To 30', Add	10.19	
			For Elevated Installation >30' To 35', Add	11.65	
			For Elevated Installation >35' To 40', Add	14.56	
			For Elevated Installation >40', Add	16.02	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.74	
26 05 33	13-0498	EA	1-1/2" x 1-1/4" Rigid Galvanized Steel (RGS) Reducing Bushing	35.93	15.24
			For Work In Restricted Working Space, Add	9.14	
			For Elevated Installation >10' To 15', Add	3.05	
			For Elevated Installation >15' To 20', Add	6.09	
			For Elevated Installation >20' To 25', Add	7.62	
			For Elevated Installation >25' To 30', Add	10.66	
			For Elevated Installation >30' To 35', Add	12.19	
			For Elevated Installation >35' To 40', Add	15.24	
			For Elevated Installation >40', Add	16.76	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.14	
26 05 33	13-0499	EA	2" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	42.46	15.24
			For Work In Restricted Working Space, Add	9.14	
			For Elevated Installation >10' To 15', Add	3.05	
			For Elevated Installation >15' To 20', Add	6.09	
			For Elevated Installation >20' To 25', Add	7.62	
			For Elevated Installation >25' To 30', Add	10.66	
			For Elevated Installation >30' To 35', Add	12.19	
			For Elevated Installation >35' To 40', Add	15.24	
			For Elevated Installation >40', Add	16.76	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.14	
26 05 33	13-0500	EA	2" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing	43.14	15.57
			For Work In Restricted Working Space, Add	9.35	
			For Elevated Installation >10' To 15', Add	3.12	
			For Elevated Installation >15' To 20', Add	6.23	
			For Elevated Installation >20' To 25', Add	7.79	
			For Elevated Installation >25' To 30', Add	10.90	
			For Elevated Installation >30' To 35', Add	12.46	
			For Elevated Installation >35' To 40', Add	15.58	
			For Elevated Installation >40', Add	17.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.35	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0501 EA 2" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing	44.50	16.25
For Work In Restricted Working Space, Add	9.75	
For Elevated Installation >10' To 15', Add	3.25	
For Elevated Installation >15' To 20', Add	6.50	
For Elevated Installation >20' To 25', Add	8.13	
For Elevated Installation >25' To 30', Add	11.38	
For Elevated Installation >30' To 35', Add	13.00	
For Elevated Installation >35' To 40', Add	16.26	
For Elevated Installation >40', Add	17.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.75	
26 05 33 13-0502 EA 2" x 1-1/4" Rigid Galvanized Steel (RGS) Reducing Bushing	45.85	16.94
For Work In Restricted Working Space, Add	10.16	
For Elevated Installation >10' To 15', Add	3.39	
For Elevated Installation >15' To 20', Add	6.77	
For Elevated Installation >20' To 25', Add	8.47	
For Elevated Installation >25' To 30', Add	11.85	
For Elevated Installation >30' To 35', Add	13.54	
For Elevated Installation >35' To 40', Add	16.93	
For Elevated Installation >40', Add	18.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	
26 05 33 13-0503 EA 2" x 1-1/2" Rigid Galvanized Steel (RGS) Reducing Bushing	49.24	18.63
For Work In Restricted Working Space, Add	11.18	
For Elevated Installation >10' To 15', Add	3.73	
For Elevated Installation >15' To 20', Add	7.45	
For Elevated Installation >20' To 25', Add	9.31	
For Elevated Installation >25' To 30', Add	13.04	
For Elevated Installation >30' To 35', Add	14.90	
For Elevated Installation >35' To 40', Add	18.63	
For Elevated Installation >40', Add	20.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.18	
26 05 33 13-0504 EA 2-1/2" x 2" Rigid Galvanized Steel (RGS) Reducing Bushing	61.79	22.02
For Work In Restricted Working Space, Add	13.21	
For Elevated Installation >10' To 15', Add	4.40	
For Elevated Installation >15' To 20', Add	8.80	
For Elevated Installation >20' To 25', Add	11.01	
For Elevated Installation >25' To 30', Add	15.41	
For Elevated Installation >30' To 35', Add	17.61	
For Elevated Installation >35' To 40', Add	22.01	
For Elevated Installation >40', Add	24.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.21	
26 05 33 13-0505 Rigid Galvanized Steel (RGS) Locknuts (26 05 33 13-0509)		
26 05 33 13-0506 EA 1/2" Rigid Galvanized Steel (RGS) Locknuts	2.80	1.35
For Work In Restricted Working Space, Add	0.81	
For Elevated Installation >10' To 15', Add	0.27	
For Elevated Installation >15' To 20', Add	0.54	
For Elevated Installation >20' To 25', Add	0.68	
For Elevated Installation >25' To 30', Add	0.95	
For Elevated Installation >30' To 35', Add	1.08	
For Elevated Installation >35' To 40', Add	1.36	
For Elevated Installation >40', Add	1.49	
26 05 33 13-0507 EA 3/4" Rigid Galvanized Steel (RGS) Locknuts	4.19	2.03
For Work In Restricted Working Space, Add	1.22	
For Elevated Installation >10' To 15', Add	0.41	
For Elevated Installation >15' To 20', Add	0.81	
For Elevated Installation >20' To 25', Add	1.02	
For Elevated Installation >25' To 30', Add	1.42	
For Elevated Installation >30' To 35', Add	1.63	
For Elevated Installation >35' To 40', Add	2.04	
For Elevated Installation >40', Add	2.24	
26 05 33 13-0508 EA 1" Rigid Galvanized Steel (RGS) Locknuts	6.97	3.39
For Work In Restricted Working Space, Add	2.03	
For Elevated Installation >10' To 15', Add	0.68	
For Elevated Installation >15' To 20', Add	1.35	
For Elevated Installation >20' To 25', Add	1.69	
For Elevated Installation >25' To 30', Add	2.37	
For Elevated Installation >30' To 35', Add	2.71	
For Elevated Installation >35' To 40', Add	3.39	
For Elevated Installation >40', Add	3.72	
26 05 33 13-0509 EA 1-1/4" Rigid Galvanized Steel (RGS) Locknuts	9.81	4.74
For Work In Restricted Working Space, Add	2.84	
For Elevated Installation >10' To 15', Add	0.95	
For Elevated Installation >15' To 20', Add	1.90	
For Elevated Installation >20' To 25', Add	2.37	
For Elevated Installation >25' To 30', Add	3.32	
For Elevated Installation >30' To 35', Add	3.79	
For Elevated Installation >35' To 40', Add	4.74	
For Elevated Installation >40', Add	5.21	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0510 EA 1-1/2" Rigid Galvanized Steel (RGS) Locknuts.....	11.26	5.42
For Work In Restricted Working Space, Add	3.25	
For Elevated Installation >10' To 15', Add	1.08	
For Elevated Installation >15' To 20', Add	2.17	
For Elevated Installation >20' To 25', Add	2.71	
For Elevated Installation >25' To 30', Add	3.79	
For Elevated Installation >30' To 35', Add	4.33	
For Elevated Installation >35' To 40', Add	5.42	
For Elevated Installation >40', Add	5.96	
26 05 33 13-0511 EA 2" Rigid Galvanized Steel (RGS) Locknuts.....	12.73	6.09
For Work In Restricted Working Space, Add	3.66	
For Elevated Installation >10' To 15', Add	1.22	
For Elevated Installation >15' To 20', Add	2.44	
For Elevated Installation >20' To 25', Add	3.05	
For Elevated Installation >25' To 30', Add	4.27	
For Elevated Installation >30' To 35', Add	4.88	
For Elevated Installation >35' To 40', Add	6.10	
For Elevated Installation >40', Add	6.71	
26 05 33 13-0512 EA 2-1/2" Rigid Galvanized Steel (RGS) Locknuts.....	17.67	8.13
For Work In Restricted Working Space, Add	4.88	
For Elevated Installation >10' To 15', Add	1.63	
For Elevated Installation >15' To 20', Add	3.25	
For Elevated Installation >20' To 25', Add	4.06	
For Elevated Installation >25' To 30', Add	5.69	
For Elevated Installation >30' To 35', Add	6.50	
For Elevated Installation >35' To 40', Add	8.13	
For Elevated Installation >40', Add	8.94	
26 05 33 13-0513 EA 3" Rigid Galvanized Steel (RGS) Locknuts.....	21.89	10.16
For Work In Restricted Working Space, Add	6.10	
For Elevated Installation >10' To 15', Add	2.03	
For Elevated Installation >15' To 20', Add	4.06	
For Elevated Installation >20' To 25', Add	5.08	
For Elevated Installation >25' To 30', Add	7.11	
For Elevated Installation >30' To 35', Add	8.13	
For Elevated Installation >35' To 40', Add	10.16	
For Elevated Installation >40', Add	11.18	
26 05 33 13-0514 EA 3-1/2" Rigid Galvanized Steel (RGS) Locknuts.....	25.64	11.51
For Work In Restricted Working Space, Add	6.91	
For Elevated Installation >10' To 15', Add	2.30	
For Elevated Installation >15' To 20', Add	4.61	
For Elevated Installation >20' To 25', Add	5.76	
For Elevated Installation >25' To 30', Add	8.06	
For Elevated Installation >30' To 35', Add	9.21	
For Elevated Installation >35' To 40', Add	11.52	
For Elevated Installation >40', Add	12.67	
26 05 33 13-0515 EA 4" Rigid Galvanized Steel (RGS) Locknuts.....	28.73	12.87
For Work In Restricted Working Space, Add	7.72	
For Elevated Installation >10' To 15', Add	2.57	
For Elevated Installation >15' To 20', Add	5.15	
For Elevated Installation >20' To 25', Add	6.43	
For Elevated Installation >25' To 30', Add	9.01	
For Elevated Installation >30' To 35', Add	10.29	
For Elevated Installation >35' To 40', Add	12.87	
For Elevated Installation >40', Add	14.15	
26 05 33 13-0516 Rigid Galvanized Steel (RGS) Grounding Locknuts (26 05 33 13-0059)		
26 05 33 13-0517 EA 1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	4.01	1.35
For Work In Restricted Working Space, Add	0.81	
For Elevated Installation >10' To 15', Add	0.27	
For Elevated Installation >15' To 20', Add	0.54	
For Elevated Installation >20' To 25', Add	0.68	
For Elevated Installation >25' To 30', Add	0.95	
For Elevated Installation >30' To 35', Add	1.08	
For Elevated Installation >35' To 40', Add	1.36	
For Elevated Installation >40', Add	1.49	
26 05 33 13-0518 EA 3/4" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	5.63	2.03
For Work In Restricted Working Space, Add	1.22	
For Elevated Installation >10' To 15', Add	0.41	
For Elevated Installation >15' To 20', Add	0.81	
For Elevated Installation >20' To 25', Add	1.02	
For Elevated Installation >25' To 30', Add	1.42	
For Elevated Installation >30' To 35', Add	1.63	
For Elevated Installation >35' To 40', Add	2.04	
For Elevated Installation >40', Add	2.24	
26 05 33 13-0519 EA 1" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	9.00	3.39
For Work In Restricted Working Space, Add	2.03	
For Elevated Installation >10' To 15', Add	0.68	
For Elevated Installation >15' To 20', Add	1.35	
For Elevated Installation >20' To 25', Add	1.69	
For Elevated Installation >25' To 30', Add	2.37	
For Elevated Installation >30' To 35', Add	2.71	
For Elevated Installation >35' To 40', Add	3.39	
For Elevated Installation >40', Add	3.72	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0520 EA 1-1/4" Rigid Galvanized Steel (RGS) Grounding Locknuts	12.59	4.74
For Work In Restricted Working Space, Add	2.84	
For Elevated Installation >10' To 15', Add	0.95	
For Elevated Installation >15' To 20', Add	1.90	
For Elevated Installation >20' To 25', Add	2.37	
For Elevated Installation >25' To 30', Add	3.32	
For Elevated Installation >30' To 35', Add	3.79	
For Elevated Installation >35' To 40', Add	4.74	
For Elevated Installation >40', Add	5.21	
26 05 33 13-0521 EA 1-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts	14.23	5.42
For Work In Restricted Working Space, Add	3.25	
For Elevated Installation >10' To 15', Add	1.08	
For Elevated Installation >15' To 20', Add	2.17	
For Elevated Installation >20' To 25', Add	2.71	
For Elevated Installation >25' To 30', Add	3.79	
For Elevated Installation >30' To 35', Add	4.33	
For Elevated Installation >35' To 40', Add	5.42	
For Elevated Installation >40', Add	5.96	
26 05 33 13-0522 EA 2" Rigid Galvanized Steel (RGS) Grounding Locknuts	16.63	6.09
For Work In Restricted Working Space, Add	3.66	
For Elevated Installation >10' To 15', Add	1.22	
For Elevated Installation >15' To 20', Add	2.44	
For Elevated Installation >20' To 25', Add	3.05	
For Elevated Installation >25' To 30', Add	4.27	
For Elevated Installation >30' To 35', Add	4.88	
For Elevated Installation >35' To 40', Add	6.10	
For Elevated Installation >40', Add	6.71	
26 05 33 13-0523 EA 2-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts	24.49	8.13
For Work In Restricted Working Space, Add	4.88	
For Elevated Installation >10' To 15', Add	1.63	
For Elevated Installation >15' To 20', Add	3.25	
For Elevated Installation >20' To 25', Add	4.06	
For Elevated Installation >25' To 30', Add	5.69	
For Elevated Installation >30' To 35', Add	6.50	
For Elevated Installation >35' To 40', Add	8.13	
For Elevated Installation >40', Add	8.94	
26 05 33 13-0524 EA 3" Rigid Galvanized Steel (RGS) Grounding Locknuts	30.78	10.16
For Work In Restricted Working Space, Add	6.10	
For Elevated Installation >10' To 15', Add	2.03	
For Elevated Installation >15' To 20', Add	4.06	
For Elevated Installation >20' To 25', Add	5.08	
For Elevated Installation >25' To 30', Add	7.11	
For Elevated Installation >30' To 35', Add	8.13	
For Elevated Installation >35' To 40', Add	10.16	
For Elevated Installation >40', Add	11.18	
26 05 33 13-0525 EA 3-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts	40.02	11.51
For Work In Restricted Working Space, Add	6.91	
For Elevated Installation >10' To 15', Add	2.30	
For Elevated Installation >15' To 20', Add	4.61	
For Elevated Installation >20' To 25', Add	5.76	
For Elevated Installation >25' To 30', Add	8.06	
For Elevated Installation >30' To 35', Add	9.21	
For Elevated Installation >35' To 40', Add	11.52	
For Elevated Installation >40', Add	12.67	
26 05 33 13-0526 EA 4" Rigid Galvanized Steel (RGS) Grounding Locknuts	47.64	12.87
For Work In Restricted Working Space, Add	7.72	
For Elevated Installation >10' To 15', Add	2.57	
For Elevated Installation >15' To 20', Add	5.15	
For Elevated Installation >20' To 25', Add	6.43	
For Elevated Installation >25' To 30', Add	9.01	
For Elevated Installation >30' To 35', Add	10.29	
For Elevated Installation >35' To 40', Add	12.87	
For Elevated Installation >40', Add	14.15	
26 05 33 13-0527 Rigid Galvanized Steel (RGS) Insulated Ground Bushing (26 05 33 13-0059)		
26 05 33 13-0528 EA 1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing	11.38	4.07
For Work In Restricted Working Space, Add	2.44	
For Elevated Installation >10' To 15', Add	0.81	
For Elevated Installation >15' To 20', Add	1.63	
For Elevated Installation >20' To 25', Add	2.03	
For Elevated Installation >25' To 30', Add	2.85	
For Elevated Installation >30' To 35', Add	3.25	
For Elevated Installation >35' To 40', Add	4.07	
For Elevated Installation >40', Add	4.47	
26 05 33 13-0529 EA 3/4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing	14.36	5.42
For Work In Restricted Working Space, Add	3.25	
For Elevated Installation >10' To 15', Add	1.08	
For Elevated Installation >15' To 20', Add	2.17	
For Elevated Installation >20' To 25', Add	2.71	
For Elevated Installation >25' To 30', Add	3.79	
For Elevated Installation >30' To 35', Add	4.33	
For Elevated Installation >35' To 40', Add	5.42	
For Elevated Installation >40', Add	5.96	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0530	EA	1" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	18.30	6.77
		For Work In Restricted Working Space, Add	4.07	
		For Elevated Installation >10' To 15', Add	1.36	
		For Elevated Installation >15' To 20', Add	2.71	
		For Elevated Installation >20' To 25', Add	3.39	
		For Elevated Installation >25' To 30', Add	4.74	
		For Elevated Installation >30' To 35', Add	5.42	
		For Elevated Installation >35' To 40', Add	6.78	
		For Elevated Installation >40', Add	7.45	
26 05 33 13-0531	EA	1-1/4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	26.97	10.83
		For Work In Restricted Working Space, Add	6.50	
		For Elevated Installation >10' To 15', Add	2.17	
		For Elevated Installation >15' To 20', Add	4.33	
		For Elevated Installation >20' To 25', Add	5.42	
		For Elevated Installation >25' To 30', Add	7.58	
		For Elevated Installation >30' To 35', Add	8.67	
		For Elevated Installation >35' To 40', Add	10.84	
		For Elevated Installation >40', Add	11.92	
26 05 33 13-0532	EA	1-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	30.38	12.20
		For Work In Restricted Working Space, Add	7.31	
		For Elevated Installation >10' To 15', Add	2.44	
		For Elevated Installation >15' To 20', Add	4.88	
		For Elevated Installation >20' To 25', Add	6.10	
		For Elevated Installation >25' To 30', Add	8.53	
		For Elevated Installation >30' To 35', Add	9.75	
		For Elevated Installation >35' To 40', Add	12.19	
		For Elevated Installation >40', Add	13.41	
26 05 33 13-0533	EA	2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	34.45	13.55
		For Work In Restricted Working Space, Add	8.13	
		For Elevated Installation >10' To 15', Add	2.71	
		For Elevated Installation >15' To 20', Add	5.42	
		For Elevated Installation >20' To 25', Add	6.77	
		For Elevated Installation >25' To 30', Add	9.48	
		For Elevated Installation >30' To 35', Add	10.84	
		For Elevated Installation >35' To 40', Add	13.55	
		For Elevated Installation >40', Add	14.90	
26 05 33 13-0534	EA	2-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	46.73	16.25
		For Work In Restricted Working Space, Add	9.75	
		For Elevated Installation >10' To 15', Add	3.25	
		For Elevated Installation >15' To 20', Add	6.50	
		For Elevated Installation >20' To 25', Add	8.13	
		For Elevated Installation >25' To 30', Add	11.38	
		For Elevated Installation >30' To 35', Add	13.00	
		For Elevated Installation >35' To 40', Add	16.26	
		For Elevated Installation >40', Add	17.88	
26 05 33 13-0535	EA	3" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	56.92	20.32
		For Work In Restricted Working Space, Add	12.19	
		For Elevated Installation >10' To 15', Add	4.06	
		For Elevated Installation >15' To 20', Add	8.13	
		For Elevated Installation >20' To 25', Add	10.16	
		For Elevated Installation >25' To 30', Add	14.22	
		For Elevated Installation >30' To 35', Add	16.25	
		For Elevated Installation >35' To 40', Add	20.32	
		For Elevated Installation >40', Add	22.35	
26 05 33 13-0536	EA	3-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	71.01	27.09
		For Work In Restricted Working Space, Add	16.25	
		For Elevated Installation >10' To 15', Add	5.42	
		For Elevated Installation >15' To 20', Add	10.84	
		For Elevated Installation >20' To 25', Add	13.55	
		For Elevated Installation >25' To 30', Add	18.96	
		For Elevated Installation >30' To 35', Add	21.67	
		For Elevated Installation >35' To 40', Add	27.09	
		For Elevated Installation >40', Add	29.80	
26 05 33 13-0537	EA	4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	86.76	33.86
		For Work In Restricted Working Space, Add	20.32	
		For Elevated Installation >10' To 15', Add	6.77	
		For Elevated Installation >15' To 20', Add	13.55	
		For Elevated Installation >20' To 25', Add	16.93	
		For Elevated Installation >25' To 30', Add	23.71	
		For Elevated Installation >30' To 35', Add	27.09	
		For Elevated Installation >35' To 40', Add	33.87	
		For Elevated Installation >40', Add	37.25	
26 05 33 13-0538		Rigid Galvanized Steel (RGS) Threadless Compression Connectors (26 05 33 13-0059)		
26 05 33 13-0539	EA	1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	28.09	12.20
		For Work In Restricted Working Space, Add	7.31	
		For Elevated Installation >10' To 15', Add	2.44	
		For Elevated Installation >15' To 20', Add	4.88	
		For Elevated Installation >20' To 25', Add	6.10	
		For Elevated Installation >25' To 30', Add	8.53	
		For Elevated Installation >30' To 35', Add	9.75	
		For Elevated Installation >35' To 40', Add	12.19	
		For Elevated Installation >40', Add	13.41	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0540 EA 3/4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors 33.06		13.55
For Work In Restricted Working Space, Add	8.13	
For Elevated Installation >10' To 15', Add	2.71	
For Elevated Installation >15' To 20', Add	5.42	
For Elevated Installation >20' To 25', Add	6.77	
For Elevated Installation >25' To 30', Add	9.48	
For Elevated Installation >30' To 35', Add	10.84	
For Elevated Installation >35' To 40', Add	13.55	
For Elevated Installation >40', Add	14.90	
26 05 33 13-0541 EA 1" Rigid Galvanized Steel (RGS) Threadless Compression Connectors 43.18		16.94
For Work In Restricted Working Space, Add	10.16	
For Elevated Installation >10' To 15', Add	3.39	
For Elevated Installation >15' To 20', Add	6.77	
For Elevated Installation >20' To 25', Add	8.47	
For Elevated Installation >25' To 30', Add	11.85	
For Elevated Installation >30' To 35', Add	13.54	
For Elevated Installation >35' To 40', Add	16.93	
For Elevated Installation >40', Add	18.62	
26 05 33 13-0542 EA 1-1/4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors 58.18		20.32
For Work In Restricted Working Space, Add	12.19	
For Elevated Installation >10' To 15', Add	4.06	
For Elevated Installation >15' To 20', Add	8.13	
For Elevated Installation >20' To 25', Add	10.16	
For Elevated Installation >25' To 30', Add	14.22	
For Elevated Installation >30' To 35', Add	16.25	
For Elevated Installation >35' To 40', Add	20.32	
For Elevated Installation >40', Add	22.35	
26 05 33 13-0543 EA 1-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors 78.48		27.09
For Work In Restricted Working Space, Add	16.25	
For Elevated Installation >10' To 15', Add	5.42	
For Elevated Installation >15' To 20', Add	10.84	
For Elevated Installation >20' To 25', Add	13.55	
For Elevated Installation >25' To 30', Add	18.96	
For Elevated Installation >30' To 35', Add	21.67	
For Elevated Installation >35' To 40', Add	27.09	
For Elevated Installation >40', Add	29.80	
26 05 33 13-0544 EA 2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors 114.36		33.86
For Work In Restricted Working Space, Add	20.32	
For Elevated Installation >10' To 15', Add	6.77	
For Elevated Installation >15' To 20', Add	13.55	
For Elevated Installation >20' To 25', Add	16.93	
For Elevated Installation >25' To 30', Add	23.71	
For Elevated Installation >30' To 35', Add	27.09	
For Elevated Installation >35' To 40', Add	33.87	
For Elevated Installation >40', Add	37.25	
26 05 33 13-0545 EA 2-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors 188.83		40.63
For Work In Restricted Working Space, Add	24.38	
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.51	
For Elevated Installation >35' To 40', Add	40.64	
For Elevated Installation >40', Add	44.70	
26 05 33 13-0546 EA 3" Rigid Galvanized Steel (RGS) Threadless Compression Connectors 237.43		47.41
For Work In Restricted Working Space, Add	28.45	
For Elevated Installation >10' To 15', Add	9.48	
For Elevated Installation >15' To 20', Add	18.96	
For Elevated Installation >20' To 25', Add	23.71	
For Elevated Installation >25' To 30', Add	33.19	
For Elevated Installation >30' To 35', Add	37.93	
For Elevated Installation >35' To 40', Add	47.41	
For Elevated Installation >40', Add	52.15	
26 05 33 13-0547 EA 3-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors 301.50		57.57
For Work In Restricted Working Space, Add	34.54	
For Elevated Installation >10' To 15', Add	11.51	
For Elevated Installation >15' To 20', Add	23.03	
For Elevated Installation >20' To 25', Add	28.79	
For Elevated Installation >25' To 30', Add	40.30	
For Elevated Installation >30' To 35', Add	46.06	
For Elevated Installation >35' To 40', Add	57.57	
For Elevated Installation >40', Add	63.33	
26 05 33 13-0548 EA 4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors 363.59		67.73
For Work In Restricted Working Space, Add	40.64	
For Elevated Installation >10' To 15', Add	13.55	
For Elevated Installation >15' To 20', Add	27.09	
For Elevated Installation >20' To 25', Add	33.86	
For Elevated Installation >25' To 30', Add	47.41	
For Elevated Installation >30' To 35', Add	54.18	
For Elevated Installation >35' To 40', Add	67.73	
For Elevated Installation >40', Add	74.50	

26 05 33 13-0549 Rigid Galvanized Steel (RGS) Compression Coupling (26 05 33 13-0059)



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0550	EA	1/2" Rigid Galvanized Steel (RGS) Compression Coupling	39.84	16.94
			For Work In Restricted Working Space, Add	10.16	
			For Elevated Installation >10' To 15', Add	3.39	
			For Elevated Installation >15' To 20', Add	6.77	
			For Elevated Installation >20' To 25', Add	8.47	
			For Elevated Installation >25' To 30', Add	11.85	
			For Elevated Installation >30' To 35', Add	13.54	
			For Elevated Installation >35' To 40', Add	16.93	
			For Elevated Installation >40', Add	18.62	
26 05 33	13-0551	EA	3/4" Rigid Galvanized Steel (RGS) Compression Coupling	50.22	20.32
			For Work In Restricted Working Space, Add	12.19	
			For Elevated Installation >10' To 15', Add	4.06	
			For Elevated Installation >15' To 20', Add	8.13	
			For Elevated Installation >20' To 25', Add	10.16	
			For Elevated Installation >25' To 30', Add	14.22	
			For Elevated Installation >30' To 35', Add	16.25	
			For Elevated Installation >35' To 40', Add	20.32	
			For Elevated Installation >40', Add	22.35	
26 05 33	13-0552	EA	1" Rigid Galvanized Steel (RGS) Compression Coupling	70.91	27.09
			For Work In Restricted Working Space, Add	16.25	
			For Elevated Installation >10' To 15', Add	5.42	
			For Elevated Installation >15' To 20', Add	10.84	
			For Elevated Installation >20' To 25', Add	13.55	
			For Elevated Installation >25' To 30', Add	18.96	
			For Elevated Installation >30' To 35', Add	21.67	
			For Elevated Installation >35' To 40', Add	27.09	
			For Elevated Installation >40', Add	29.80	
26 05 33	13-0553	EA	1-1/4" Rigid Galvanized Steel (RGS) Compression Coupling	92.50	33.86
			For Work In Restricted Working Space, Add	20.32	
			For Elevated Installation >10' To 15', Add	6.77	
			For Elevated Installation >15' To 20', Add	13.55	
			For Elevated Installation >20' To 25', Add	16.93	
			For Elevated Installation >25' To 30', Add	23.71	
			For Elevated Installation >30' To 35', Add	27.09	
			For Elevated Installation >35' To 40', Add	33.87	
			For Elevated Installation >40', Add	37.25	
26 05 33	13-0554	EA	1-1/2" Rigid Galvanized Steel (RGS) Compression Coupling	113.51	40.63
			For Work In Restricted Working Space, Add	24.38	
			For Elevated Installation >10' To 15', Add	8.13	
			For Elevated Installation >15' To 20', Add	16.25	
			For Elevated Installation >20' To 25', Add	20.32	
			For Elevated Installation >25' To 30', Add	28.44	
			For Elevated Installation >30' To 35', Add	32.51	
			For Elevated Installation >35' To 40', Add	40.64	
			For Elevated Installation >40', Add	44.70	
26 05 33	13-0555	EA	2" Rigid Galvanized Steel (RGS) Compression Coupling	165.34	47.41
			For Work In Restricted Working Space, Add	28.45	
			For Elevated Installation >10' To 15', Add	9.48	
			For Elevated Installation >15' To 20', Add	18.96	
			For Elevated Installation >20' To 25', Add	23.71	
			For Elevated Installation >25' To 30', Add	33.19	
			For Elevated Installation >30' To 35', Add	37.93	
			For Elevated Installation >35' To 40', Add	47.41	
			For Elevated Installation >40', Add	52.15	
26 05 33	13-0556	EA	2-1/2" Rigid Galvanized Steel (RGS) Compression Coupling	256.90	54.18
			For Work In Restricted Working Space, Add	32.51	
			For Elevated Installation >10' To 15', Add	10.84	
			For Elevated Installation >15' To 20', Add	21.67	
			For Elevated Installation >20' To 25', Add	27.09	
			For Elevated Installation >25' To 30', Add	37.93	
			For Elevated Installation >30' To 35', Add	43.34	
			For Elevated Installation >35' To 40', Add	54.18	
			For Elevated Installation >40', Add	59.60	
26 05 33	13-0557	EA	3" Rigid Galvanized Steel (RGS) Compression Coupling	290.25	46.73
			For Work In Restricted Working Space, Add	28.04	
			For Elevated Installation >10' To 15', Add	9.35	
			For Elevated Installation >15' To 20', Add	18.69	
			For Elevated Installation >20' To 25', Add	23.37	
			For Elevated Installation >25' To 30', Add	32.71	
			For Elevated Installation >30' To 35', Add	37.38	
			For Elevated Installation >35' To 40', Add	46.73	
			For Elevated Installation >40', Add	51.40	
26 05 33	13-0558	EA	3-1/2" Rigid Galvanized Steel (RGS) Compression Coupling	401.29	71.11
			For Work In Restricted Working Space, Add	42.67	
			For Elevated Installation >10' To 15', Add	14.22	
			For Elevated Installation >15' To 20', Add	28.45	
			For Elevated Installation >20' To 25', Add	35.56	
			For Elevated Installation >25' To 30', Add	49.78	
			For Elevated Installation >30' To 35', Add	56.89	
			For Elevated Installation >35' To 40', Add	71.12	
			For Elevated Installation >40', Add	78.23	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0559 EA 4" Rigid Galvanized Steel (RGS) Compression Coupling	494.03	81.27
For Work In Restricted Working Space, Add	48.76	
For Elevated Installation >10' To 15', Add	16.25	
For Elevated Installation >15' To 20', Add	32.51	
For Elevated Installation >20' To 25', Add	40.64	
For Elevated Installation >25' To 30', Add	56.89	
For Elevated Installation >30' To 35', Add	65.02	
For Elevated Installation >35' To 40', Add	81.27	
For Elevated Installation >40', Add	89.40	
26 05 33 13-0560 Zinc Plated Steel Snap-in Knock Out Seal (26 05 33 13-0059)		
26 05 33 13-0561 EA 1/2" Zinc Plated Steel Snap-in Knock Out Seal	7.05	3.39
For Work In Restricted Working Space, Add	2.03	
For Elevated Installation >10' To 15', Add	0.68	
For Elevated Installation >15' To 20', Add	1.35	
For Elevated Installation >20' To 25', Add	1.69	
For Elevated Installation >25' To 30', Add	2.37	
For Elevated Installation >30' To 35', Add	2.71	
For Elevated Installation >35' To 40', Add	3.39	
For Elevated Installation >40', Add	3.72	
26 05 33 13-0562 EA 3/4" Zinc Plated Steel Snap-in Knock Out Seal	8.49	4.07
For Work In Restricted Working Space, Add	2.44	
For Elevated Installation >10' To 15', Add	0.81	
For Elevated Installation >15' To 20', Add	1.63	
For Elevated Installation >20' To 25', Add	2.03	
For Elevated Installation >25' To 30', Add	2.85	
For Elevated Installation >30' To 35', Add	3.25	
For Elevated Installation >35' To 40', Add	4.07	
For Elevated Installation >40', Add	4.47	
26 05 33 13-0563 EA 1" Zinc Plated Steel Snap-in Knock Out Seal	10.05	4.74
For Work In Restricted Working Space, Add	2.84	
For Elevated Installation >10' To 15', Add	0.95	
For Elevated Installation >15' To 20', Add	1.90	
For Elevated Installation >20' To 25', Add	2.37	
For Elevated Installation >25' To 30', Add	3.32	
For Elevated Installation >30' To 35', Add	3.79	
For Elevated Installation >35' To 40', Add	4.74	
For Elevated Installation >40', Add	5.21	
26 05 33 13-0564 EA 1-1/4" Zinc Plated Steel Snap-in Knock Out Seal	12.95	6.09
For Work In Restricted Working Space, Add	3.66	
For Elevated Installation >10' To 15', Add	1.22	
For Elevated Installation >15' To 20', Add	2.44	
For Elevated Installation >20' To 25', Add	3.05	
For Elevated Installation >25' To 30', Add	4.27	
For Elevated Installation >30' To 35', Add	4.88	
For Elevated Installation >35' To 40', Add	6.10	
For Elevated Installation >40', Add	6.71	
26 05 33 13-0565 EA 1-1/2" Zinc Plated Steel Snap-in Knock Out Seal	14.60	6.77
For Work In Restricted Working Space, Add	4.07	
For Elevated Installation >10' To 15', Add	1.36	
For Elevated Installation >15' To 20', Add	2.71	
For Elevated Installation >20' To 25', Add	3.39	
For Elevated Installation >25' To 30', Add	4.74	
For Elevated Installation >30' To 35', Add	5.42	
For Elevated Installation >35' To 40', Add	6.78	
For Elevated Installation >40', Add	7.45	
26 05 33 13-0566 EA 2" Zinc Plated Steel Snap-in Knock Out Seal	17.72	8.13
For Work In Restricted Working Space, Add	4.88	
For Elevated Installation >10' To 15', Add	1.63	
For Elevated Installation >15' To 20', Add	3.25	
For Elevated Installation >20' To 25', Add	4.06	
For Elevated Installation >25' To 30', Add	5.69	
For Elevated Installation >30' To 35', Add	6.50	
For Elevated Installation >35' To 40', Add	8.13	
For Elevated Installation >40', Add	8.94	
26 05 33 13-0567 Zinc Plated Steel 3-Piece Knock Out Seal (26 05 33 13-0059)		
26 05 33 13-0568 EA 1/2" Zinc Plated Steel 3-Piece Knock Out Seal	8.42	3.39
For Work In Restricted Working Space, Add	2.03	
For Elevated Installation >10' To 15', Add	0.68	
For Elevated Installation >15' To 20', Add	1.35	
For Elevated Installation >20' To 25', Add	1.69	
For Elevated Installation >25' To 30', Add	2.37	
For Elevated Installation >30' To 35', Add	2.71	
For Elevated Installation >35' To 40', Add	3.39	
For Elevated Installation >40', Add	3.72	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0569 EA 3/4" Zinc Plated Steel 3-Piece Knock Out Seal	10.05	4.07
For Work In Restricted Working Space, Add	2.44	
For Elevated Installation >10' To 15', Add	0.81	
For Elevated Installation >15' To 20', Add	1.63	
For Elevated Installation >20' To 25', Add	2.03	
For Elevated Installation >25' To 30', Add	2.85	
For Elevated Installation >30' To 35', Add	3.25	
For Elevated Installation >35' To 40', Add	4.07	
For Elevated Installation >40', Add	4.47	
26 05 33 13-0570 EA 1" Zinc Plated Steel 3-Piece Knock Out Seal	12.13	4.74
For Work In Restricted Working Space, Add	2.84	
For Elevated Installation >10' To 15', Add	0.95	
For Elevated Installation >15' To 20', Add	1.90	
For Elevated Installation >20' To 25', Add	2.37	
For Elevated Installation >25' To 30', Add	3.32	
For Elevated Installation >30' To 35', Add	3.79	
For Elevated Installation >35' To 40', Add	4.74	
For Elevated Installation >40', Add	5.21	
26 05 33 13-0571 EA 1-1/4" Zinc Plated Steel 3-Piece Knock Out Seal	15.61	6.09
For Work In Restricted Working Space, Add	3.66	
For Elevated Installation >10' To 15', Add	1.22	
For Elevated Installation >15' To 20', Add	2.44	
For Elevated Installation >20' To 25', Add	3.05	
For Elevated Installation >25' To 30', Add	4.27	
For Elevated Installation >30' To 35', Add	4.88	
For Elevated Installation >35' To 40', Add	6.10	
For Elevated Installation >40', Add	6.71	
26 05 33 13-0572 EA 1-1/2" Zinc Plated Steel 3-Piece Knock Out Seal	18.99	6.77
For Work In Restricted Working Space, Add	4.07	
For Elevated Installation >10' To 15', Add	1.36	
For Elevated Installation >15' To 20', Add	2.71	
For Elevated Installation >20' To 25', Add	3.39	
For Elevated Installation >25' To 30', Add	4.74	
For Elevated Installation >30' To 35', Add	5.42	
For Elevated Installation >35' To 40', Add	6.78	
For Elevated Installation >40', Add	7.45	
26 05 33 13-0573 EA 2" Zinc Plated Steel 3-Piece Knock Out Seal	22.95	8.13
For Work In Restricted Working Space, Add	4.88	
For Elevated Installation >10' To 15', Add	1.63	
For Elevated Installation >15' To 20', Add	3.25	
For Elevated Installation >20' To 25', Add	4.06	
For Elevated Installation >25' To 30', Add	5.69	
For Elevated Installation >30' To 35', Add	6.50	
For Elevated Installation >35' To 40', Add	8.13	
For Elevated Installation >40', Add	8.94	
26 05 33 13-0574 EA 2-1/2" Zinc Plated Steel 3-Piece Knock Out Seal	28.20	10.16
For Work In Restricted Working Space, Add	6.10	
For Elevated Installation >10' To 15', Add	2.03	
For Elevated Installation >15' To 20', Add	4.06	
For Elevated Installation >20' To 25', Add	5.08	
For Elevated Installation >25' To 30', Add	7.11	
For Elevated Installation >30' To 35', Add	8.13	
For Elevated Installation >35' To 40', Add	10.16	
For Elevated Installation >40', Add	11.18	
26 05 33 13-0575 EA 3" Zinc Plated Steel 3-Piece Knock Out Seal	32.87	11.51
For Work In Restricted Working Space, Add	6.91	
For Elevated Installation >10' To 15', Add	2.30	
For Elevated Installation >15' To 20', Add	4.61	
For Elevated Installation >20' To 25', Add	5.76	
For Elevated Installation >25' To 30', Add	8.06	
For Elevated Installation >30' To 35', Add	9.21	
For Elevated Installation >35' To 40', Add	11.52	
For Elevated Installation >40', Add	12.67	
26 05 33 13-0576 EA 3-1/2" Zinc Plated Steel 3-Piece Knock Out Seal	39.59	12.87
For Work In Restricted Working Space, Add	7.72	
For Elevated Installation >10' To 15', Add	2.57	
For Elevated Installation >15' To 20', Add	5.15	
For Elevated Installation >20' To 25', Add	6.43	
For Elevated Installation >25' To 30', Add	9.01	
For Elevated Installation >30' To 35', Add	10.29	
For Elevated Installation >35' To 40', Add	12.87	
For Elevated Installation >40', Add	14.15	
26 05 33 13-0577 EA 4" Zinc Plated Steel 3-Piece Knock Out Seal	46.23	14.22
For Work In Restricted Working Space, Add	8.54	
For Elevated Installation >10' To 15', Add	2.85	
For Elevated Installation >15' To 20', Add	5.69	
For Elevated Installation >20' To 25', Add	7.11	
For Elevated Installation >25' To 30', Add	9.96	
For Elevated Installation >30' To 35', Add	11.38	
For Elevated Installation >35' To 40', Add	14.23	
For Elevated Installation >40', Add	15.65	

26 05 33 13-0578 Rigid Galvanized Steel (RGS) Chase Nipples (26 05 33 13-0059)

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0579 EA 1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	16.67	8.13
For Work In Restricted Working Space, Add	4.88	
For Elevated Installation >10' To 15', Add	1.63	
For Elevated Installation >15' To 20', Add	3.25	
For Elevated Installation >20' To 25', Add	4.06	
For Elevated Installation >25' To 30', Add	5.69	
For Elevated Installation >30' To 35', Add	6.50	
For Elevated Installation >35' To 40', Add	8.13	
For Elevated Installation >40', Add	8.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 05 33 13-0580 EA 3/4" Rigid Galvanized Steel (RGS) Chase Nipple.....	19.67	9.48
For Work In Restricted Working Space, Add	5.69	
For Elevated Installation >10' To 15', Add	1.90	
For Elevated Installation >15' To 20', Add	3.79	
For Elevated Installation >20' To 25', Add	4.74	
For Elevated Installation >25' To 30', Add	6.64	
For Elevated Installation >30' To 35', Add	7.58	
For Elevated Installation >35' To 40', Add	9.48	
For Elevated Installation >40', Add	10.43	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69	
26 05 33 13-0581 EA 1" Rigid Galvanized Steel (RGS) Chase Nipple.....	24.57	11.51
For Work In Restricted Working Space, Add	6.91	
For Elevated Installation >10' To 15', Add	2.30	
For Elevated Installation >15' To 20', Add	4.61	
For Elevated Installation >20' To 25', Add	5.76	
For Elevated Installation >25' To 30', Add	8.06	
For Elevated Installation >30' To 35', Add	9.21	
For Elevated Installation >35' To 40', Add	11.52	
For Elevated Installation >40', Add	12.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.91	
26 05 33 13-0582 EA 1-1/4" Rigid Galvanized Steel (RGS) Chase Nipple.....	29.76	13.55
For Work In Restricted Working Space, Add	8.13	
For Elevated Installation >10' To 15', Add	2.71	
For Elevated Installation >15' To 20', Add	5.42	
For Elevated Installation >20' To 25', Add	6.77	
For Elevated Installation >25' To 30', Add	9.48	
For Elevated Installation >30' To 35', Add	10.84	
For Elevated Installation >35' To 40', Add	13.55	
For Elevated Installation >40', Add	14.90	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 05 33 13-0583 EA 1-1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	37.30	16.94
For Work In Restricted Working Space, Add	10.16	
For Elevated Installation >10' To 15', Add	3.39	
For Elevated Installation >15' To 20', Add	6.77	
For Elevated Installation >20' To 25', Add	8.47	
For Elevated Installation >25' To 30', Add	11.85	
For Elevated Installation >30' To 35', Add	13.54	
For Elevated Installation >35' To 40', Add	16.93	
For Elevated Installation >40', Add	18.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	
26 05 33 13-0584 EA 2" Rigid Galvanized Steel (RGS) Chase Nipple.....	46.21	20.32
For Work In Restricted Working Space, Add	12.19	
For Elevated Installation >10' To 15', Add	4.06	
For Elevated Installation >15' To 20', Add	8.13	
For Elevated Installation >20' To 25', Add	10.16	
For Elevated Installation >25' To 30', Add	14.22	
For Elevated Installation >30' To 35', Add	16.25	
For Elevated Installation >35' To 40', Add	20.32	
For Elevated Installation >40', Add	22.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.19	
26 05 33 13-0585 EA 2-1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	58.02	23.70
For Work In Restricted Working Space, Add	14.22	
For Elevated Installation >10' To 15', Add	4.74	
For Elevated Installation >15' To 20', Add	9.48	
For Elevated Installation >20' To 25', Add	11.85	
For Elevated Installation >25' To 30', Add	16.59	
For Elevated Installation >30' To 35', Add	18.96	
For Elevated Installation >35' To 40', Add	23.71	
For Elevated Installation >40', Add	26.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.22	
26 05 33 13-0586 EA 3" Rigid Galvanized Steel (RGS) Chase Nipple.....	65.07	27.09
For Work In Restricted Working Space, Add	16.25	
For Elevated Installation >10' To 15', Add	5.42	
For Elevated Installation >15' To 20', Add	10.84	
For Elevated Installation >20' To 25', Add	13.55	
For Elevated Installation >25' To 30', Add	18.96	
For Elevated Installation >30' To 35', Add	21.67	
For Elevated Installation >35' To 40', Add	27.09	
For Elevated Installation >40', Add	29.80	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0587 EA 3-1/2" Rigid Galvanized Steel (RGS) Chase Nipple	80.21	30.47
For Work In Restricted Working Space, Add	18.29	
For Elevated Installation >10' To 15', Add	6.10	
For Elevated Installation >15' To 20', Add	12.19	
For Elevated Installation >20' To 25', Add	15.24	
For Elevated Installation >25' To 30', Add	21.34	
For Elevated Installation >30' To 35', Add	24.38	
For Elevated Installation >35' To 40', Add	30.48	
For Elevated Installation >40', Add	33.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.29	
26 05 33 13-0588 EA 4" Rigid Galvanized Steel (RGS) Chase Nipple.....	108.07	33.86
For Work In Restricted Working Space, Add	20.32	
For Elevated Installation >10' To 15', Add	6.77	
For Elevated Installation >15' To 20', Add	13.55	
For Elevated Installation >20' To 25', Add	16.93	
For Elevated Installation >25' To 30', Add	23.71	
For Elevated Installation >30' To 35', Add	27.09	
For Elevated Installation >35' To 40', Add	33.87	
For Elevated Installation >40', Add	37.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.32	
26 05 33 13-0589 Rigid Galvanized Steel (RGS) Pulling Elbow (26 05 33 13-0059)		
26 05 33 13-0590 EA 1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	31.70	12.20
For Work In Restricted Working Space, Add	7.31	
For Elevated Installation >10' To 15', Add	2.44	
For Elevated Installation >15' To 20', Add	4.88	
For Elevated Installation >20' To 25', Add	6.10	
For Elevated Installation >25' To 30', Add	8.53	
For Elevated Installation >30' To 35', Add	9.75	
For Elevated Installation >35' To 40', Add	12.19	
For Elevated Installation >40', Add	13.41	
26 05 33 13-0591 EA 3/4" Rigid Galvanized Steel (RGS) Pulling Elbow.....	36.85	14.22
For Work In Restricted Working Space, Add	8.54	
For Elevated Installation >10' To 15', Add	2.85	
For Elevated Installation >15' To 20', Add	5.69	
For Elevated Installation >20' To 25', Add	7.11	
For Elevated Installation >25' To 30', Add	9.96	
For Elevated Installation >30' To 35', Add	11.38	
For Elevated Installation >35' To 40', Add	14.23	
For Elevated Installation >40', Add	15.65	
26 05 33 13-0592 EA 1" Rigid Galvanized Steel (RGS) Pulling Elbow.....	46.46	16.25
For Work In Restricted Working Space, Add	9.75	
For Elevated Installation >10' To 15', Add	3.25	
For Elevated Installation >15' To 20', Add	6.50	
For Elevated Installation >20' To 25', Add	8.13	
For Elevated Installation >25' To 30', Add	11.38	
For Elevated Installation >30' To 35', Add	13.00	
For Elevated Installation >35' To 40', Add	16.26	
For Elevated Installation >40', Add	17.88	
26 05 33 13-0593 EA 1-1/4" Rigid Galvanized Steel (RGS) Pulling Elbow	59.41	20.32
For Work In Restricted Working Space, Add	12.19	
For Elevated Installation >10' To 15', Add	4.06	
For Elevated Installation >15' To 20', Add	8.13	
For Elevated Installation >20' To 25', Add	10.16	
For Elevated Installation >25' To 30', Add	14.22	
For Elevated Installation >30' To 35', Add	16.25	
For Elevated Installation >35' To 40', Add	20.32	
For Elevated Installation >40', Add	22.35	
26 05 33 13-0594 EA 1-1/2" Rigid Galvanized Steel (RGS) Pulling Elbow	78.57	24.38
For Work In Restricted Working Space, Add	14.63	
For Elevated Installation >10' To 15', Add	4.88	
For Elevated Installation >15' To 20', Add	9.75	
For Elevated Installation >20' To 25', Add	12.19	
For Elevated Installation >25' To 30', Add	17.07	
For Elevated Installation >30' To 35', Add	19.50	
For Elevated Installation >35' To 40', Add	24.38	
For Elevated Installation >40', Add	26.82	
26 05 33 13-0595 EA 2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	104.07	28.45
For Work In Restricted Working Space, Add	17.07	
For Elevated Installation >10' To 15', Add	5.69	
For Elevated Installation >15' To 20', Add	11.38	
For Elevated Installation >20' To 25', Add	14.22	
For Elevated Installation >25' To 30', Add	19.91	
For Elevated Installation >30' To 35', Add	22.76	
For Elevated Installation >35' To 40', Add	28.45	
For Elevated Installation >40', Add	31.29	
26 05 33 13-0596 EA 2-1/2" Rigid Galvanized Steel (RGS) Pulling Elbow	142.91	32.51
For Work In Restricted Working Space, Add	19.51	
For Elevated Installation >10' To 15', Add	6.50	
For Elevated Installation >15' To 20', Add	13.00	
For Elevated Installation >20' To 25', Add	16.26	
For Elevated Installation >25' To 30', Add	22.76	
For Elevated Installation >30' To 35', Add	26.01	
For Elevated Installation >35' To 40', Add	32.51	
For Elevated Installation >40', Add	35.76	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0597 EA 3" Rigid Galvanized Steel (RGS) Pulling Elbow.....	246.28	40.63
For Work In Restricted Working Space, Add	24.38	
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.51	
For Elevated Installation >35' To 40', Add	40.64	
For Elevated Installation >40', Add	44.70	
 26 05 33 13-0598 Electrical Metallic Tubing (EMT) Thinwall Conduit (26 05 33 13-0058)		
Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
 26 05 33 13-0599 Electrical Metallic Tubing (EMT) Thinwall Conduit (26 05 33 13-0598)		
Note: Includes field bending conduit up to and including 1".		
26 05 33 13-0600 LF 1/2" Electrical Metallic Tubing (EMT) Conduit.....	7.00	2.44
For >250 To 500, Deduct	-0.05	
For >500 To 1,000, Deduct	-0.37	
For >1,000, Deduct	-0.55	
For Installation In Metal Stud Wall, Add	0.61	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.52	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.91	
For Work In Restricted Working Space, Add	1.83	
For Elevated Installation >10' To 15', Add	0.61	
For Elevated Installation >15' To 20', Add	1.22	
For Elevated Installation >20' To 25', Add	1.52	
For Elevated Installation >25' To 30', Add	2.13	
For Elevated Installation >30' To 35', Add	2.44	
For Elevated Installation >35' To 40', Add	3.05	
For Elevated Installation >40', Add	3.35	
For Factory Applied Color Coating, Add	0.27	
26 05 33 13-0601 LF 3/4" Electrical Metallic Tubing (EMT) Conduit.....	8.19	2.71
For >250 To 500, Deduct	-0.07	
For >500 To 1,000, Deduct	-0.45	
For >1,000, Deduct	-0.65	
For Installation In Metal Stud Wall, Add	0.68	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.69	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.02	
For Work In Restricted Working Space, Add	2.03	
For Elevated Installation >10' To 15', Add	0.68	
For Elevated Installation >15' To 20', Add	1.35	
For Elevated Installation >20' To 25', Add	1.69	
For Elevated Installation >25' To 30', Add	2.37	
For Elevated Installation >30' To 35', Add	2.71	
For Elevated Installation >35' To 40', Add	3.39	
For Elevated Installation >40', Add	3.72	
For Factory Applied Color Coating, Add	0.43	
26 05 33 13-0602 LF 1" Electrical Metallic Tubing (EMT) Conduit.....	9.81	2.98
For >250 To 500, Deduct	-0.12	
For >500 To 1,000, Deduct	-0.55	
For >1,000, Deduct	-0.79	
For Installation In Metal Stud Wall, Add	0.75	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.86	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.12	
For Work In Restricted Working Space, Add	2.24	
For Elevated Installation >10' To 15', Add	0.75	
For Elevated Installation >15' To 20', Add	1.49	
For Elevated Installation >20' To 25', Add	1.86	
For Elevated Installation >25' To 30', Add	2.61	
For Elevated Installation >30' To 35', Add	2.98	
For Elevated Installation >35' To 40', Add	3.73	
For Elevated Installation >40', Add	4.10	
For Factory Applied Color Coating, Add	0.71	
26 05 33 13-0603 LF 1-1/4" Electrical Metallic Tubing (EMT) Conduit.....	12.13	3.36
For >250 To 500, Deduct	-0.19	
For >500 To 1,000, Deduct	-0.70	
For >1,000, Deduct	-1.00	
For Installation In Metal Stud Wall, Add	0.84	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.10	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.26	
For Work In Restricted Working Space, Add	2.52	
For Elevated Installation >10' To 15', Add	0.84	
For Elevated Installation >15' To 20', Add	1.68	
For Elevated Installation >20' To 25', Add	2.10	
For Elevated Installation >25' To 30', Add	2.94	
For Elevated Installation >30' To 35', Add	3.36	
For Elevated Installation >35' To 40', Add	4.20	
For Elevated Installation >40', Add	4.62	
For Factory Applied Color Coating, Add	1.12	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0604	LF	1-1/2"	Electrical Metallic Tubing (EMT) Conduit For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct For Installation In Metal Stud Wall, Add For Installation In Wood Stud Wall (Includes Drilling), Add For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Factory Applied Color Coating, Add	14.12 -0.23 -0.82 -1.18 0.95 2.37 1.42 2.84 0.95 1.90 2.37 3.32 3.79 4.74 5.21 1.39	3.79
26 05 33 13-0605	LF	2"	Electrical Metallic Tubing (EMT) Conduit..... For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct For Installation In Metal Stud Wall, Add For Installation In Wood Stud Wall (Includes Drilling), Add For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Factory Applied Color Coating, Add	16.33 -0.28 -0.95 -1.36 1.08 2.71 1.62 3.25 1.08 2.17 2.71 3.79 4.33 5.42 5.96 1.65	4.34
26 05 33 13-0606	LF	2-1/2"	Electrical Metallic Tubing (EMT) Conduit For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct For Installation In Metal Stud Wall, Add For Installation In Wood Stud Wall (Includes Drilling), Add For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Factory Applied Color Coating, Add	21.02 -0.41 -1.25 -1.78 1.29 3.22 1.93 3.86 1.29 2.57 3.22 4.50 5.15 6.44 7.08 2.45	5.15
26 05 33 13-0607	LF	3"	Electrical Metallic Tubing (EMT) Conduit..... For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct For Installation In Metal Stud Wall, Add For Installation In Wood Stud Wall (Includes Drilling), Add For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Factory Applied Color Coating, Add	25.10 -0.51 -1.51 -2.14 1.49 3.73 2.24 4.47 1.49 2.98 3.73 5.22 5.96 7.45 8.20 3.06	5.96
26 05 33 13-0608	LF	3-1/2"	Electrical Metallic Tubing (EMT) Conduit For >250 To 500, Deduct For >500 To 1,000, Deduct For >1,000, Deduct For Installation In Metal Stud Wall, Add For Installation In Wood Stud Wall (Includes Drilling), Add For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Factory Applied Color Coating, Add	31.24 -0.68 -1.90 -2.68 1.76 4.40 2.64 5.28 1.76 3.52 4.40 6.16 7.04 8.81 9.69 4.09	7.04

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0609 LF 4" Electrical Metallic Tubing (EMT) Conduit.....	41.01	10.26
For >250 To 500, Deduct	-0.77	
For >500 To 1,000, Deduct	-2.43	
For >1,000, Deduct	-3.46	
For Installation In Metal Stud Wall, Add	2.57	
For Installation In Wood Stud Wall (Includes Drilling), Add	6.41	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	3.85	
For Work In Restricted Working Space, Add	7.70	
For Elevated Installation >10' To 15', Add	2.57	
For Elevated Installation >15' To 20', Add	5.13	
For Elevated Installation >20' To 25', Add	6.41	
For Elevated Installation >25' To 30', Add	8.98	
For Elevated Installation >30' To 35', Add	10.26	
For Elevated Installation >35' To 40', Add	12.83	
For Elevated Installation >40', Add	14.11	
For Factory Applied Color Coating, Add	4.61	
 26 05 33 13-0610 Electrical Metallic Tubing (EMT) 90 Degree Elbows (26 05 33 13-0598)		
See CSI section 26 05 33 13-2297 for conduit field bending.		
 26 05 33 13-0611 Electrical Metallic Tubing (EMT) Set Screw Couplings (26 05 33 13-0598)		
26 05 33 13-0612 EA 1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	7.02	3.25
For Work In Restricted Working Space, Add	2.03	
For Elevated Installation >10' To 15', Add	0.68	
For Elevated Installation >15' To 20', Add	1.35	
For Elevated Installation >20' To 25', Add	1.69	
For Elevated Installation >25' To 30', Add	2.37	
For Elevated Installation >30' To 35', Add	2.71	
For Elevated Installation >35' To 40', Add	3.39	
For Elevated Installation >40', Add	3.72	
26 05 33 13-0613 EA 3/4" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	8.50	3.25
For Work In Restricted Working Space, Add	2.44	
For Elevated Installation >10' To 15', Add	0.81	
For Elevated Installation >15' To 20', Add	1.63	
For Elevated Installation >20' To 25', Add	2.03	
For Elevated Installation >25' To 30', Add	2.85	
For Elevated Installation >30' To 35', Add	3.25	
For Elevated Installation >35' To 40', Add	4.07	
For Elevated Installation >40', Add	4.47	
26 05 33 13-0614 EA 1" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	10.04	3.79
For Work In Restricted Working Space, Add	2.84	
For Elevated Installation >10' To 15', Add	0.95	
For Elevated Installation >15' To 20', Add	1.90	
For Elevated Installation >20' To 25', Add	2.37	
For Elevated Installation >25' To 30', Add	3.32	
For Elevated Installation >30' To 35', Add	3.79	
For Elevated Installation >35' To 40', Add	4.74	
For Elevated Installation >40', Add	5.21	
26 05 33 13-0615 EA 1-1/4" Electrical Metallic Tubing (EMT) Set Screw Coupling	13.41	4.88
For Work In Restricted Working Space, Add	3.66	
For Elevated Installation >10' To 15', Add	1.22	
For Elevated Installation >15' To 20', Add	2.44	
For Elevated Installation >20' To 25', Add	3.05	
For Elevated Installation >25' To 30', Add	4.27	
For Elevated Installation >30' To 35', Add	4.88	
For Elevated Installation >35' To 40', Add	6.10	
For Elevated Installation >40', Add	6.70	
26 05 33 13-0616 EA 1-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling	16.52	5.96
For Work In Restricted Working Space, Add	4.47	
For Elevated Installation >10' To 15', Add	1.49	
For Elevated Installation >15' To 20', Add	2.98	
For Elevated Installation >20' To 25', Add	3.73	
For Elevated Installation >25' To 30', Add	5.22	
For Elevated Installation >30' To 35', Add	5.96	
For Elevated Installation >35' To 40', Add	7.45	
For Elevated Installation >40', Add	8.20	
26 05 33 13-0617 EA 2" Electrical Metallic Tubing (EMT) Set Screw Coupling	22.47	8.13
For Work In Restricted Working Space, Add	6.09	
For Elevated Installation >10' To 15', Add	2.03	
For Elevated Installation >15' To 20', Add	4.06	
For Elevated Installation >20' To 25', Add	5.08	
For Elevated Installation >25' To 30', Add	7.11	
For Elevated Installation >30' To 35', Add	8.12	
For Elevated Installation >35' To 40', Add	10.16	
For Elevated Installation >40', Add	11.17	
26 05 33 13-0618 EA 2-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling	30.88	10.83
For Work In Restricted Working Space, Add	8.13	
For Elevated Installation >10' To 15', Add	2.71	
For Elevated Installation >15' To 20', Add	5.42	
For Elevated Installation >20' To 25', Add	6.78	
For Elevated Installation >25' To 30', Add	9.49	
For Elevated Installation >30' To 35', Add	10.84	
For Elevated Installation >35' To 40', Add	13.55	
For Elevated Installation >40', Add	14.91	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0619 EA 3" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	39.72	12.47
For Work In Restricted Working Space, Add	10.16	
For Elevated Installation >10' To 15', Add	3.39	
For Elevated Installation >15' To 20', Add	6.77	
For Elevated Installation >20' To 25', Add	8.47	
For Elevated Installation >25' To 30', Add	11.85	
For Elevated Installation >30' To 35', Add	13.54	
For Elevated Installation >35' To 40', Add	16.93	
For Elevated Installation >40', Add	18.62	
26 05 33 13-0620 EA 3-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling	45.28	13.55
For Work In Restricted Working Space, Add	12.19	
For Elevated Installation >10' To 15', Add	4.06	
For Elevated Installation >15' To 20', Add	8.13	
For Elevated Installation >20' To 25', Add	10.16	
For Elevated Installation >25' To 30', Add	14.22	
For Elevated Installation >30' To 35', Add	16.25	
For Elevated Installation >35' To 40', Add	20.32	
For Elevated Installation >40', Add	22.35	
26 05 33 13-0621 EA 4" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	128.66	37.19
For Work In Restricted Working Space, Add	36.12	
For Elevated Installation >10' To 15', Add	12.04	
For Elevated Installation >15' To 20', Add	24.08	
For Elevated Installation >20' To 25', Add	30.10	
For Elevated Installation >25' To 30', Add	42.14	
For Elevated Installation >30' To 35', Add	48.16	
For Elevated Installation >35' To 40', Add	60.20	
For Elevated Installation >40', Add	66.21	
26 05 33 13-0622 Electrical Metallic Tubing (EMT) Compression Couplings (26 05 33 13-0598)		
26 05 33 13-0623 EA 1/2 Electrical Metallic Tubing (EMT) Compression Coupling	8.75	3.25
For Work In Restricted Working Space, Add	2.44	
For Elevated Installation >10' To 15', Add	0.81	
For Elevated Installation >15' To 20', Add	1.63	
For Elevated Installation >20' To 25', Add	2.03	
For Elevated Installation >25' To 30', Add	2.85	
For Elevated Installation >30' To 35', Add	3.25	
For Elevated Installation >35' To 40', Add	4.07	
For Elevated Installation >40', Add	4.47	
26 05 33 13-0624 EA 3/4" Electrical Metallic Tubing (EMT) Compression Coupling	10.16	3.79
For Work In Restricted Working Space, Add	2.84	
For Elevated Installation >10' To 15', Add	0.95	
For Elevated Installation >15' To 20', Add	1.90	
For Elevated Installation >20' To 25', Add	2.37	
For Elevated Installation >25' To 30', Add	3.32	
For Elevated Installation >30' To 35', Add	3.79	
For Elevated Installation >35' To 40', Add	4.74	
For Elevated Installation >40', Add	5.21	
26 05 33 13-0625 EA 1" Electrical Metallic Tubing (EMT) Compression Coupling.....	14.50	5.42
For Work In Restricted Working Space, Add	4.07	
For Elevated Installation >10' To 15', Add	1.36	
For Elevated Installation >15' To 20', Add	2.71	
For Elevated Installation >20' To 25', Add	3.39	
For Elevated Installation >25' To 30', Add	4.74	
For Elevated Installation >30' To 35', Add	5.42	
For Elevated Installation >35' To 40', Add	6.78	
For Elevated Installation >40', Add	7.45	
26 05 33 13-0626 EA 1-1/4" Electrical Metallic Tubing (EMT) Compression Coupling.....	18.23	6.50
For Work In Restricted Working Space, Add	4.88	
For Elevated Installation >10' To 15', Add	1.63	
For Elevated Installation >15' To 20', Add	3.25	
For Elevated Installation >20' To 25', Add	4.06	
For Elevated Installation >25' To 30', Add	5.69	
For Elevated Installation >30' To 35', Add	6.50	
For Elevated Installation >35' To 40', Add	8.13	
For Elevated Installation >40', Add	8.94	
26 05 33 13-0627 EA 1-1/2" Electrical Metallic Tubing (EMT) Compression Coupling.....	21.75	7.59
For Work In Restricted Working Space, Add	5.69	
For Elevated Installation >10' To 15', Add	1.90	
For Elevated Installation >15' To 20', Add	3.79	
For Elevated Installation >20' To 25', Add	4.74	
For Elevated Installation >25' To 30', Add	6.64	
For Elevated Installation >30' To 35', Add	7.58	
For Elevated Installation >35' To 40', Add	9.48	
For Elevated Installation >40', Add	10.43	
26 05 33 13-0628 EA 2" Electrical Metallic Tubing (EMT) Compression Coupling.....	28.76	9.75
For Work In Restricted Working Space, Add	7.31	
For Elevated Installation >10' To 15', Add	2.44	
For Elevated Installation >15' To 20', Add	4.88	
For Elevated Installation >20' To 25', Add	6.10	
For Elevated Installation >25' To 30', Add	8.53	
For Elevated Installation >30' To 35', Add	9.75	
For Elevated Installation >35' To 40', Add	12.19	
For Elevated Installation >40', Add	13.41	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0629 EA 2-1/2" Electrical Metallic Tubing (EMT) Compression Coupling.....	43.97	13.01
For Work In Restricted Working Space, Add	9.75	
For Elevated Installation >10' To 15', Add	3.25	
For Elevated Installation >15' To 20', Add	6.50	
For Elevated Installation >20' To 25', Add	8.13	
For Elevated Installation >25' To 30', Add	11.38	
For Elevated Installation >30' To 35', Add	13.00	
For Elevated Installation >35' To 40', Add	16.26	
For Elevated Installation >40', Add	17.88	
26 05 33 13-0630 EA 3" Electrical Metallic Tubing (EMT) Compression Coupling.....	50.95	15.17
For Work In Restricted Working Space, Add	11.38	
For Elevated Installation >10' To 15', Add	3.79	
For Elevated Installation >15' To 20', Add	7.59	
For Elevated Installation >20' To 25', Add	9.48	
For Elevated Installation >25' To 30', Add	13.28	
For Elevated Installation >30' To 35', Add	15.17	
For Elevated Installation >35' To 40', Add	18.97	
For Elevated Installation >40', Add	20.86	
26 05 33 13-0631 EA 3-1/2" Electrical Metallic Tubing (EMT) Compression Coupling.....	63.70	18.96
For Work In Restricted Working Space, Add	14.22	
For Elevated Installation >10' To 15', Add	4.74	
For Elevated Installation >15' To 20', Add	9.48	
For Elevated Installation >20' To 25', Add	11.85	
For Elevated Installation >25' To 30', Add	16.59	
For Elevated Installation >30' To 35', Add	18.96	
For Elevated Installation >35' To 40', Add	23.71	
For Elevated Installation >40', Add	26.08	
26 05 33 13-0632 EA 4" Electrical Metallic Tubing (EMT) Compression Coupling.....	81.73	24.38
For Work In Restricted Working Space, Add	18.29	
For Elevated Installation >10' To 15', Add	6.10	
For Elevated Installation >15' To 20', Add	12.19	
For Elevated Installation >20' To 25', Add	15.24	
For Elevated Installation >25' To 30', Add	21.34	
For Elevated Installation >30' To 35', Add	24.38	
For Elevated Installation >35' To 40', Add	30.48	
For Elevated Installation >40', Add	33.53	
26 05 33 13-0633 Electrical Metallic Tubing (EMT) Raintight Compression Couplings (26 05 33 13-0598)		
26 05 33 13-0634 EA 1/2 Electrical Metallic Tubing (EMT) Raintight Compression Coupling	9.64	3.25
For Work In Restricted Working Space, Add	2.44	
For Elevated Installation >10' To 15', Add	0.81	
For Elevated Installation >15' To 20', Add	1.63	
For Elevated Installation >20' To 25', Add	2.03	
For Elevated Installation >25' To 30', Add	2.85	
For Elevated Installation >30' To 35', Add	3.25	
For Elevated Installation >35' To 40', Add	4.07	
For Elevated Installation >40', Add	4.47	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.44	
26 05 33 13-0635 EA 3/4" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	11.14	3.79
For Work In Restricted Working Space, Add	2.84	
For Elevated Installation >10' To 15', Add	0.95	
For Elevated Installation >15' To 20', Add	1.90	
For Elevated Installation >20' To 25', Add	2.37	
For Elevated Installation >25' To 30', Add	3.32	
For Elevated Installation >30' To 35', Add	3.79	
For Elevated Installation >35' To 40', Add	4.74	
For Elevated Installation >40', Add	5.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.84	
26 05 33 13-0636 EA 1" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	16.35	5.42
For Work In Restricted Working Space, Add	4.07	
For Elevated Installation >10' To 15', Add	1.36	
For Elevated Installation >15' To 20', Add	2.71	
For Elevated Installation >20' To 25', Add	3.39	
For Elevated Installation >25' To 30', Add	4.74	
For Elevated Installation >30' To 35', Add	5.42	
For Elevated Installation >35' To 40', Add	6.78	
For Elevated Installation >40', Add	7.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.07	
26 05 33 13-0637 EA 1-1/4" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	20.48	6.50
For Work In Restricted Working Space, Add	4.88	
For Elevated Installation >10' To 15', Add	1.63	
For Elevated Installation >15' To 20', Add	3.25	
For Elevated Installation >20' To 25', Add	4.06	
For Elevated Installation >25' To 30', Add	5.69	
For Elevated Installation >30' To 35', Add	6.50	
For Elevated Installation >35' To 40', Add	8.13	
For Elevated Installation >40', Add	8.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0638	EA	1-1/2"	Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	25.75	7.59
			For Work In Restricted Working Space, Add	5.69	
			For Elevated Installation >10' To 15', Add	1.90	
			For Elevated Installation >15' To 20', Add	3.79	
			For Elevated Installation >20' To 25', Add	4.74	
			For Elevated Installation >25' To 30', Add	6.64	
			For Elevated Installation >30' To 35', Add	7.58	
			For Elevated Installation >35' To 40', Add	9.48	
			For Elevated Installation >40', Add	10.43	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69	
26 05 33 13-0639	EA	2"	Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	31.37	9.21
			For Work In Restricted Working Space, Add	6.91	
			For Elevated Installation >10' To 15', Add	2.30	
			For Elevated Installation >15' To 20', Add	4.61	
			For Elevated Installation >20' To 25', Add	5.76	
			For Elevated Installation >25' To 30', Add	8.06	
			For Elevated Installation >30' To 35', Add	9.21	
			For Elevated Installation >35' To 40', Add	11.52	
			For Elevated Installation >40', Add	12.67	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.91	
26 05 33 13-0640	EA	2-1/2"	Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	42.25	12.47
			For Work In Restricted Working Space, Add	9.35	
			For Elevated Installation >10' To 15', Add	3.12	
			For Elevated Installation >15' To 20', Add	6.23	
			For Elevated Installation >20' To 25', Add	7.79	
			For Elevated Installation >25' To 30', Add	10.90	
			For Elevated Installation >30' To 35', Add	12.46	
			For Elevated Installation >35' To 40', Add	15.58	
			For Elevated Installation >40', Add	17.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.35	
26 05 33 13-0641	EA	3"	Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	53.00	15.17
			For Work In Restricted Working Space, Add	11.38	
			For Elevated Installation >10' To 15', Add	3.79	
			For Elevated Installation >15' To 20', Add	7.59	
			For Elevated Installation >20' To 25', Add	9.48	
			For Elevated Installation >25' To 30', Add	13.28	
			For Elevated Installation >30' To 35', Add	15.17	
			For Elevated Installation >35' To 40', Add	18.97	
			For Elevated Installation >40', Add	20.86	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.38	
26 05 33 13-0642	EA	3-1/2"	Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	69.22	18.96
			For Work In Restricted Working Space, Add	14.22	
			For Elevated Installation >10' To 15', Add	4.74	
			For Elevated Installation >15' To 20', Add	9.48	
			For Elevated Installation >20' To 25', Add	11.85	
			For Elevated Installation >25' To 30', Add	16.59	
			For Elevated Installation >30' To 35', Add	18.96	
			For Elevated Installation >35' To 40', Add	23.71	
			For Elevated Installation >40', Add	26.08	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.22	
26 05 33 13-0643	EA	4"	Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	85.34	24.38
			For Work In Restricted Working Space, Add	18.29	
			For Elevated Installation >10' To 15', Add	6.10	
			For Elevated Installation >15' To 20', Add	12.19	
			For Elevated Installation >20' To 25', Add	15.24	
			For Elevated Installation >25' To 30', Add	21.34	
			For Elevated Installation >30' To 35', Add	24.38	
			For Elevated Installation >35' To 40', Add	30.48	
			For Elevated Installation >40', Add	33.53	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.29	
26 05 33 13-0644			Electrical Metallic Tubing (EMT) Insulated Bushing (26 05 33 13-0598)		
26 05 33 13-0645	EA	1/2"	Electrical Metallic Tubing (EMT) Insulated Bushing.....	9.16	3.66
			For Work In Restricted Working Space, Add	2.72	
			For Elevated Installation >10' To 15', Add	0.91	
			For Elevated Installation >15' To 20', Add	1.82	
			For Elevated Installation >20' To 25', Add	2.27	
			For Elevated Installation >25' To 30', Add	3.18	
			For Elevated Installation >30' To 35', Add	3.63	
			For Elevated Installation >35' To 40', Add	4.54	
			For Elevated Installation >40', Add	4.99	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.72	
26 05 33 13-0646	EA	3/4"	Electrical Metallic Tubing (EMT) Insulated Bushing.....	10.02	3.93
			For Work In Restricted Working Space, Add	2.97	
			For Elevated Installation >10' To 15', Add	0.99	
			For Elevated Installation >15' To 20', Add	1.98	
			For Elevated Installation >20' To 25', Add	2.47	
			For Elevated Installation >25' To 30', Add	3.46	
			For Elevated Installation >30' To 35', Add	3.96	
			For Elevated Installation >35' To 40', Add	4.95	
			For Elevated Installation >40', Add	5.44	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.97	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0647 EA 1" Electrical Metallic Tubing (EMT) Insulated Bushing.....	12.47	4.88
For Work In Restricted Working Space, Add	3.62	
For Elevated Installation >10' To 15', Add	1.21	
For Elevated Installation >15' To 20', Add	2.41	
For Elevated Installation >20' To 25', Add	3.01	
For Elevated Installation >25' To 30', Add	4.22	
For Elevated Installation >30' To 35', Add	4.82	
For Elevated Installation >35' To 40', Add	6.03	
For Elevated Installation >40', Add	6.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.62	
26 05 33 13-0648 EA 1-1/4" Electrical Metallic Tubing (EMT) Insulated Bushing	15.95	6.23
For Work In Restricted Working Space, Add	4.63	
For Elevated Installation >10' To 15', Add	1.54	
For Elevated Installation >15' To 20', Add	3.09	
For Elevated Installation >20' To 25', Add	3.86	
For Elevated Installation >25' To 30', Add	5.40	
For Elevated Installation >30' To 35', Add	6.18	
For Elevated Installation >35' To 40', Add	7.72	
For Elevated Installation >40', Add	8.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.63	
26 05 33 13-0649 EA 1-1/2" Electrical Metallic Tubing (EMT) Insulated Bushing	18.83	7.17
For Work In Restricted Working Space, Add	5.41	
For Elevated Installation >10' To 15', Add	1.80	
For Elevated Installation >15' To 20', Add	3.60	
For Elevated Installation >20' To 25', Add	4.51	
For Elevated Installation >25' To 30', Add	6.31	
For Elevated Installation >30' To 35', Add	7.21	
For Elevated Installation >35' To 40', Add	9.01	
For Elevated Installation >40', Add	9.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.41	
26 05 33 13-0650 EA 2" Electrical Metallic Tubing (EMT) Insulated Bushing.....	23.03	8.67
For Work In Restricted Working Space, Add	6.50	
For Elevated Installation >10' To 15', Add	2.17	
For Elevated Installation >15' To 20', Add	4.33	
For Elevated Installation >20' To 25', Add	5.42	
For Elevated Installation >25' To 30', Add	7.58	
For Elevated Installation >30' To 35', Add	8.67	
For Elevated Installation >35' To 40', Add	10.84	
For Elevated Installation >40', Add	11.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.50	
26 05 33 13-0651 EA 2-1/2" Electrical Metallic Tubing (EMT) Insulated Bushing	33.01	12.05
For Work In Restricted Working Space, Add	9.02	
For Elevated Installation >10' To 15', Add	3.01	
For Elevated Installation >15' To 20', Add	6.01	
For Elevated Installation >20' To 25', Add	7.52	
For Elevated Installation >25' To 30', Add	10.52	
For Elevated Installation >30' To 35', Add	12.03	
For Elevated Installation >35' To 40', Add	15.04	
For Elevated Installation >40', Add	16.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.02	
26 05 33 13-0652 EA 3" Electrical Metallic Tubing (EMT) Insulated Bushing.....	43.83	15.98
For Work In Restricted Working Space, Add	12.03	
For Elevated Installation >10' To 15', Add	4.01	
For Elevated Installation >15' To 20', Add	8.02	
For Elevated Installation >20' To 25', Add	10.02	
For Elevated Installation >25' To 30', Add	14.03	
For Elevated Installation >30' To 35', Add	16.04	
For Elevated Installation >35' To 40', Add	20.05	
For Elevated Installation >40', Add	22.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.03	
26 05 33 13-0653 EA 3-1/2" Electrical Metallic Tubing (EMT) Insulated Bushing	56.22	20.59
For Work In Restricted Working Space, Add	15.48	
For Elevated Installation >10' To 15', Add	5.16	
For Elevated Installation >15' To 20', Add	10.32	
For Elevated Installation >20' To 25', Add	12.90	
For Elevated Installation >25' To 30', Add	18.06	
For Elevated Installation >30' To 35', Add	20.64	
For Elevated Installation >35' To 40', Add	25.81	
For Elevated Installation >40', Add	28.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.48	
26 05 33 13-0654 EA 4" Electrical Metallic Tubing (EMT) Insulated Bushing.....	72.87	27.09
For Work In Restricted Working Space, Add	20.32	
For Elevated Installation >10' To 15', Add	6.77	
For Elevated Installation >15' To 20', Add	13.55	
For Elevated Installation >20' To 25', Add	16.93	
For Elevated Installation >25' To 30', Add	23.71	
For Elevated Installation >30' To 35', Add	27.09	
For Elevated Installation >35' To 40', Add	33.87	
For Elevated Installation >40', Add	37.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.32	

26 05 33 13-0655 Electrical Metallic Tubing (EMT) Straight Box Connectors With Set Screw⁽²⁶⁾
05 33 13-0598)



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0656	EA	1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	6.97	2.71
			For Work In Restricted Working Space, Add	2.03	
			For Elevated Installation >10' To 15', Add	0.68	
			For Elevated Installation >15' To 20', Add	1.35	
			For Elevated Installation >20' To 25', Add	1.69	
			For Elevated Installation >25' To 30', Add	2.37	
			For Elevated Installation >30' To 35', Add	2.71	
			For Elevated Installation >35' To 40', Add	3.39	
			For Elevated Installation >40', Add	3.72	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.03	
26 05 33	13-0657	EA	3/4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	8.45	3.25
			For Work In Restricted Working Space, Add	2.44	
			For Elevated Installation >10' To 15', Add	0.81	
			For Elevated Installation >15' To 20', Add	1.63	
			For Elevated Installation >20' To 25', Add	2.03	
			For Elevated Installation >25' To 30', Add	2.85	
			For Elevated Installation >30' To 35', Add	3.25	
			For Elevated Installation >35' To 40', Add	4.07	
			For Elevated Installation >40', Add	4.47	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.44	
26 05 33	13-0658	EA	1" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	10.04	3.79
			For Work In Restricted Working Space, Add	2.84	
			For Elevated Installation >10' To 15', Add	0.95	
			For Elevated Installation >15' To 20', Add	1.90	
			For Elevated Installation >20' To 25', Add	2.37	
			For Elevated Installation >25' To 30', Add	3.32	
			For Elevated Installation >30' To 35', Add	3.79	
			For Elevated Installation >35' To 40', Add	4.74	
			For Elevated Installation >40', Add	5.21	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.84	
26 05 33	13-0659	EA	1-1/4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw	14.58	5.42
			For Work In Restricted Working Space, Add	4.07	
			For Elevated Installation >10' To 15', Add	1.36	
			For Elevated Installation >15' To 20', Add	2.71	
			For Elevated Installation >20' To 25', Add	3.39	
			For Elevated Installation >25' To 30', Add	4.74	
			For Elevated Installation >30' To 35', Add	5.42	
			For Elevated Installation >35' To 40', Add	6.78	
			For Elevated Installation >40', Add	7.45	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.07	
26 05 33	13-0660	EA	1-1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw	17.75	6.50
			For Work In Restricted Working Space, Add	4.88	
			For Elevated Installation >10' To 15', Add	1.63	
			For Elevated Installation >15' To 20', Add	3.25	
			For Elevated Installation >20' To 25', Add	4.06	
			For Elevated Installation >25' To 30', Add	5.69	
			For Elevated Installation >30' To 35', Add	6.50	
			For Elevated Installation >35' To 40', Add	8.13	
			For Elevated Installation >40', Add	8.94	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 05 33	13-0661	EA	2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	22.54	8.13
			For Work In Restricted Working Space, Add	6.10	
			For Elevated Installation >10' To 15', Add	2.03	
			For Elevated Installation >15' To 20', Add	4.06	
			For Elevated Installation >20' To 25', Add	5.08	
			For Elevated Installation >25' To 30', Add	7.11	
			For Elevated Installation >30' To 35', Add	8.13	
			For Elevated Installation >35' To 40', Add	10.16	
			For Elevated Installation >40', Add	11.18	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.10	
26 05 33	13-0662	EA	2-1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw	33.28	10.83
			For Work In Restricted Working Space, Add	8.13	
			For Elevated Installation >10' To 15', Add	2.71	
			For Elevated Installation >15' To 20', Add	5.42	
			For Elevated Installation >20' To 25', Add	6.77	
			For Elevated Installation >25' To 30', Add	9.48	
			For Elevated Installation >30' To 35', Add	10.84	
			For Elevated Installation >35' To 40', Add	13.55	
			For Elevated Installation >40', Add	14.90	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 05 33	13-0663	EA	3" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	41.43	13.55
			For Work In Restricted Working Space, Add	10.16	
			For Elevated Installation >10' To 15', Add	3.39	
			For Elevated Installation >15' To 20', Add	6.77	
			For Elevated Installation >20' To 25', Add	8.47	
			For Elevated Installation >25' To 30', Add	11.85	
			For Elevated Installation >30' To 35', Add	13.54	
			For Elevated Installation >35' To 40', Add	16.93	
			For Elevated Installation >40', Add	18.62	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0664 EA 3-1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	49.13	16.25
For Work In Restricted Working Space, Add	12.19	
For Elevated Installation >10' To 15', Add	4.06	
For Elevated Installation >15' To 20', Add	8.13	
For Elevated Installation >20' To 25', Add	10.16	
For Elevated Installation >25' To 30', Add	14.22	
For Elevated Installation >30' To 35', Add	16.25	
For Elevated Installation >35' To 40', Add	20.32	
For Elevated Installation >40', Add	22.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.19	
26 05 33 13-0665 EA 4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	57.26	18.96
For Work In Restricted Working Space, Add	14.22	
For Elevated Installation >10' To 15', Add	4.74	
For Elevated Installation >15' To 20', Add	9.48	
For Elevated Installation >20' To 25', Add	11.85	
For Elevated Installation >25' To 30', Add	16.59	
For Elevated Installation >30' To 35', Add	18.96	
For Elevated Installation >35' To 40', Add	23.71	
For Elevated Installation >40', Add	26.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.22	
26 05 33 13-0666 Electrical Metallic Tubing (EMT) Insulated Straight Box Connectors With Set Screw (26 05 33 13-0598)		
26 05 33 13-0667 EA 1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	9.41	3.66
For Work In Restricted Working Space, Add	2.72	
For Elevated Installation >10' To 15', Add	0.91	
For Elevated Installation >15' To 20', Add	1.82	
For Elevated Installation >20' To 25', Add	2.27	
For Elevated Installation >25' To 30', Add	3.18	
For Elevated Installation >30' To 35', Add	3.63	
For Elevated Installation >35' To 40', Add	4.54	
For Elevated Installation >40', Add	4.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.72	
26 05 33 13-0668 EA 3/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	10.42	3.93
For Work In Restricted Working Space, Add	2.97	
For Elevated Installation >10' To 15', Add	0.99	
For Elevated Installation >15' To 20', Add	1.98	
For Elevated Installation >20' To 25', Add	2.47	
For Elevated Installation >25' To 30', Add	3.46	
For Elevated Installation >30' To 35', Add	3.96	
For Elevated Installation >35' To 40', Add	4.95	
For Elevated Installation >40', Add	5.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.97	
26 05 33 13-0669 EA 1" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	12.99	4.88
For Work In Restricted Working Space, Add	3.62	
For Elevated Installation >10' To 15', Add	1.21	
For Elevated Installation >15' To 20', Add	2.41	
For Elevated Installation >20' To 25', Add	3.01	
For Elevated Installation >25' To 30', Add	4.22	
For Elevated Installation >30' To 35', Add	4.82	
For Elevated Installation >35' To 40', Add	6.03	
For Elevated Installation >40', Add	6.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.62	
26 05 33 13-0670 EA 1-1/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	17.01	6.23
For Work In Restricted Working Space, Add	4.63	
For Elevated Installation >10' To 15', Add	1.54	
For Elevated Installation >15' To 20', Add	3.09	
For Elevated Installation >20' To 25', Add	3.86	
For Elevated Installation >25' To 30', Add	5.40	
For Elevated Installation >30' To 35', Add	6.18	
For Elevated Installation >35' To 40', Add	7.72	
For Elevated Installation >40', Add	8.49	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.63	
26 05 33 13-0671 EA 1-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	20.10	7.17
For Work In Restricted Working Space, Add	5.41	
For Elevated Installation >10' To 15', Add	1.80	
For Elevated Installation >15' To 20', Add	3.60	
For Elevated Installation >20' To 25', Add	4.51	
For Elevated Installation >25' To 30', Add	6.31	
For Elevated Installation >30' To 35', Add	7.21	
For Elevated Installation >35' To 40', Add	9.01	
For Elevated Installation >40', Add	9.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.41	
26 05 33 13-0672 EA 2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw	24.53	8.67
For Work In Restricted Working Space, Add	6.50	
For Elevated Installation >10' To 15', Add	2.17	
For Elevated Installation >15' To 20', Add	4.33	
For Elevated Installation >20' To 25', Add	5.42	
For Elevated Installation >25' To 30', Add	7.58	
For Elevated Installation >30' To 35', Add	8.67	
For Elevated Installation >35' To 40', Add	10.84	
For Elevated Installation >40', Add	11.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.50	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0673	EA	2-1/2"	Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.44 9.02 3.01 6.01 7.52 10.52 12.03 15.04 16.54 9.02	12.05
26 05 33 13-0674	EA	3"	Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.30 12.03 4.01 8.02 10.02 14.03 16.04 20.05 22.05 12.03	15.98
26 05 33 13-0675	EA	3-1/2"	Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.62 15.48 5.16 10.32 12.90 18.06 20.64 25.81 28.39 15.48	20.59
26 05 33 13-0676	EA	4"	Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.15 20.32 6.77 13.55 16.93 23.71 27.09 33.87 37.25 20.32	27.09
26 05 33 13-0677			Electrical Metallic Tubing (EMT) Straight Box Compression Connectors (26 05 33 13-0598)		
26 05 33 13-0678	EA	1/2"	Electrical Metallic Tubing (EMT) Straight Box Compression Connector <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.45 2.44 0.81 1.63 2.03 2.85 3.25 4.07 4.47 2.44	3.25
26 05 33 13-0679	EA	3/4"	Electrical Metallic Tubing (EMT) Straight Box Compression Connector <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.97 2.84 0.95 1.90 2.37 3.32 3.79 4.74 5.21 2.84	3.79
26 05 33 13-0680	EA	1"	Electrical Metallic Tubing (EMT) Straight Box Compression Connector <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.24 4.07 1.36 2.71 3.39 4.74 5.42 6.78 7.45 4.07	5.42
26 05 33 13-0681	EA	1-1/4"	Electrical Metallic Tubing (EMT) Straight Box Compression Connector <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.55 4.88 1.63 3.25 4.06 5.69 6.50 8.13 8.94 4.88	6.50

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0682 EA 1-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	20.80	7.59
For Work In Restricted Working Space, Add	5.69	
For Elevated Installation >10' To 15', Add	1.90	
For Elevated Installation >15' To 20', Add	3.79	
For Elevated Installation >20' To 25', Add	4.74	
For Elevated Installation >25' To 30', Add	6.64	
For Elevated Installation >30' To 35', Add	7.58	
For Elevated Installation >35' To 40', Add	9.48	
For Elevated Installation >40', Add	10.43	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69	
26 05 33 13-0683 EA 2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	27.04	9.75
For Work In Restricted Working Space, Add	7.31	
For Elevated Installation >10' To 15', Add	2.44	
For Elevated Installation >15' To 20', Add	4.88	
For Elevated Installation >20' To 25', Add	6.10	
For Elevated Installation >25' To 30', Add	8.53	
For Elevated Installation >30' To 35', Add	9.75	
For Elevated Installation >35' To 40', Add	12.19	
For Elevated Installation >40', Add	13.41	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.31	
26 05 33 13-0684 EA 2-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	40.52	13.01
For Work In Restricted Working Space, Add	9.75	
For Elevated Installation >10' To 15', Add	3.25	
For Elevated Installation >15' To 20', Add	6.50	
For Elevated Installation >20' To 25', Add	8.13	
For Elevated Installation >25' To 30', Add	11.38	
For Elevated Installation >30' To 35', Add	13.00	
For Elevated Installation >35' To 40', Add	16.26	
For Elevated Installation >40', Add	17.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.75	
26 05 33 13-0685 EA 3" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	51.11	16.25
For Work In Restricted Working Space, Add	12.19	
For Elevated Installation >10' To 15', Add	4.06	
For Elevated Installation >15' To 20', Add	8.13	
For Elevated Installation >20' To 25', Add	10.16	
For Elevated Installation >25' To 30', Add	14.22	
For Elevated Installation >30' To 35', Add	16.25	
For Elevated Installation >35' To 40', Add	20.32	
For Elevated Installation >40', Add	22.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.19	
26 05 33 13-0686 EA 3-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	63.56	18.96
For Work In Restricted Working Space, Add	14.22	
For Elevated Installation >10' To 15', Add	4.74	
For Elevated Installation >15' To 20', Add	9.48	
For Elevated Installation >20' To 25', Add	11.85	
For Elevated Installation >25' To 30', Add	16.59	
For Elevated Installation >30' To 35', Add	18.96	
For Elevated Installation >35' To 40', Add	23.71	
For Elevated Installation >40', Add	26.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.22	
26 05 33 13-0687 EA 4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	71.70	21.67
For Work In Restricted Working Space, Add	16.25	
For Elevated Installation >10' To 15', Add	5.42	
For Elevated Installation >15' To 20', Add	10.84	
For Elevated Installation >20' To 25', Add	13.55	
For Elevated Installation >25' To 30', Add	18.96	
For Elevated Installation >30' To 35', Add	21.67	
For Elevated Installation >35' To 40', Add	27.09	
For Elevated Installation >40', Add	29.80	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.25	
26 05 33 13-0688 Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connectors		
(26 05 33 13-0598)		
26 05 33 13-0689 EA 1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	9.63	3.66
For Work In Restricted Working Space, Add	2.72	
For Elevated Installation >10' To 15', Add	0.91	
For Elevated Installation >15' To 20', Add	1.82	
For Elevated Installation >20' To 25', Add	2.27	
For Elevated Installation >25' To 30', Add	3.18	
For Elevated Installation >30' To 35', Add	3.63	
For Elevated Installation >35' To 40', Add	4.54	
For Elevated Installation >40', Add	4.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.72	
26 05 33 13-0690 EA 3/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	10.65	3.93
For Work In Restricted Working Space, Add	2.97	
For Elevated Installation >10' To 15', Add	0.99	
For Elevated Installation >15' To 20', Add	1.98	
For Elevated Installation >20' To 25', Add	2.47	
For Elevated Installation >25' To 30', Add	3.46	
For Elevated Installation >30' To 35', Add	3.96	
For Elevated Installation >35' To 40', Add	4.95	
For Elevated Installation >40', Add	5.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.97	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0691	EA	1"	Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.19 3.62 1.21 2.41 3.01 4.22 4.82 6.03 6.63 3.62	4.88
26 05 33 13-0692	EA	1-1/4"	Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.56 4.63 1.54 3.09 3.86 5.40 6.18 7.72 8.49 4.63	6.23
26 05 33 13-0693	EA	1-1/2"	Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.02 5.41 1.80 3.60 4.51 6.31 7.21 9.01 9.91 5.41	7.17
26 05 33 13-0694	EA	2"	Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.86 6.50 2.17 4.33 5.42 7.58 8.67 10.84 11.92 6.50	8.67
26 05 33 13-0695	EA	2-1/2"	Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44.28 9.02 3.01 6.01 7.52 10.52 12.03 15.04 16.54 9.02	12.05
26 05 33 13-0696	EA	3"	Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.42 12.03 4.01 8.02 10.02 14.03 16.04 20.05 22.05 12.03	15.98
26 05 33 13-0697	EA	3-1/2"	Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	79.86 15.48 5.16 10.32 12.90 18.06 20.64 25.81 28.39 15.48	20.59
26 05 33 13-0698	EA	4"	Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	100.77 20.32 6.77 13.55 16.93 23.71 27.09 33.87 37.25 20.32	27.09

26 05 33 13-0699 Electrical Metallic Tubing (EMT) Expansion Coupling (26 05 33 13-0598)
Note: Excludes jumper.

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0700 EA 1/2" Electrical Metallic Tubing (EMT) Expansion Coupling	67.49	18.02
For Work In Restricted Working Space, Add	13.52	
For Elevated Installation >10' To 15', Add	4.51	
For Elevated Installation >15' To 20', Add	9.02	
For Elevated Installation >20' To 25', Add	11.27	
For Elevated Installation >25' To 30', Add	15.78	
For Elevated Installation >30' To 35', Add	18.03	
For Elevated Installation >35' To 40', Add	22.54	
For Elevated Installation >40', Add	24.79	
26 05 33 13-0701 EA 3/4" Electrical Metallic Tubing (EMT) Expansion Coupling	81.37	21.81
For Work In Restricted Working Space, Add	16.39	
For Elevated Installation >10' To 15', Add	5.46	
For Elevated Installation >15' To 20', Add	10.93	
For Elevated Installation >20' To 25', Add	13.66	
For Elevated Installation >25' To 30', Add	19.12	
For Elevated Installation >30' To 35', Add	21.86	
For Elevated Installation >35' To 40', Add	27.32	
For Elevated Installation >40', Add	30.05	
26 05 33 13-0702 EA 1" Electrical Metallic Tubing (EMT) Expansion Coupling	100.21	27.36
For Work In Restricted Working Space, Add	20.49	
For Elevated Installation >10' To 15', Add	6.83	
For Elevated Installation >15' To 20', Add	13.66	
For Elevated Installation >20' To 25', Add	17.08	
For Elevated Installation >25' To 30', Add	23.91	
For Elevated Installation >30' To 35', Add	27.32	
For Elevated Installation >35' To 40', Add	34.15	
For Elevated Installation >40', Add	37.57	
26 05 33 13-0703 EA 1-1/4" Electrical Metallic Tubing (EMT) Expansion Coupling	128.72	33.59
For Work In Restricted Working Space, Add	25.21	
For Elevated Installation >10' To 15', Add	8.40	
For Elevated Installation >15' To 20', Add	16.80	
For Elevated Installation >20' To 25', Add	21.01	
For Elevated Installation >25' To 30', Add	29.41	
For Elevated Installation >30' To 35', Add	33.61	
For Elevated Installation >35' To 40', Add	42.01	
For Elevated Installation >40', Add	46.21	
26 05 33 13-0704 EA 1-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling	158.78	39.41
For Work In Restricted Working Space, Add	29.56	
For Elevated Installation >10' To 15', Add	9.85	
For Elevated Installation >15' To 20', Add	19.71	
For Elevated Installation >20' To 25', Add	24.64	
For Elevated Installation >25' To 30', Add	34.49	
For Elevated Installation >30' To 35', Add	39.42	
For Elevated Installation >35' To 40', Add	49.27	
For Elevated Installation >40', Add	54.20	
26 05 33 13-0705 EA 2" Electrical Metallic Tubing (EMT) Expansion Coupling	198.34	47.95
For Work In Restricted Working Space, Add	36.00	
For Elevated Installation >10' To 15', Add	12.00	
For Elevated Installation >15' To 20', Add	24.00	
For Elevated Installation >20' To 25', Add	30.00	
For Elevated Installation >25' To 30', Add	42.00	
For Elevated Installation >30' To 35', Add	48.00	
For Elevated Installation >35' To 40', Add	60.00	
For Elevated Installation >40', Add	66.00	
26 05 33 13-0706 EA 2-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling	363.81	61.63
For Work In Restricted Working Space, Add	46.23	
For Elevated Installation >10' To 15', Add	15.41	
For Elevated Installation >15' To 20', Add	30.82	
For Elevated Installation >20' To 25', Add	38.53	
For Elevated Installation >25' To 30', Add	53.94	
For Elevated Installation >30' To 35', Add	61.64	
For Elevated Installation >35' To 40', Add	77.06	
For Elevated Installation >40', Add	84.76	
26 05 33 13-0707 EA 3" Electrical Metallic Tubing (EMT) Expansion Coupling	443.33	72.06
For Work In Restricted Working Space, Add	54.06	
For Elevated Installation >10' To 15', Add	18.02	
For Elevated Installation >15' To 20', Add	36.04	
For Elevated Installation >20' To 25', Add	45.05	
For Elevated Installation >25' To 30', Add	63.07	
For Elevated Installation >30' To 35', Add	72.08	
For Elevated Installation >35' To 40', Add	90.10	
For Elevated Installation >40', Add	99.11	
26 05 33 13-0708 EA 3-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling	539.58	78.56
For Work In Restricted Working Space, Add	58.94	
For Elevated Installation >10' To 15', Add	19.65	
For Elevated Installation >15' To 20', Add	39.29	
For Elevated Installation >20' To 25', Add	49.12	
For Elevated Installation >25' To 30', Add	68.76	
For Elevated Installation >30' To 35', Add	78.59	
For Elevated Installation >35' To 40', Add	98.24	
For Elevated Installation >40', Add	108.06	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0709	EA		4" Electrical Metallic Tubing (EMT) Expansion Coupling <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	584.83 65.04 21.68 43.36 54.20 75.88 86.72 108.40 119.23	86.69
26 05 33 13-0710			Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapters (26 05 33 13-0598)		
26 05 33 13-0711	EA		1/2" To 3/8" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.37 3.61 1.20 2.40 3.01 4.21 4.81 6.01 6.61 3.61	4.88
26 05 33 13-0712	EA		1/2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.10 3.61 1.20 2.40 3.01 4.21 4.81 6.01 6.61 3.61	4.88
26 05 33 13-0713	EA		3/4" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.76 4.01 1.34 2.67 3.34 4.68 5.35 6.69 7.35 4.01	5.28
26 05 33 13-0714	EA		1" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.28 4.56 1.52 3.04 3.80 5.32 6.08 7.61 8.37 4.56	6.09
26 05 33 13-0715	EA		1-1/4" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.35 5.52 1.84 3.68 4.60 6.44 7.36 9.20 10.11 5.52	7.32
26 05 33 13-0716	EA		1-1/2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.70 6.31 2.10 4.20 5.26 7.36 8.41 10.51 11.56 6.31	8.40
26 05 33 13-0717	EA		2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.77 7.88 2.63 5.25 6.57 9.19 10.51 13.14 14.45 7.88	10.56
26 05 33 13-0718			Electrical Metallic Tubing (EMT) Pulling Elbows (26 05 33 13-0598)		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0719	EA	1/2" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws	27.89	12.20
		For Work In Restricted Working Space, Add	7.31	
		For Elevated Installation >15' To 20', Add	4.88	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.31	
26 05 33 13-0720	EA	3/4" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws	32.53	14.22
		For Work In Restricted Working Space, Add	8.54	
		For Elevated Installation >15' To 20', Add	5.69	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.54	
26 05 33 13-0721	EA	1" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws	39.79	16.25
		For Work In Restricted Working Space, Add	9.75	
		For Elevated Installation >15' To 20', Add	6.50	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.75	
26 05 33 13-0722	EA	1-1/4" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws	50.64	20.32
		For Work In Restricted Working Space, Add	12.19	
		For Elevated Installation >15' To 20', Add	8.13	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.19	
26 05 33 13-0723		Intermediate Metal Conduit (IMC) (26 05 33 13-0058)		
		Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-0724		Intermediate Metal Conduit (IMC) Conduit (26 05 33 13-0723)		
		Note: Includes field bending conduit up to 1".		
26 05 33 13-0725	LF	1/2" Intermediate Metal Conduit (IMC) Conduit	9.40	2.71
		For >250 To 500, Deduct	-0.12	
		For >500 To 1,000, Deduct	-0.18	
		For >1,000, Deduct	-0.24	
		For Installation In Metal Stud Wall, Add	0.70	
		For Installation In Wood Stud Wall (Includes Drilling), Add	1.76	
		For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.06	
		For Work In Restricted Working Space, Add	2.11	
		For Elevated Installation >10' To 15', Add	0.70	
		For Elevated Installation >15' To 20', Add	1.41	
		For Elevated Installation >20' To 25', Add	1.76	
		For Elevated Installation >25' To 30', Add	2.46	
		For Elevated Installation >30' To 35', Add	2.82	
		For Elevated Installation >35' To 40', Add	3.52	
		For Elevated Installation >40', Add	3.87	
26 05 33 13-0726	LF	3/4" Intermediate Metal Conduit (IMC) Conduit	11.21	2.98
		For >250 To 500, Deduct	-0.14	
		For >500 To 1,000, Deduct	-0.21	
		For >1,000, Deduct	-0.28	
		For Installation In Metal Stud Wall, Add	0.84	
		For Installation In Wood Stud Wall (Includes Drilling), Add	2.10	
		For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.26	
		For Work In Restricted Working Space, Add	2.52	
		For Elevated Installation >10' To 15', Add	0.84	
		For Elevated Installation >15' To 20', Add	1.68	
		For Elevated Installation >20' To 25', Add	2.10	
		For Elevated Installation >25' To 30', Add	2.94	
		For Elevated Installation >30' To 35', Add	3.36	
		For Elevated Installation >35' To 40', Add	4.20	
		For Elevated Installation >40', Add	4.62	
26 05 33 13-0727	LF	1" Intermediate Metal Conduit (IMC) Conduit	14.91	3.25
		For >250 To 500, Deduct	-0.22	
		For >500 To 1,000, Deduct	-0.33	
		For >1,000, Deduct	-0.44	
		For Installation In Metal Stud Wall, Add	1.06	
		For Installation In Wood Stud Wall (Includes Drilling), Add	2.64	
		For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.58	
		For Work In Restricted Working Space, Add	3.17	
		For Elevated Installation >10' To 15', Add	1.06	
		For Elevated Installation >15' To 20', Add	2.11	
		For Elevated Installation >20' To 25', Add	2.64	
		For Elevated Installation >25' To 30', Add	3.70	
		For Elevated Installation >30' To 35', Add	4.22	
		For Elevated Installation >35' To 40', Add	5.28	
		For Elevated Installation >40', Add	5.81	
26 05 33 13-0728	LF	1-1/4" Intermediate Metal Conduit (IMC) Conduit	17.14	6.50
		For >250 To 500, Deduct	-0.28	
		For >500 To 1,000, Deduct	-0.41	
		For >1,000, Deduct	-0.55	
		For Installation In Metal Stud Wall, Add	1.16	
		For Installation In Wood Stud Wall (Includes Drilling), Add	2.91	
		For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.75	
		For Work In Restricted Working Space, Add	3.49	
		For Elevated Installation >10' To 15', Add	1.16	
		For Elevated Installation >15' To 20', Add	2.33	
		For Elevated Installation >20' To 25', Add	2.91	
		For Elevated Installation >25' To 30', Add	4.07	
		For Elevated Installation >30' To 35', Add	4.66	
		For Elevated Installation >35' To 40', Add	5.82	
		For Elevated Installation >40', Add	6.40	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0729	LF	1-1/2" Intermediate Metal Conduit (IMC) Conduit	19.24	4.34
			For >250 To 500, Deduct	-0.33	
			For >500 To 1,000, Deduct	-0.49	
			For >1,000, Deduct	-0.65	
			For Installation In Metal Stud Wall, Add	1.27	
			For Installation In Wood Stud Wall (Includes Drilling), Add	3.19	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.91	
			For Work In Restricted Working Space, Add	3.82	
			For Elevated Installation >10' To 15', Add	1.27	
			For Elevated Installation >15' To 20', Add	2.55	
			For Elevated Installation >20' To 25', Add	3.19	
			For Elevated Installation >25' To 30', Add	4.46	
			For Elevated Installation >30' To 35', Add	5.10	
			For Elevated Installation >35' To 40', Add	6.37	
			For Elevated Installation >40', Add	7.01	
26 05 33	13-0730	LF	2" Intermediate Metal Conduit (IMC) Conduit	24.25	4.88
			For >250 To 500, Deduct	-0.44	
			For >500 To 1,000, Deduct	-0.66	
			For >1,000, Deduct	-0.88	
			For Installation In Metal Stud Wall, Add	1.54	
			For Installation In Wood Stud Wall (Includes Drilling), Add	3.86	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.32	
			For Work In Restricted Working Space, Add	4.63	
			For Elevated Installation >10' To 15', Add	1.54	
			For Elevated Installation >15' To 20', Add	3.09	
			For Elevated Installation >20' To 25', Add	3.86	
			For Elevated Installation >25' To 30', Add	5.40	
			For Elevated Installation >30' To 35', Add	6.18	
			For Elevated Installation >35' To 40', Add	7.72	
			For Elevated Installation >40', Add	8.49	
26 05 33	13-0731	LF	2-1/2" Intermediate Metal Conduit (IMC) Conduit	39.98	6.50
			For >250 To 500, Deduct	-0.98	
			For >500 To 1,000, Deduct	-1.46	
			For >1,000, Deduct	-1.95	
			For Installation In Metal Stud Wall, Add	2.05	
			For Installation In Wood Stud Wall (Includes Drilling), Add	5.11	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	3.07	
			For Work In Restricted Working Space, Add	6.14	
			For Elevated Installation >10' To 15', Add	2.05	
			For Elevated Installation >15' To 20', Add	4.09	
			For Elevated Installation >20' To 25', Add	5.11	
			For Elevated Installation >25' To 30', Add	7.16	
			For Elevated Installation >30' To 35', Add	8.18	
			For Elevated Installation >35' To 40', Add	10.23	
			For Elevated Installation >40', Add	11.25	
26 05 33	13-0732	LF	3" Intermediate Metal Conduit (IMC) Conduit	51.13	8.13
			For >250 To 500, Deduct	-1.20	
			For >500 To 1,000, Deduct	-1.80	
			For >1,000, Deduct	-2.40	
			For Installation In Metal Stud Wall, Add	2.71	
			For Installation In Wood Stud Wall (Includes Drilling), Add	6.77	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	4.06	
			For Work In Restricted Working Space, Add	8.13	
			For Elevated Installation >10' To 15', Add	2.71	
			For Elevated Installation >15' To 20', Add	5.42	
			For Elevated Installation >20' To 25', Add	6.77	
			For Elevated Installation >25' To 30', Add	9.48	
			For Elevated Installation >30' To 35', Add	10.84	
			For Elevated Installation >35' To 40', Add	13.55	
			For Elevated Installation >40', Add	14.90	
26 05 33	13-0733	LF	3-1/2" Intermediate Metal Conduit (IMC) Conduit	58.86	9.75
			For >250 To 500, Deduct	-1.39	
			For >500 To 1,000, Deduct	-2.09	
			For >1,000, Deduct	-2.79	
			For Installation In Metal Stud Wall, Add	3.10	
			For Installation In Wood Stud Wall (Includes Drilling), Add	7.75	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	4.65	
			For Work In Restricted Working Space, Add	9.30	
			For Elevated Installation >10' To 15', Add	3.10	
			For Elevated Installation >15' To 20', Add	6.20	
			For Elevated Installation >20' To 25', Add	7.75	
			For Elevated Installation >25' To 30', Add	10.85	
			For Elevated Installation >30' To 35', Add	12.40	
			For Elevated Installation >35' To 40', Add	15.51	
			For Elevated Installation >40', Add	17.06	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0734 LF 4" Intermediate Metal Conduit (IMC) Conduit	68.95	11.37
For >250 To 500, Deduct	-1.64	
For >500 To 1,000, Deduct	-2.46	
For >1,000, Deduct	-3.28	
For Installation In Metal Stud Wall, Add	3.62	
For Installation In Wood Stud Wall (Includes Drilling), Add	9.04	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	5.43	
For Work In Restricted Working Space, Add	10.85	
For Elevated Installation >10' To 15', Add	3.62	
For Elevated Installation >15' To 20', Add	7.23	
For Elevated Installation >20' To 25', Add	9.04	
For Elevated Installation >25' To 30', Add	12.66	
For Elevated Installation >30' To 35', Add	14.47	
For Elevated Installation >35' To 40', Add	18.09	
For Elevated Installation >40', Add	19.89	
26 05 33 13-0735 Intermediate Metal Conduit (IMC) 90 Degree Elbows (26 05 33 13-0723) See CSI section 26 05 33 13-2297 for conduit field bending.		
26 05 33 13-0736 EA 1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	44.92	13.41
For Work In Restricted Working Space, Add	10.09	
For Elevated Installation >10' To 15', Add	3.36	
For Elevated Installation >15' To 20', Add	6.73	
For Elevated Installation >20' To 25', Add	8.41	
For Elevated Installation >25' To 30', Add	11.77	
For Elevated Installation >30' To 35', Add	13.45	
For Elevated Installation >35' To 40', Add	16.82	
For Elevated Installation >40', Add	18.50	
26 05 33 13-0737 EA 3/4" Intermediate Metal Conduit (IMC) 90 Degree Elbow	54.49	16.66
For Work In Restricted Working Space, Add	12.55	
For Elevated Installation >10' To 15', Add	4.18	
For Elevated Installation >15' To 20', Add	8.36	
For Elevated Installation >20' To 25', Add	10.46	
For Elevated Installation >25' To 30', Add	14.64	
For Elevated Installation >30' To 35', Add	16.73	
For Elevated Installation >35' To 40', Add	20.91	
For Elevated Installation >40', Add	23.00	
26 05 33 13-0738 EA 1" Intermediate Metal Conduit (IMC) 90 Degree Elbow	69.00	20.45
For Work In Restricted Working Space, Add	15.30	
For Elevated Installation >10' To 15', Add	5.10	
For Elevated Installation >15' To 20', Add	10.20	
For Elevated Installation >20' To 25', Add	12.75	
For Elevated Installation >25' To 30', Add	17.85	
For Elevated Installation >30' To 35', Add	20.40	
For Elevated Installation >35' To 40', Add	25.50	
For Elevated Installation >40', Add	28.04	
26 05 33 13-0739 EA 1-1/4" Intermediate Metal Conduit (IMC) 90 Degree Elbow	84.46	23.70
For Work In Restricted Working Space, Add	17.76	
For Elevated Installation >10' To 15', Add	5.92	
For Elevated Installation >15' To 20', Add	11.84	
For Elevated Installation >20' To 25', Add	14.80	
For Elevated Installation >25' To 30', Add	20.72	
For Elevated Installation >30' To 35', Add	23.68	
For Elevated Installation >35' To 40', Add	29.61	
For Elevated Installation >40', Add	32.57	
26 05 33 13-0740 EA 1-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	99.89	27.23
For Work In Restricted Working Space, Add	20.39	
For Elevated Installation >10' To 15', Add	6.80	
For Elevated Installation >15' To 20', Add	13.59	
For Elevated Installation >20' To 25', Add	16.99	
For Elevated Installation >25' To 30', Add	23.79	
For Elevated Installation >30' To 35', Add	27.18	
For Elevated Installation >35' To 40', Add	33.98	
For Elevated Installation >40', Add	37.38	
26 05 33 13-0741 EA 2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	120.73	29.93
For Work In Restricted Working Space, Add	22.43	
For Elevated Installation >10' To 15', Add	7.48	
For Elevated Installation >15' To 20', Add	14.95	
For Elevated Installation >20' To 25', Add	18.69	
For Elevated Installation >25' To 30', Add	26.17	
For Elevated Installation >30' To 35', Add	29.90	
For Elevated Installation >35' To 40', Add	37.38	
For Elevated Installation >40', Add	41.12	
26 05 33 13-0742 EA 2-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow	171.49	37.39
For Work In Restricted Working Space, Add	28.04	
For Elevated Installation >10' To 15', Add	9.35	
For Elevated Installation >15' To 20', Add	18.69	
For Elevated Installation >20' To 25', Add	23.36	
For Elevated Installation >25' To 30', Add	32.71	
For Elevated Installation >30' To 35', Add	37.38	
For Elevated Installation >35' To 40', Add	46.73	
For Elevated Installation >40', Add	51.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0743 EA 3" Intermediate Metal Conduit (IMC) 90 Degree Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	246.79 38.19 12.73 25.46 31.83 44.56 50.92 63.66 70.02	50.93
26 05 33 13-0744 EA 3-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	354.53 43.08 14.36 28.72 35.90 50.26 57.44 71.80 78.98	57.43
26 05 33 13-0745 EA 4" Intermediate Metal Conduit (IMC) 90 Degree Elbow For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add	431.57 56.07 18.69 37.38 46.72 65.41 74.76 93.45 102.79	74.77
26 05 33 13-0746 Intermediate Metal Conduit (IMC) Bushing Sets With Locknut (26 05 33 13-0723)		
26 05 33 13-0747 EA 1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.39 5.28	7.04
26 05 33 13-0748 EA 3/4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.65 6.09	0.81
26 05 33 13-0749 EA 1" Intermediate Metal Conduit (IMC) Bushing Set With Locknut For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.96 7.72	10.29
26 05 33 13-0750 EA 1-1/4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.12 9.35	12.47
26 05 33 13-0751 EA 1-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.09 10.16	13.55
26 05 33 13-0752 EA 2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.97 12.60	16.79
26 05 33 13-0753 EA 2-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	89.49 20.32	27.09
26 05 33 13-0754 EA 3" Intermediate Metal Conduit (IMC) Bushing Set With Locknut For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	111.45 27.63	36.85
26 05 33 13-0755 EA 3-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	144.70 32.92	43.89
26 05 33 13-0756 EA 4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	170.57 38.20	50.93
26 05 33 13-0757 Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fittings (26 05 33 13-0723) Note: 3-Piece coupling.		
26 05 33 13-0758 EA 1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	60.29 16.27 5.42 10.85 13.56 18.98 21.70 27.12 29.93 16.27	21.67
26 05 33 13-0759 EA 3/4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.34 18.16 6.05 12.11 15.14 21.19 24.22 30.27 33.30 18.16	24.25
26 05 33 13-0760 EA 1" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	82.48 20.23 6.74 13.49 16.86 23.60 26.98 33.72 37.09 20.23	26.96

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0761 EA 1-1/4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	101.46	29.53
For Work In Restricted Working Space, Add	22.14	
For Elevated Installation >10' To 15', Add	7.38	
For Elevated Installation >15' To 20', Add	14.76	
For Elevated Installation >20' To 25', Add	18.45	
For Elevated Installation >25' To 30', Add	25.83	
For Elevated Installation >30' To 35', Add	29.52	
For Elevated Installation >35' To 40', Add	36.90	
For Elevated Installation >40', Add	40.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.14	
26 05 33 13-0762 EA 1-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	115.46	32.24
For Work In Restricted Working Space, Add	24.22	
For Elevated Installation >10' To 15', Add	8.07	
For Elevated Installation >15' To 20', Add	16.15	
For Elevated Installation >20' To 25', Add	20.19	
For Elevated Installation >25' To 30', Add	28.26	
For Elevated Installation >30' To 35', Add	32.30	
For Elevated Installation >35' To 40', Add	40.37	
For Elevated Installation >40', Add	44.41	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.22	
26 05 33 13-0763 EA 2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	156.87	34.94
For Work In Restricted Working Space, Add	26.23	
For Elevated Installation >10' To 15', Add	8.74	
For Elevated Installation >15' To 20', Add	17.49	
For Elevated Installation >20' To 25', Add	21.86	
For Elevated Installation >25' To 30', Add	30.60	
For Elevated Installation >30' To 35', Add	34.98	
For Elevated Installation >35' To 40', Add	43.72	
For Elevated Installation >40', Add	48.09	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.23	
26 05 33 13-0764 EA 2-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	256.87	43.34
For Work In Restricted Working Space, Add	32.51	
For Elevated Installation >10' To 15', Add	10.84	
For Elevated Installation >15' To 20', Add	21.67	
For Elevated Installation >20' To 25', Add	27.09	
For Elevated Installation >25' To 30', Add	37.93	
For Elevated Installation >30' To 35', Add	43.34	
For Elevated Installation >35' To 40', Add	54.18	
For Elevated Installation >40', Add	59.60	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 05 33 13-0765 EA 3" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	361.93	54.18
For Work In Restricted Working Space, Add	40.64	
For Elevated Installation >10' To 15', Add	13.55	
For Elevated Installation >15' To 20', Add	27.09	
For Elevated Installation >20' To 25', Add	33.86	
For Elevated Installation >25' To 30', Add	47.41	
For Elevated Installation >30' To 35', Add	54.18	
For Elevated Installation >35' To 40', Add	67.73	
For Elevated Installation >40', Add	74.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.64	
26 05 33 13-0766 EA 3-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	526.46	65.02
For Work In Restricted Working Space, Add	48.78	
For Elevated Installation >10' To 15', Add	16.26	
For Elevated Installation >15' To 20', Add	32.52	
For Elevated Installation >20' To 25', Add	40.65	
For Elevated Installation >25' To 30', Add	56.91	
For Elevated Installation >30' To 35', Add	65.04	
For Elevated Installation >35' To 40', Add	81.30	
For Elevated Installation >40', Add	89.43	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.78	
26 05 33 13-0767 EA 4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	606.76	70.44
For Work In Restricted Working Space, Add	52.82	
For Elevated Installation >10' To 15', Add	17.61	
For Elevated Installation >15' To 20', Add	35.21	
For Elevated Installation >20' To 25', Add	44.02	
For Elevated Installation >25' To 30', Add	61.62	
For Elevated Installation >30' To 35', Add	70.43	
For Elevated Installation >35' To 40', Add	88.04	
For Elevated Installation >40', Add	96.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.82	
26 05 33 13-0768 Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connectors (26 05 33 13-0723)		
26 05 33 13-0769 EA 1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	33.68	10.83
For Work In Restricted Working Space, Add	8.13	
For Elevated Installation >10' To 15', Add	2.71	
For Elevated Installation >15' To 20', Add	5.42	
For Elevated Installation >20' To 25', Add	6.77	
For Elevated Installation >25' To 30', Add	9.48	
For Elevated Installation >30' To 35', Add	10.84	
For Elevated Installation >35' To 40', Add	13.55	
For Elevated Installation >40', Add	14.90	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0770	EA		3/4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	37.60	11.92
			For Work In Restricted Working Space, Add	8.94	
			For Elevated Installation >10' To 15', Add	2.98	
			For Elevated Installation >15' To 20', Add	5.96	
			For Elevated Installation >20' To 25', Add	7.45	
			For Elevated Installation >25' To 30', Add	10.43	
			For Elevated Installation >30' To 35', Add	11.92	
			For Elevated Installation >35' To 40', Add	14.90	
			For Elevated Installation >40', Add	16.39	
26 05 33 13-0771	EA		1" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	43.15	13.55
			For Work In Restricted Working Space, Add	10.16	
			For Elevated Installation >10' To 15', Add	3.39	
			For Elevated Installation >15' To 20', Add	6.77	
			For Elevated Installation >20' To 25', Add	8.47	
			For Elevated Installation >25' To 30', Add	11.85	
			For Elevated Installation >30' To 35', Add	13.55	
			For Elevated Installation >35' To 40', Add	16.94	
			For Elevated Installation >40', Add	18.63	
26 05 33 13-0772	EA		1-1/4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	48.82	14.63
			For Work In Restricted Working Space, Add	10.97	
			For Elevated Installation >10' To 15', Add	3.66	
			For Elevated Installation >15' To 20', Add	7.31	
			For Elevated Installation >20' To 25', Add	9.14	
			For Elevated Installation >25' To 30', Add	12.80	
			For Elevated Installation >30' To 35', Add	14.63	
			For Elevated Installation >35' To 40', Add	18.29	
			For Elevated Installation >40', Add	20.11	
26 05 33 13-0773	EA		1-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	57.71	16.25
			For Work In Restricted Working Space, Add	12.19	
			For Elevated Installation >10' To 15', Add	4.06	
			For Elevated Installation >15' To 20', Add	8.13	
			For Elevated Installation >20' To 25', Add	10.16	
			For Elevated Installation >25' To 30', Add	14.22	
			For Elevated Installation >30' To 35', Add	16.25	
			For Elevated Installation >35' To 40', Add	20.32	
			For Elevated Installation >40', Add	22.35	
26 05 33 13-0774	EA		2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	69.95	17.88
			For Work In Restricted Working Space, Add	13.41	
			For Elevated Installation >10' To 15', Add	4.47	
			For Elevated Installation >15' To 20', Add	8.94	
			For Elevated Installation >20' To 25', Add	11.18	
			For Elevated Installation >25' To 30', Add	15.65	
			For Elevated Installation >30' To 35', Add	17.88	
			For Elevated Installation >35' To 40', Add	22.35	
			For Elevated Installation >40', Add	24.59	
26 05 33 13-0775	EA		2-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	94.65	21.67
			For Work In Restricted Working Space, Add	16.25	
			For Elevated Installation >10' To 15', Add	5.42	
			For Elevated Installation >15' To 20', Add	10.84	
			For Elevated Installation >20' To 25', Add	13.55	
			For Elevated Installation >25' To 30', Add	18.96	
			For Elevated Installation >30' To 35', Add	21.67	
			For Elevated Installation >35' To 40', Add	27.09	
			For Elevated Installation >40', Add	29.80	
26 05 33 13-0776	EA		3" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	117.11	27.09
			For Work In Restricted Working Space, Add	20.32	
			For Elevated Installation >10' To 15', Add	6.77	
			For Elevated Installation >15' To 20', Add	13.55	
			For Elevated Installation >20' To 25', Add	16.93	
			For Elevated Installation >25' To 30', Add	23.71	
			For Elevated Installation >30' To 35', Add	27.09	
			For Elevated Installation >35' To 40', Add	33.87	
			For Elevated Installation >40', Add	37.25	
26 05 33 13-0777	EA		3-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	140.68	32.51
			For Work In Restricted Working Space, Add	24.38	
			For Elevated Installation >10' To 15', Add	8.13	
			For Elevated Installation >15' To 20', Add	16.25	
			For Elevated Installation >20' To 25', Add	20.32	
			For Elevated Installation >25' To 30', Add	28.44	
			For Elevated Installation >30' To 35', Add	32.51	
			For Elevated Installation >35' To 40', Add	40.64	
			For Elevated Installation >40', Add	44.70	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0778 EA 4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector.....	158.58	35.21
For Work In Restricted Working Space, Add	26.41	
For Elevated Installation >10' To 15', Add	8.80	
For Elevated Installation >15' To 20', Add	17.61	
For Elevated Installation >20' To 25', Add	22.01	
For Elevated Installation >25' To 30', Add	30.81	
For Elevated Installation >30' To 35', Add	35.22	
For Elevated Installation >35' To 40', Add	44.02	
For Elevated Installation >40', Add	48.42	
26 05 33 13-0779 Intermediate Metal Conduit (IMC) Rain Tight Threaded Hubs (26 05 33 13-0723)		
26 05 33 13-0780 EA 1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	29.85	10.83
For Work In Restricted Working Space, Add	8.13	
For Elevated Installation >10' To 15', Add	2.71	
For Elevated Installation >15' To 20', Add	5.42	
For Elevated Installation >20' To 25', Add	6.78	
For Elevated Installation >25' To 30', Add	9.49	
For Elevated Installation >30' To 35', Add	10.84	
For Elevated Installation >35' To 40', Add	13.55	
For Elevated Installation >40', Add	14.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.13	
26 05 33 13-0781 EA 3/4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	37.98	13.55
For Work In Restricted Working Space, Add	10.16	
For Elevated Installation >10' To 15', Add	3.39	
For Elevated Installation >15' To 20', Add	6.77	
For Elevated Installation >20' To 25', Add	8.47	
For Elevated Installation >25' To 30', Add	11.85	
For Elevated Installation >30' To 35', Add	13.54	
For Elevated Installation >35' To 40', Add	16.93	
For Elevated Installation >40', Add	18.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	
26 05 33 13-0782 EA 1" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	46.72	16.25
For Work In Restricted Working Space, Add	12.19	
For Elevated Installation >10' To 15', Add	4.06	
For Elevated Installation >15' To 20', Add	8.13	
For Elevated Installation >20' To 25', Add	10.16	
For Elevated Installation >25' To 30', Add	14.22	
For Elevated Installation >30' To 35', Add	16.25	
For Elevated Installation >35' To 40', Add	20.32	
For Elevated Installation >40', Add	22.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.19	
26 05 33 13-0783 EA 1-1/4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	56.02	18.96
For Work In Restricted Working Space, Add	14.22	
For Elevated Installation >10' To 15', Add	4.74	
For Elevated Installation >15' To 20', Add	9.48	
For Elevated Installation >20' To 25', Add	11.85	
For Elevated Installation >25' To 30', Add	16.59	
For Elevated Installation >30' To 35', Add	18.96	
For Elevated Installation >35' To 40', Add	23.71	
For Elevated Installation >40', Add	26.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.22	
26 05 33 13-0784 EA 1-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	65.27	21.67
For Work In Restricted Working Space, Add	16.25	
For Elevated Installation >10' To 15', Add	5.42	
For Elevated Installation >15' To 20', Add	10.83	
For Elevated Installation >20' To 25', Add	13.54	
For Elevated Installation >25' To 30', Add	18.96	
For Elevated Installation >30' To 35', Add	21.67	
For Elevated Installation >35' To 40', Add	27.09	
For Elevated Installation >40', Add	29.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.25	
26 05 33 13-0785 EA 2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	76.99	24.38
For Work In Restricted Working Space, Add	18.29	
For Elevated Installation >10' To 15', Add	6.10	
For Elevated Installation >15' To 20', Add	12.19	
For Elevated Installation >20' To 25', Add	15.24	
For Elevated Installation >25' To 30', Add	21.33	
For Elevated Installation >30' To 35', Add	24.38	
For Elevated Installation >35' To 40', Add	30.48	
For Elevated Installation >40', Add	33.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.29	
26 05 33 13-0786 EA 2-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub.....	94.61	27.09
For Work In Restricted Working Space, Add	20.32	
For Elevated Installation >10' To 15', Add	6.77	
For Elevated Installation >15' To 20', Add	13.55	
For Elevated Installation >20' To 25', Add	16.93	
For Elevated Installation >25' To 30', Add	23.71	
For Elevated Installation >30' To 35', Add	27.09	
For Elevated Installation >35' To 40', Add	33.87	
For Elevated Installation >40', Add	37.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.32	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0787	EA		3" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	110.69	29.80
			For Work In Restricted Working Space, Add	22.35	
			For Elevated Installation >10' To 15', Add	7.45	
			For Elevated Installation >15' To 20', Add	14.90	
			For Elevated Installation >20' To 25', Add	18.62	
			For Elevated Installation >25' To 30', Add	26.07	
			For Elevated Installation >30' To 35', Add	29.80	
			For Elevated Installation >35' To 40', Add	37.25	
			For Elevated Installation >40', Add	40.97	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.35	
26 05 33 13-0788	EA		3-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	134.97	35.21
			For Work In Restricted Working Space, Add	26.41	
			For Elevated Installation >10' To 15', Add	8.80	
			For Elevated Installation >15' To 20', Add	17.61	
			For Elevated Installation >20' To 25', Add	22.01	
			For Elevated Installation >25' To 30', Add	30.81	
			For Elevated Installation >30' To 35', Add	35.22	
			For Elevated Installation >35' To 40', Add	44.02	
			For Elevated Installation >40', Add	48.42	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.41	
26 05 33 13-0789	EA		4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	154.03	37.93
			For Work In Restricted Working Space, Add	28.44	
			For Elevated Installation >10' To 15', Add	9.48	
			For Elevated Installation >15' To 20', Add	18.96	
			For Elevated Installation >20' To 25', Add	23.70	
			For Elevated Installation >25' To 30', Add	33.18	
			For Elevated Installation >30' To 35', Add	37.92	
			For Elevated Installation >35' To 40', Add	47.41	
			For Elevated Installation >40', Add	52.15	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.44	
26 05 33 13-0790 Intermediate Metal Conduit (IMC) Expansion Fittings (26 05 33 13-0723)					
26 05 33 13-0791	EA		1/2" Intermediate Metal Conduit (IMC) Expansion Fitting	173.00	21.67
			For Work In Restricted Working Space, Add	16.26	
			For Elevated Installation >10' To 15', Add	5.42	
			For Elevated Installation >15' To 20', Add	10.84	
			For Elevated Installation >20' To 25', Add	13.55	
			For Elevated Installation >25' To 30', Add	18.97	
			For Elevated Installation >30' To 35', Add	21.68	
			For Elevated Installation >35' To 40', Add	27.10	
			For Elevated Installation >40', Add	29.80	
26 05 33 13-0792	EA		3/4" Intermediate Metal Conduit (IMC) Expansion Fitting	191.64	24.38
			For Work In Restricted Working Space, Add	18.29	
			For Elevated Installation >10' To 15', Add	6.10	
			For Elevated Installation >15' To 20', Add	12.19	
			For Elevated Installation >20' To 25', Add	15.24	
			For Elevated Installation >25' To 30', Add	21.33	
			For Elevated Installation >30' To 35', Add	24.38	
			For Elevated Installation >35' To 40', Add	30.48	
			For Elevated Installation >40', Add	33.52	
26 05 33 13-0793	EA		1" Intermediate Metal Conduit (IMC) Expansion Fitting	212.98	27.09
			For Work In Restricted Working Space, Add	20.32	
			For Elevated Installation >10' To 15', Add	6.77	
			For Elevated Installation >15' To 20', Add	13.55	
			For Elevated Installation >20' To 25', Add	16.93	
			For Elevated Installation >25' To 30', Add	23.71	
			For Elevated Installation >30' To 35', Add	27.09	
			For Elevated Installation >35' To 40', Add	33.87	
			For Elevated Installation >40', Add	37.25	
26 05 33 13-0794	EA		1-1/4" Intermediate Metal Conduit (IMC) Expansion Fitting	255.69	29.80
			For Work In Restricted Working Space, Add	22.35	
			For Elevated Installation >10' To 15', Add	7.45	
			For Elevated Installation >15' To 20', Add	14.90	
			For Elevated Installation >20' To 25', Add	18.63	
			For Elevated Installation >25' To 30', Add	26.08	
			For Elevated Installation >30' To 35', Add	29.80	
			For Elevated Installation >35' To 40', Add	37.25	
			For Elevated Installation >40', Add	40.98	
26 05 33 13-0795	EA		1-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting	311.10	32.51
			For Work In Restricted Working Space, Add	24.38	
			For Elevated Installation >10' To 15', Add	8.13	
			For Elevated Installation >15' To 20', Add	16.25	
			For Elevated Installation >20' To 25', Add	20.32	
			For Elevated Installation >25' To 30', Add	28.44	
			For Elevated Installation >30' To 35', Add	32.51	
			For Elevated Installation >35' To 40', Add	40.64	
			For Elevated Installation >40', Add	44.70	
26 05 33 13-0796	EA		2" Intermediate Metal Conduit (IMC) Expansion Fitting	404.96	35.21
			For Work In Restricted Working Space, Add	26.41	
			For Elevated Installation >10' To 15', Add	8.80	
			For Elevated Installation >15' To 20', Add	17.61	
			For Elevated Installation >20' To 25', Add	22.01	
			For Elevated Installation >25' To 30', Add	30.81	
			For Elevated Installation >30' To 35', Add	35.21	
			For Elevated Installation >35' To 40', Add	44.02	
			For Elevated Installation >40', Add	48.42	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0797 EA 2-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting.....	606.18	43.34
For Work In Restricted Working Space, Add	32.51	
For Elevated Installation >10' To 15', Add	10.84	
For Elevated Installation >15' To 20', Add	21.67	
For Elevated Installation >20' To 25', Add	27.09	
For Elevated Installation >25' To 30', Add	37.93	
For Elevated Installation >30' To 35', Add	43.34	
For Elevated Installation >35' To 40', Add	54.18	
For Elevated Installation >40', Add	59.60	
26 05 33 13-0798 EA 3" Intermediate Metal Conduit (IMC) Expansion Fitting.....	729.88	54.18
For Work In Restricted Working Space, Add	40.64	
For Elevated Installation >10' To 15', Add	13.55	
For Elevated Installation >15' To 20', Add	27.09	
For Elevated Installation >20' To 25', Add	33.86	
For Elevated Installation >25' To 30', Add	47.41	
For Elevated Installation >30' To 35', Add	54.18	
For Elevated Installation >35' To 40', Add	67.73	
For Elevated Installation >40', Add	74.50	
26 05 33 13-0799 EA 3-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting.....	1,011.77	65.02
For Work In Restricted Working Space, Add	48.77	
For Elevated Installation >10' To 15', Add	16.26	
For Elevated Installation >15' To 20', Add	32.51	
For Elevated Installation >20' To 25', Add	40.64	
For Elevated Installation >25' To 30', Add	56.90	
For Elevated Installation >30' To 35', Add	65.02	
For Elevated Installation >35' To 40', Add	81.28	
For Elevated Installation >40', Add	89.41	
26 05 33 13-0800 EA 4" Intermediate Metal Conduit (IMC) Expansion Fitting.....	1,167.55	70.44
For Work In Restricted Working Space, Add	52.82	
For Elevated Installation >10' To 15', Add	17.61	
For Elevated Installation >15' To 20', Add	35.21	
For Elevated Installation >20' To 25', Add	44.02	
For Elevated Installation >25' To 30', Add	61.62	
For Elevated Installation >30' To 35', Add	70.43	
For Elevated Installation >35' To 40', Add	88.04	
For Elevated Installation >40', Add	96.84	
26 05 33 13-0801 Intermediate Metal Conduit (IMC) Sealing Fittings, Vertical/Horizontal (26 05 33 13-0723)		
26 05 33 13-0802 EA 1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	113.45	33.86
For Work In Restricted Working Space, Add	20.32	
For Elevated Installation >10' To 15', Add	6.77	
For Elevated Installation >15' To 20', Add	13.55	
For Elevated Installation >20' To 25', Add	16.93	
For Elevated Installation >25' To 30', Add	23.71	
For Elevated Installation >30' To 35', Add	27.09	
For Elevated Installation >35' To 40', Add	33.87	
For Elevated Installation >40', Add	37.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.32	
26 05 33 13-0803 EA 3/4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	134.96	40.63
For Work In Restricted Working Space, Add	24.38	
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.51	
For Elevated Installation >35' To 40', Add	40.64	
For Elevated Installation >40', Add	44.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.38	
26 05 33 13-0804 EA 1" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	163.83	47.41
For Work In Restricted Working Space, Add	28.45	
For Elevated Installation >10' To 15', Add	9.48	
For Elevated Installation >15' To 20', Add	18.96	
For Elevated Installation >20' To 25', Add	23.71	
For Elevated Installation >25' To 30', Add	33.19	
For Elevated Installation >30' To 35', Add	37.93	
For Elevated Installation >35' To 40', Add	47.41	
For Elevated Installation >40', Add	52.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.45	
26 05 33 13-0805 EA 1-1/4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	192.16	54.18
For Work In Restricted Working Space, Add	32.51	
For Elevated Installation >10' To 15', Add	10.84	
For Elevated Installation >15' To 20', Add	21.67	
For Elevated Installation >20' To 25', Add	27.09	
For Elevated Installation >25' To 30', Add	37.93	
For Elevated Installation >30' To 35', Add	43.34	
For Elevated Installation >35' To 40', Add	54.18	
For Elevated Installation >40', Add	59.60	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0806	EA	1-1/2"	Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	248.07	60.96
			For Work In Restricted Working Space, Add	36.57	
			For Elevated Installation >10' To 15', Add	12.19	
			For Elevated Installation >15' To 20', Add	24.38	
			For Elevated Installation >20' To 25', Add	30.48	
			For Elevated Installation >25' To 30', Add	42.67	
			For Elevated Installation >30' To 35', Add	48.76	
			For Elevated Installation >35' To 40', Add	60.95	
			For Elevated Installation >40', Add	67.05	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.57	
26 05 33 13-0807	EA	2"	Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	298.91	67.73
			For Work In Restricted Working Space, Add	40.64	
			For Elevated Installation >10' To 15', Add	13.55	
			For Elevated Installation >15' To 20', Add	27.09	
			For Elevated Installation >20' To 25', Add	33.86	
			For Elevated Installation >25' To 30', Add	47.41	
			For Elevated Installation >30' To 35', Add	54.18	
			For Elevated Installation >35' To 40', Add	67.73	
			For Elevated Installation >40', Add	74.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.64	
26 05 33 13-0808	EA	2-1/2"	Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	416.51	81.27
			For Work In Restricted Working Space, Add	48.76	
			For Elevated Installation >10' To 15', Add	16.25	
			For Elevated Installation >15' To 20', Add	32.51	
			For Elevated Installation >20' To 25', Add	40.64	
			For Elevated Installation >25' To 30', Add	56.89	
			For Elevated Installation >30' To 35', Add	65.02	
			For Elevated Installation >35' To 40', Add	81.27	
			For Elevated Installation >40', Add	89.40	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.76	
26 05 33 13-0809	EA	3"	Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	499.87	94.82
			For Work In Restricted Working Space, Add	56.89	
			For Elevated Installation >10' To 15', Add	18.96	
			For Elevated Installation >15' To 20', Add	37.93	
			For Elevated Installation >20' To 25', Add	47.41	
			For Elevated Installation >25' To 30', Add	66.37	
			For Elevated Installation >30' To 35', Add	75.85	
			For Elevated Installation >35' To 40', Add	94.82	
			For Elevated Installation >40', Add	104.30	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.89	
26 05 33 13-0810	EA	3-1/2"	Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	1,111.46	108.36
			For Work In Restricted Working Space, Add	65.02	
			For Elevated Installation >10' To 15', Add	21.67	
			For Elevated Installation >15' To 20', Add	43.34	
			For Elevated Installation >20' To 25', Add	54.18	
			For Elevated Installation >25' To 30', Add	75.85	
			For Elevated Installation >30' To 35', Add	86.69	
			For Elevated Installation >35' To 40', Add	108.36	
			For Elevated Installation >40', Add	119.20	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	65.02	
26 05 33 13-0811	EA	4"	Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	1,279.35	121.90
			For Work In Restricted Working Space, Add	73.15	
			For Elevated Installation >10' To 15', Add	24.38	
			For Elevated Installation >15' To 20', Add	48.76	
			For Elevated Installation >20' To 25', Add	60.96	
			For Elevated Installation >25' To 30', Add	85.34	
			For Elevated Installation >30' To 35', Add	97.53	
			For Elevated Installation >35' To 40', Add	121.91	
			For Elevated Installation >40', Add	134.10	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.15	
26 05 33 13-0812			Intermediate Metal Conduit (IMC) Threaded Couplings (26 05 33 13-0723)		
26 05 33 13-0813	EA	1/2"	Intermediate Metal Conduit (IMC) Threaded Coupling.....	17.80	6.50
			For Work In Restricted Working Space, Add	4.87	
			For Elevated Installation >10' To 15', Add	1.62	
			For Elevated Installation >15' To 20', Add	3.25	
			For Elevated Installation >20' To 25', Add	4.06	
			For Elevated Installation >25' To 30', Add	5.68	
			For Elevated Installation >30' To 35', Add	6.50	
			For Elevated Installation >35' To 40', Add	8.12	
			For Elevated Installation >40', Add	8.93	
26 05 33 13-0814	EA	3/4"	Intermediate Metal Conduit (IMC) Threaded Coupling.....	24.93	9.21
			For Work In Restricted Working Space, Add	6.91	
			For Elevated Installation >10' To 15', Add	2.30	
			For Elevated Installation >15' To 20', Add	4.61	
			For Elevated Installation >20' To 25', Add	5.76	
			For Elevated Installation >25' To 30', Add	8.06	
			For Elevated Installation >30' To 35', Add	9.22	
			For Elevated Installation >35' To 40', Add	11.52	
			For Elevated Installation >40', Add	12.67	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0815 EA 1" Intermediate Metal Conduit (IMC) Threaded Coupling	32.60	11.92
For Work In Restricted Working Space, Add	8.93	
For Elevated Installation >10' To 15', Add	2.98	
For Elevated Installation >15' To 20', Add	5.96	
For Elevated Installation >20' To 25', Add	7.45	
For Elevated Installation >25' To 30', Add	10.42	
For Elevated Installation >30' To 35', Add	11.91	
For Elevated Installation >35' To 40', Add	14.89	
For Elevated Installation >40', Add	16.38	
26 05 33 13-0816 EA 1-1/4" Intermediate Metal Conduit (IMC) Threaded Coupling	37.40	13.55
For Work In Restricted Working Space, Add	10.16	
For Elevated Installation >10' To 15', Add	3.39	
For Elevated Installation >15' To 20', Add	6.77	
For Elevated Installation >20' To 25', Add	8.47	
For Elevated Installation >25' To 30', Add	11.85	
For Elevated Installation >30' To 35', Add	13.55	
For Elevated Installation >35' To 40', Add	16.94	
For Elevated Installation >40', Add	18.63	
26 05 33 13-0817 EA 1-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling	45.07	16.25
For Work In Restricted Working Space, Add	12.18	
For Elevated Installation >10' To 15', Add	4.06	
For Elevated Installation >15' To 20', Add	8.12	
For Elevated Installation >20' To 25', Add	10.15	
For Elevated Installation >25' To 30', Add	14.21	
For Elevated Installation >30' To 35', Add	16.24	
For Elevated Installation >35' To 40', Add	20.31	
For Elevated Installation >40', Add	22.34	
26 05 33 13-0818 EA 2" Intermediate Metal Conduit (IMC) Threaded Coupling	51.94	18.42
For Work In Restricted Working Space, Add	13.82	
For Elevated Installation >10' To 15', Add	4.61	
For Elevated Installation >15' To 20', Add	9.21	
For Elevated Installation >20' To 25', Add	11.52	
For Elevated Installation >25' To 30', Add	16.12	
For Elevated Installation >30' To 35', Add	18.43	
For Elevated Installation >35' To 40', Add	23.04	
For Elevated Installation >40', Add	25.34	
26 05 33 13-0819 EA 2-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling	64.46	20.59
For Work In Restricted Working Space, Add	15.44	
For Elevated Installation >10' To 15', Add	5.15	
For Elevated Installation >15' To 20', Add	10.29	
For Elevated Installation >20' To 25', Add	12.87	
For Elevated Installation >25' To 30', Add	18.01	
For Elevated Installation >30' To 35', Add	20.58	
For Elevated Installation >35' To 40', Add	25.73	
For Elevated Installation >40', Add	28.30	
26 05 33 13-0820 EA 3" Intermediate Metal Conduit (IMC) Threaded Coupling	76.00	23.30
For Work In Restricted Working Space, Add	17.48	
For Elevated Installation >10' To 15', Add	5.83	
For Elevated Installation >15' To 20', Add	11.65	
For Elevated Installation >20' To 25', Add	14.56	
For Elevated Installation >25' To 30', Add	20.39	
For Elevated Installation >30' To 35', Add	23.30	
For Elevated Installation >35' To 40', Add	29.13	
For Elevated Installation >40', Add	32.04	
26 05 33 13-0821 EA 3-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling	87.41	25.46
For Work In Restricted Working Space, Add	19.10	
For Elevated Installation >10' To 15', Add	6.37	
For Elevated Installation >15' To 20', Add	12.74	
For Elevated Installation >20' To 25', Add	15.92	
For Elevated Installation >25' To 30', Add	22.29	
For Elevated Installation >30' To 35', Add	25.47	
For Elevated Installation >35' To 40', Add	31.84	
For Elevated Installation >40', Add	35.02	
26 05 33 13-0822 EA 4" Intermediate Metal Conduit (IMC) Threaded Coupling	91.61	27.09
For Work In Restricted Working Space, Add	20.31	
For Elevated Installation >10' To 15', Add	6.77	
For Elevated Installation >15' To 20', Add	13.54	
For Elevated Installation >20' To 25', Add	16.93	
For Elevated Installation >25' To 30', Add	23.70	
For Elevated Installation >30' To 35', Add	27.08	
For Elevated Installation >35' To 40', Add	33.85	
For Elevated Installation >40', Add	37.24	
26 05 33 13-0823 Intermediate Metal Conduit (IMC) Reducer Bushings (26 05 33 13-0723)		
26 05 33 13-0824 EA 1/2" To 3/4" Intermediate Metal Conduit (IMC) Reducing Bushing	8.52	2.71
For Work In Restricted Working Space, Add	2.03	
For Elevated Installation >10' To 15', Add	0.68	
For Elevated Installation >15' To 20', Add	1.35	
For Elevated Installation >20' To 25', Add	1.69	
For Elevated Installation >25' To 30', Add	2.37	
For Elevated Installation >30' To 35', Add	2.71	
For Elevated Installation >35' To 40', Add	3.39	
For Elevated Installation >40', Add	3.72	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0825	EA		3/4" To 1" Intermediate Metal Conduit (IMC) Reducing Bushing	9.52	2.71
			For Work In Restricted Working Space, Add	2.03	
			For Elevated Installation >10' To 15', Add	0.68	
			For Elevated Installation >15' To 20', Add	1.35	
			For Elevated Installation >20' To 25', Add	1.69	
			For Elevated Installation >25' To 30', Add	2.37	
			For Elevated Installation >30' To 35', Add	2.71	
			For Elevated Installation >35' To 40', Add	3.39	
			For Elevated Installation >40', Add	3.72	
26 05 33 13-0826			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit (26 05 33 13-0058)		
			Note: 40 mil polyvinyl chloride (PVC) coated, 2 mil urethane lined (Ocal Blue, Crouse-Hinds, Appleton or O-Z/Gedney). Used in hazardous locations. Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-0827			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit (26 05 33 13-0826)		
			Note: Includes field bending for conduit up to 1".		
26 05 33 13-0828	LF		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	15.12	3.79
			For >250 To 500, Deduct	-0.52	
			For >500 To 1,000, Deduct	-0.90	
			For >1,000, Deduct	-1.28	
			For Elevated Installation >10' To 15', Add	0.95	
			For Elevated Installation >15' To 20', Add	1.90	
			For Elevated Installation >20' To 25', Add	2.37	
			For Elevated Installation >25' To 30', Add	3.32	
			For Elevated Installation >30' To 35', Add	3.79	
			For Elevated Installation >35' To 40', Add	4.74	
			For Elevated Installation >40', Add	5.21	
			For Work In Restricted Working Space, Add	2.84	
26 05 33 13-0829	LF		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	17.37	4.34
			For >250 To 500, Deduct	-0.60	
			For >500 To 1,000, Deduct	-1.03	
			For >1,000, Deduct	-1.47	
			For Elevated Installation >10' To 15', Add	1.08	
			For Elevated Installation >15' To 20', Add	2.17	
			For Elevated Installation >20' To 25', Add	2.71	
			For Elevated Installation >25' To 30', Add	3.79	
			For Elevated Installation >30' To 35', Add	4.33	
			For Elevated Installation >35' To 40', Add	5.42	
			For Elevated Installation >40', Add	5.96	
			For Work In Restricted Working Space, Add	3.25	
26 05 33 13-0830	LF		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	22.02	5.42
			For >250 To 500, Deduct	-0.76	
			For >500 To 1,000, Deduct	-1.31	
			For >1,000, Deduct	-1.86	
			For Elevated Installation >10' To 15', Add	1.36	
			For Elevated Installation >15' To 20', Add	2.71	
			For Elevated Installation >20' To 25', Add	3.39	
			For Elevated Installation >25' To 30', Add	4.74	
			For Elevated Installation >30' To 35', Add	5.42	
			For Elevated Installation >35' To 40', Add	6.78	
			For Elevated Installation >40', Add	7.45	
			For Work In Restricted Working Space, Add	4.07	
26 05 33 13-0831	LF		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	26.99	6.50
			For >250 To 500, Deduct	-0.94	
			For >500 To 1,000, Deduct	-1.62	
			For >1,000, Deduct	-2.29	
			For Elevated Installation >10' To 15', Add	1.63	
			For Elevated Installation >15' To 20', Add	3.25	
			For Elevated Installation >20' To 25', Add	4.06	
			For Elevated Installation >25' To 30', Add	5.69	
			For Elevated Installation >30' To 35', Add	6.50	
			For Elevated Installation >35' To 40', Add	8.13	
			For Elevated Installation >40', Add	8.94	
			For Work In Restricted Working Space, Add	4.88	
26 05 33 13-0832	LF		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	33.37	8.13
			For >250 To 500, Deduct	-1.16	
			For >500 To 1,000, Deduct	-1.99	
			For >1,000, Deduct	-2.83	
			For Elevated Installation >10' To 15', Add	2.03	
			For Elevated Installation >15' To 20', Add	4.06	
			For Elevated Installation >20' To 25', Add	5.08	
			For Elevated Installation >25' To 30', Add	7.11	
			For Elevated Installation >30' To 35', Add	8.13	
			For Elevated Installation >35' To 40', Add	10.16	
			For Elevated Installation >40', Add	11.18	
			For Work In Restricted Working Space, Add	6.10	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0833 LF 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	41.39	9.75
For >250 To 500, Deduct	-1.46	
For >500 To 1,000, Deduct	-2.49	
For >1,000, Deduct	-3.53	
For Elevated Installation >10' To 15', Add	2.44	
For Elevated Installation >15' To 20', Add	4.88	
For Elevated Installation >20' To 25', Add	6.10	
For Elevated Installation >25' To 30', Add	8.53	
For Elevated Installation >30' To 35', Add	9.75	
For Elevated Installation >35' To 40', Add	12.19	
For Elevated Installation >40', Add	13.41	
For Work In Restricted Working Space, Add	7.31	
26 05 33 13-0834 LF 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	54.24	11.37
For >250 To 500, Deduct	-2.00	
For >500 To 1,000, Deduct	-3.36	
For >1,000, Deduct	-4.71	
For Elevated Installation >10' To 15', Add	2.85	
For Elevated Installation >15' To 20', Add	5.69	
For Elevated Installation >20' To 25', Add	7.11	
For Elevated Installation >25' To 30', Add	9.96	
For Elevated Installation >30' To 35', Add	11.38	
For Elevated Installation >35' To 40', Add	14.23	
For Elevated Installation >40', Add	15.65	
For Work In Restricted Working Space, Add	8.54	
26 05 33 13-0835 LF 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	67.73	14.09
For >250 To 500, Deduct	-2.51	
For >500 To 1,000, Deduct	-4.20	
For >1,000, Deduct	-5.89	
For Elevated Installation >10' To 15', Add	3.52	
For Elevated Installation >15' To 20', Add	7.04	
For Elevated Installation >20' To 25', Add	8.80	
For Elevated Installation >25' To 30', Add	12.32	
For Elevated Installation >30' To 35', Add	14.08	
For Elevated Installation >35' To 40', Add	17.61	
For Elevated Installation >40', Add	19.37	
For Work In Restricted Working Space, Add	10.56	
26 05 33 13-0836 LF 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	83.12	17.34
For >250 To 500, Deduct	-3.07	
For >500 To 1,000, Deduct	-5.15	
For >1,000, Deduct	-7.23	
For Elevated Installation >10' To 15', Add	4.33	
For Elevated Installation >15' To 20', Add	8.67	
For Elevated Installation >20' To 25', Add	10.84	
For Elevated Installation >25' To 30', Add	15.17	
For Elevated Installation >30' To 35', Add	17.34	
For Elevated Installation >35' To 40', Add	21.67	
For Elevated Installation >40', Add	23.84	
For Work In Restricted Working Space, Add	13.00	
26 05 33 13-0837 LF 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	98.37	20.59
For >250 To 500, Deduct	-3.63	
For >500 To 1,000, Deduct	-6.09	
For >1,000, Deduct	-8.55	
For Elevated Installation >10' To 15', Add	5.15	
For Elevated Installation >15' To 20', Add	10.29	
For Elevated Installation >20' To 25', Add	12.87	
For Elevated Installation >25' To 30', Add	18.01	
For Elevated Installation >30' To 35', Add	20.59	
For Elevated Installation >35' To 40', Add	25.74	
For Elevated Installation >40', Add	28.31	
For Work In Restricted Working Space, Add	15.44	
26 05 33 13-0838 LF 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	144.07	24.38
For >250 To 500, Deduct	-5.68	
For >500 To 1,000, Deduct	-9.28	
For >1,000, Deduct	-12.88	
For Elevated Installation >10' To 15', Add	6.10	
For Elevated Installation >15' To 20', Add	12.19	
For Elevated Installation >20' To 25', Add	15.24	
For Elevated Installation >25' To 30', Add	21.34	
For Elevated Installation >30' To 35', Add	24.38	
For Elevated Installation >35' To 40', Add	30.48	
For Elevated Installation >40', Add	33.53	
For Work In Restricted Working Space, Add	18.29	
26 05 33 13-0839 LF 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	195.16	32.51
For >250 To 500, Deduct	-7.73	
For >500 To 1,000, Deduct	-12.61	
For >1,000, Deduct	-17.48	
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.51	
For Elevated Installation >35' To 40', Add	40.64	
For Elevated Installation >40', Add	44.70	
For Work In Restricted Working Space, Add	24.38	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0840			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Couplings (26 05 33 13-0826)		
26 05 33 13-0841	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	22.21	8.13
			For Elevated Installation >10' To 15', Add	1.63	
			For Elevated Installation >15' To 20', Add	3.25	
			For Elevated Installation >20' To 25', Add	4.06	
			For Elevated Installation >25' To 30', Add	5.69	
			For Elevated Installation >30' To 35', Add	6.50	
			For Elevated Installation >35' To 40', Add	8.13	
			For Elevated Installation >40', Add	8.94	
			For Work In Restricted Working Space, Add	4.88	
26 05 33 13-0842	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	29.28	11.51
			For Elevated Installation >10' To 15', Add	2.30	
			For Elevated Installation >15' To 20', Add	4.61	
			For Elevated Installation >20' To 25', Add	5.76	
			For Elevated Installation >25' To 30', Add	8.06	
			For Elevated Installation >30' To 35', Add	9.21	
			For Elevated Installation >35' To 40', Add	11.52	
			For Elevated Installation >40', Add	12.67	
			For Work In Restricted Working Space, Add	6.91	
26 05 33 13-0843	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	37.91	14.90
			For Elevated Installation >10' To 15', Add	2.98	
			For Elevated Installation >15' To 20', Add	5.96	
			For Elevated Installation >20' To 25', Add	7.45	
			For Elevated Installation >25' To 30', Add	10.43	
			For Elevated Installation >30' To 35', Add	11.92	
			For Elevated Installation >35' To 40', Add	14.90	
			For Elevated Installation >40', Add	16.39	
			For Work In Restricted Working Space, Add	8.94	
26 05 33 13-0844	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	43.32	16.94
			For Elevated Installation >10' To 15', Add	3.39	
			For Elevated Installation >15' To 20', Add	6.77	
			For Elevated Installation >20' To 25', Add	8.47	
			For Elevated Installation >25' To 30', Add	11.85	
			For Elevated Installation >30' To 35', Add	13.54	
			For Elevated Installation >35' To 40', Add	16.93	
			For Elevated Installation >40', Add	18.62	
			For Work In Restricted Working Space, Add	10.16	
26 05 33 13-0845	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	51.87	20.32
			For Elevated Installation >10' To 15', Add	4.06	
			For Elevated Installation >15' To 20', Add	8.13	
			For Elevated Installation >20' To 25', Add	10.16	
			For Elevated Installation >25' To 30', Add	14.22	
			For Elevated Installation >30' To 35', Add	16.25	
			For Elevated Installation >35' To 40', Add	20.32	
			For Elevated Installation >40', Add	22.35	
			For Work In Restricted Working Space, Add	12.19	
26 05 33 13-0846	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	62.51	23.03
			For Elevated Installation >10' To 15', Add	4.61	
			For Elevated Installation >15' To 20', Add	9.21	
			For Elevated Installation >20' To 25', Add	11.52	
			For Elevated Installation >25' To 30', Add	16.12	
			For Elevated Installation >30' To 35', Add	18.42	
			For Elevated Installation >35' To 40', Add	23.03	
			For Elevated Installation >40', Add	25.33	
			For Work In Restricted Working Space, Add	13.82	
26 05 33 13-0847	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	92.19	23.03
			For Elevated Installation >10' To 15', Add	5.15	
			For Elevated Installation >15' To 20', Add	10.29	
			For Elevated Installation >20' To 25', Add	12.87	
			For Elevated Installation >25' To 30', Add	18.01	
			For Elevated Installation >30' To 35', Add	20.59	
			For Elevated Installation >35' To 40', Add	25.74	
			For Elevated Installation >40', Add	28.31	
			For Work In Restricted Working Space, Add	15.44	
26 05 33 13-0848	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	107.69	31.84
			For Elevated Installation >10' To 15', Add	5.82	
			For Elevated Installation >15' To 20', Add	11.65	
			For Elevated Installation >20' To 25', Add	14.56	
			For Elevated Installation >25' To 30', Add	20.38	
			For Elevated Installation >30' To 35', Add	23.30	
			For Elevated Installation >35' To 40', Add	29.12	
			For Elevated Installation >40', Add	32.03	
			For Work In Restricted Working Space, Add	17.47	
26 05 33 13-0849	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	127.11	31.84
			For Elevated Installation >10' To 15', Add	6.37	
			For Elevated Installation >15' To 20', Add	12.73	
			For Elevated Installation >20' To 25', Add	15.92	
			For Elevated Installation >25' To 30', Add	22.28	
			For Elevated Installation >30' To 35', Add	25.46	
			For Elevated Installation >35' To 40', Add	31.83	
			For Elevated Installation >40', Add	35.01	
			For Work In Restricted Working Space, Add	19.10	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0850 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	141.91	33.86
For Elevated Installation >10' To 15', Add	6.77	
For Elevated Installation >15' To 20', Add	13.55	
For Elevated Installation >20' To 25', Add	16.93	
For Elevated Installation >25' To 30', Add	23.71	
For Elevated Installation >30' To 35', Add	27.09	
For Elevated Installation >35' To 40', Add	33.87	
For Elevated Installation >40', Add	37.25	
For Work In Restricted Working Space, Add	20.32	
26 05 33 13-0851 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	322.99	40.63
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.51	
For Elevated Installation >35' To 40', Add	40.64	
For Elevated Installation >40', Add	44.70	
For Work In Restricted Working Space, Add	24.38	
26 05 33 13-0852 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling	364.84	47.41
For Elevated Installation >10' To 15', Add	9.48	
For Elevated Installation >15' To 20', Add	18.96	
For Elevated Installation >20' To 25', Add	23.71	
For Elevated Installation >25' To 30', Add	33.19	
For Elevated Installation >30' To 35', Add	37.93	
For Elevated Installation >35' To 40', Add	47.41	
For Elevated Installation >40', Add	52.15	
For Work In Restricted Working Space, Add	28.45	
26 05 33 13-0853 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbows (26 05 33 13-0826)		
Note: 90, 45, or 30 degree.		
26 05 33 13-0854 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	64.91	22.02
For Elevated Installation >10' To 15', Add	4.40	
For Elevated Installation >15' To 20', Add	8.80	
For Elevated Installation >20' To 25', Add	11.01	
For Elevated Installation >25' To 30', Add	15.41	
For Elevated Installation >30' To 35', Add	17.61	
For Elevated Installation >35' To 40', Add	22.01	
For Elevated Installation >40', Add	24.21	
For Work In Restricted Working Space, Add	13.21	
26 05 33 13-0855 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	76.27	27.30
For Elevated Installation >10' To 15', Add	5.46	
For Elevated Installation >15' To 20', Add	10.92	
For Elevated Installation >20' To 25', Add	13.65	
For Elevated Installation >25' To 30', Add	19.10	
For Elevated Installation >30' To 35', Add	21.83	
For Elevated Installation >35' To 40', Add	27.29	
For Elevated Installation >40', Add	30.02	
For Work In Restricted Working Space, Add	16.37	
26 05 33 13-0856 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	91.78	33.46
For Elevated Installation >10' To 15', Add	6.69	
For Elevated Installation >15' To 20', Add	13.38	
For Elevated Installation >20' To 25', Add	16.73	
For Elevated Installation >25' To 30', Add	23.42	
For Elevated Installation >30' To 35', Add	26.76	
For Elevated Installation >35' To 40', Add	33.46	
For Elevated Installation >40', Add	36.80	
For Work In Restricted Working Space, Add	20.07	
26 05 33 13-0857 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	108.04	38.74
For Elevated Installation >10' To 15', Add	7.75	
For Elevated Installation >15' To 20', Add	15.50	
For Elevated Installation >20' To 25', Add	19.37	
For Elevated Installation >25' To 30', Add	27.12	
For Elevated Installation >30' To 35', Add	30.99	
For Elevated Installation >35' To 40', Add	38.74	
For Elevated Installation >40', Add	42.61	
For Work In Restricted Working Space, Add	23.24	
26 05 33 13-0858 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	125.60	44.02
For Elevated Installation >10' To 15', Add	8.80	
For Elevated Installation >15' To 20', Add	17.61	
For Elevated Installation >20' To 25', Add	22.01	
For Elevated Installation >25' To 30', Add	30.81	
For Elevated Installation >30' To 35', Add	35.22	
For Elevated Installation >35' To 40', Add	44.02	
For Elevated Installation >40', Add	48.42	
For Work In Restricted Working Space, Add	26.41	
26 05 33 13-0859 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow	149.27	48.42
For Elevated Installation >10' To 15', Add	9.69	
For Elevated Installation >15' To 20', Add	19.37	
For Elevated Installation >20' To 25', Add	24.21	
For Elevated Installation >25' To 30', Add	33.90	
For Elevated Installation >30' To 35', Add	38.74	
For Elevated Installation >35' To 40', Add	48.43	
For Elevated Installation >40', Add	53.27	
For Work In Restricted Working Space, Add	29.06	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0860 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	220.26	60.75
For Elevated Installation >10' To 15', Add	12.15	
For Elevated Installation >15' To 20', Add	24.30	
For Elevated Installation >20' To 25', Add	30.38	
For Elevated Installation >25' To 30', Add	42.53	
For Elevated Installation >30' To 35', Add	48.60	
For Elevated Installation >35' To 40', Add	60.75	
For Elevated Installation >40', Add	66.83	
For Work In Restricted Working Space, Add	36.45	
26 05 33 13-0861 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	323.34	82.76
For Elevated Installation >10' To 15', Add	16.55	
For Elevated Installation >15' To 20', Add	33.10	
For Elevated Installation >20' To 25', Add	41.38	
For Elevated Installation >25' To 30', Add	57.93	
For Elevated Installation >30' To 35', Add	66.21	
For Elevated Installation >35' To 40', Add	82.76	
For Elevated Installation >40', Add	91.04	
For Work In Restricted Working Space, Add	49.66	
26 05 33 13-0862 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	393.74	93.32
For Elevated Installation >10' To 15', Add	18.67	
For Elevated Installation >15' To 20', Add	37.33	
For Elevated Installation >20' To 25', Add	46.67	
For Elevated Installation >25' To 30', Add	65.33	
For Elevated Installation >30' To 35', Add	74.66	
For Elevated Installation >35' To 40', Add	93.33	
For Elevated Installation >40', Add	102.66	
For Work In Restricted Working Space, Add	56.00	
26 05 33 13-0863 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	461.90	121.50
For Elevated Installation >10' To 15', Add	24.30	
For Elevated Installation >15' To 20', Add	48.60	
For Elevated Installation >20' To 25', Add	60.75	
For Elevated Installation >25' To 30', Add	85.05	
For Elevated Installation >30' To 35', Add	97.20	
For Elevated Installation >35' To 40', Add	121.50	
For Elevated Installation >40', Add	133.65	
For Work In Restricted Working Space, Add	72.90	
26 05 33 13-0864 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	923.72	198.10
For Elevated Installation >10' To 15', Add	39.62	
For Elevated Installation >15' To 20', Add	79.24	
For Elevated Installation >20' To 25', Add	99.05	
For Elevated Installation >25' To 30', Add	138.67	
For Elevated Installation >30' To 35', Add	158.48	
For Elevated Installation >35' To 40', Add	198.10	
For Elevated Installation >40', Add	217.91	
For Work In Restricted Working Space, Add	118.86	
26 05 33 13-0865 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	1,443.11	297.59
For Elevated Installation >10' To 15', Add	59.52	
For Elevated Installation >15' To 20', Add	119.04	
For Elevated Installation >20' To 25', Add	148.80	
For Elevated Installation >25' To 30', Add	208.31	
For Elevated Installation >30' To 35', Add	238.07	
For Elevated Installation >35' To 40', Add	297.59	
For Elevated Installation >40', Add	327.35	
For Work In Restricted Working Space, Add	178.55	
26 05 33 13-0866 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbows		
(26 05 33 13-0826)		
26 05 33 13-0867 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	141.02	33.46
For Elevated Installation >10' To 15', Add	6.69	
For Elevated Installation >15' To 20', Add	13.38	
For Elevated Installation >20' To 25', Add	16.73	
For Elevated Installation >25' To 30', Add	23.42	
For Elevated Installation >30' To 35', Add	26.76	
For Elevated Installation >35' To 40', Add	33.46	
For Elevated Installation >40', Add	36.80	
For Work In Restricted Working Space, Add	20.07	
26 05 33 13-0868 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	159.45	38.74
For Elevated Installation >10' To 15', Add	7.75	
For Elevated Installation >15' To 20', Add	15.50	
For Elevated Installation >20' To 25', Add	19.37	
For Elevated Installation >25' To 30', Add	27.12	
For Elevated Installation >30' To 35', Add	30.99	
For Elevated Installation >35' To 40', Add	38.74	
For Elevated Installation >40', Add	42.61	
For Work In Restricted Working Space, Add	23.24	
26 05 33 13-0869 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	181.88	44.02
For Elevated Installation >10' To 15', Add	8.80	
For Elevated Installation >15' To 20', Add	17.61	
For Elevated Installation >20' To 25', Add	22.01	
For Elevated Installation >25' To 30', Add	30.81	
For Elevated Installation >30' To 35', Add	35.22	
For Elevated Installation >35' To 40', Add	44.02	
For Elevated Installation >40', Add	48.42	
For Work In Restricted Working Space, Add	26.41	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0870 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow 214.21		48.42
For Elevated Installation >10' To 15', Add	9.69	
For Elevated Installation >15' To 20', Add	19.37	
For Elevated Installation >20' To 25', Add	24.21	
For Elevated Installation >25' To 30', Add	33.90	
For Elevated Installation >30' To 35', Add	38.74	
For Elevated Installation >35' To 40', Add	48.43	
For Elevated Installation >40', Add	53.27	
For Work In Restricted Working Space, Add	29.06	
26 05 33 13-0871 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow 293.77		60.75
For Elevated Installation >10' To 15', Add	12.15	
For Elevated Installation >15' To 20', Add	24.30	
For Elevated Installation >20' To 25', Add	30.38	
For Elevated Installation >25' To 30', Add	42.53	
For Elevated Installation >30' To 35', Add	48.60	
For Elevated Installation >35' To 40', Add	60.75	
For Elevated Installation >40', Add	66.83	
For Work In Restricted Working Space, Add	36.45	
26 05 33 13-0872 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbows (26 05 33 13-0826)		
26 05 33 13-0873 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow 154.33		33.46
For Elevated Installation >10' To 15', Add	6.69	
For Elevated Installation >15' To 20', Add	13.38	
For Elevated Installation >20' To 25', Add	16.73	
For Elevated Installation >25' To 30', Add	23.42	
For Elevated Installation >30' To 35', Add	26.76	
For Elevated Installation >35' To 40', Add	33.46	
For Elevated Installation >40', Add	36.80	
For Work In Restricted Working Space, Add	20.07	
26 05 33 13-0874 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow 181.45		38.74
For Elevated Installation >10' To 15', Add	7.75	
For Elevated Installation >15' To 20', Add	15.50	
For Elevated Installation >20' To 25', Add	19.37	
For Elevated Installation >25' To 30', Add	27.12	
For Elevated Installation >30' To 35', Add	30.99	
For Elevated Installation >35' To 40', Add	38.74	
For Elevated Installation >40', Add	42.61	
For Work In Restricted Working Space, Add	23.24	
26 05 33 13-0875 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow 197.66		44.02
For Elevated Installation >10' To 15', Add	8.80	
For Elevated Installation >15' To 20', Add	17.61	
For Elevated Installation >20' To 25', Add	22.01	
For Elevated Installation >25' To 30', Add	30.81	
For Elevated Installation >30' To 35', Add	35.22	
For Elevated Installation >35' To 40', Add	44.02	
For Elevated Installation >40', Add	48.42	
For Work In Restricted Working Space, Add	26.41	
26 05 33 13-0876 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow 248.61		48.42
For Elevated Installation >10' To 15', Add	9.69	
For Elevated Installation >15' To 20', Add	19.37	
For Elevated Installation >20' To 25', Add	24.21	
For Elevated Installation >25' To 30', Add	33.90	
For Elevated Installation >30' To 35', Add	38.74	
For Elevated Installation >35' To 40', Add	48.43	
For Elevated Installation >40', Add	53.27	
For Work In Restricted Working Space, Add	29.06	
26 05 33 13-0877 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow 326.94		60.75
For Elevated Installation >10' To 15', Add	12.15	
For Elevated Installation >15' To 20', Add	24.30	
For Elevated Installation >20' To 25', Add	30.38	
For Elevated Installation >25' To 30', Add	42.53	
For Elevated Installation >30' To 35', Add	48.60	
For Elevated Installation >35' To 40', Add	60.75	
For Elevated Installation >40', Add	66.83	
For Work In Restricted Working Space, Add	36.45	
26 05 33 13-0878 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow 421.72		82.76
For Elevated Installation >10' To 15', Add	16.55	
For Elevated Installation >15' To 20', Add	33.10	
For Elevated Installation >20' To 25', Add	41.38	
For Elevated Installation >25' To 30', Add	57.93	
For Elevated Installation >30' To 35', Add	66.21	
For Elevated Installation >35' To 40', Add	82.76	
For Elevated Installation >40', Add	91.04	
For Work In Restricted Working Space, Add	49.66	
26 05 33 13-0879 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbows (26 05 33 13-0826)		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0880	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	170.26 6.69 13.38 16.73 23.42 26.76 33.46 36.80 20.07	33.46
26 05 33	13-0881	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	192.91 7.75 15.50 19.37 27.12 30.99 38.74 42.61 23.24	38.74
26 05 33	13-0882	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	217.90 8.80 17.61 22.01 30.81 35.22 44.02 48.42 26.41	44.02
26 05 33	13-0883	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	260.02 9.69 19.37 24.21 33.90 38.74 48.43 53.27 29.06	48.42
26 05 33	13-0884	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	365.06 12.15 24.30 30.38 42.53 48.60 60.75 66.83 36.45	60.75
26 05 33	13-0885	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	466.47 16.55 33.10 41.38 57.93 66.21 82.76 91.04 49.66	82.76
26 05 33	13-0886	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	581.16 18.67 37.33 46.67 65.33 74.66 93.33 102.66 56.00	93.32
26 05 33	13-0887	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	666.09 24.30 48.60 60.75 85.05 97.20 121.50 133.65 72.90	121.50
26 05 33	13-0888		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbows (26 05 33 13-0826)		
26 05 33	13-0889	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	197.76 6.69 13.38 16.73 23.42 26.76 33.46 36.80 20.07	33.46

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0890 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	219.81	38.74
For Elevated Installation >10' To 15', Add	7.75	
For Elevated Installation >15' To 20', Add	15.50	
For Elevated Installation >20' To 25', Add	19.37	
For Elevated Installation >25' To 30', Add	27.12	
For Elevated Installation >30' To 35', Add	30.99	
For Elevated Installation >35' To 40', Add	38.74	
For Elevated Installation >40', Add	42.61	
For Work In Restricted Working Space, Add	23.24	
26 05 33 13-0891 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	248.44	44.02
For Elevated Installation >10' To 15', Add	8.80	
For Elevated Installation >15' To 20', Add	17.61	
For Elevated Installation >20' To 25', Add	22.01	
For Elevated Installation >25' To 30', Add	30.81	
For Elevated Installation >30' To 35', Add	35.22	
For Elevated Installation >35' To 40', Add	44.02	
For Elevated Installation >40', Add	48.42	
For Work In Restricted Working Space, Add	26.41	
26 05 33 13-0892 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	304.00	48.42
For Elevated Installation >10' To 15', Add	9.69	
For Elevated Installation >15' To 20', Add	19.37	
For Elevated Installation >20' To 25', Add	24.21	
For Elevated Installation >25' To 30', Add	33.90	
For Elevated Installation >30' To 35', Add	38.74	
For Elevated Installation >35' To 40', Add	48.43	
For Elevated Installation >40', Add	53.27	
For Work In Restricted Working Space, Add	29.06	
26 05 33 13-0893 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	433.28	60.75
For Elevated Installation >10' To 15', Add	12.15	
For Elevated Installation >15' To 20', Add	24.30	
For Elevated Installation >20' To 25', Add	30.38	
For Elevated Installation >25' To 30', Add	42.53	
For Elevated Installation >30' To 35', Add	48.60	
For Elevated Installation >35' To 40', Add	60.75	
For Elevated Installation >40', Add	66.83	
For Work In Restricted Working Space, Add	36.45	
26 05 33 13-0894 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	542.29	82.76
For Elevated Installation >10' To 15', Add	16.55	
For Elevated Installation >15' To 20', Add	33.10	
For Elevated Installation >20' To 25', Add	41.38	
For Elevated Installation >25' To 30', Add	57.93	
For Elevated Installation >30' To 35', Add	66.21	
For Elevated Installation >35' To 40', Add	82.76	
For Elevated Installation >40', Add	91.04	
For Work In Restricted Working Space, Add	49.66	
26 05 33 13-0895 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	627.45	93.32
For Elevated Installation >10' To 15', Add	18.67	
For Elevated Installation >15' To 20', Add	37.33	
For Elevated Installation >20' To 25', Add	46.67	
For Elevated Installation >25' To 30', Add	65.33	
For Elevated Installation >30' To 35', Add	74.66	
For Elevated Installation >35' To 40', Add	93.33	
For Elevated Installation >40', Add	102.66	
For Work In Restricted Working Space, Add	56.00	
26 05 33 13-0896 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	751.07	121.50
For Elevated Installation >10' To 15', Add	24.30	
For Elevated Installation >15' To 20', Add	48.60	
For Elevated Installation >20' To 25', Add	60.75	
For Elevated Installation >25' To 30', Add	85.05	
For Elevated Installation >30' To 35', Add	97.20	
For Elevated Installation >35' To 40', Add	121.50	
For Elevated Installation >40', Add	133.65	
For Work In Restricted Working Space, Add	72.90	
26 05 33 13-0897 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbows (26 05 33 13-0826)		
26 05 33 13-0898 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	219.17	33.46
For Elevated Installation >10' To 15', Add	6.69	
For Elevated Installation >15' To 20', Add	13.38	
For Elevated Installation >20' To 25', Add	16.73	
For Elevated Installation >25' To 30', Add	23.42	
For Elevated Installation >30' To 35', Add	26.77	
For Elevated Installation >35' To 40', Add	33.46	
For Elevated Installation >40', Add	36.81	
For Work In Restricted Working Space, Add	20.08	
26 05 33 13-0899 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	244.85	38.74
For Elevated Installation >10' To 15', Add	7.75	
For Elevated Installation >15' To 20', Add	15.50	
For Elevated Installation >20' To 25', Add	19.37	
For Elevated Installation >25' To 30', Add	27.12	
For Elevated Installation >30' To 35', Add	30.99	
For Elevated Installation >35' To 40', Add	38.74	
For Elevated Installation >40', Add	42.61	
For Work In Restricted Working Space, Add	23.24	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0900	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow..... For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	278.50 8.80 17.61 22.01 30.81 35.22 44.02 48.42 26.41	44.02
26 05 33 13-0901	EA	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow..... For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	342.29 9.69 19.37 24.21 33.90 38.74 48.43 53.27 29.06	48.42
26 05 33 13-0902	EA	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow..... For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	470.50 12.15 24.30 30.38 42.53 48.60 60.75 66.83 36.45	60.75
26 05 33 13-0903	EA	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow..... For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	602.93 16.55 33.10 41.38 57.93 66.21 82.76 91.04 49.66	82.76
26 05 33 13-0904	EA	3-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow..... For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	740.01 18.67 37.33 46.67 65.33 74.66 93.33 102.66 56.00	93.32
26 05 33 13-0905	EA	4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow..... For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	829.09 24.30 48.60 60.75 85.05 97.20 121.50 133.65 72.90	121.50
26 05 33 13-0906	EA	5"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow..... For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	1,379.18 39.62 79.24 99.05 138.67 158.48 198.10 217.91 118.86	198.10
26 05 33 13-0907			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbows (26 05 33 13-0826)		
26 05 33 13-0908	EA	1"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow..... For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	247.14 6.69 13.38 16.73 23.42 26.76 33.46 36.80 20.07	33.46
26 05 33 13-0909	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow..... For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	275.10 7.75 15.50 19.37 27.12 30.99 38.74 42.61 23.24	38.74

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0910 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow 311.45		44.02
For Elevated Installation >10' To 15', Add	8.80	
For Elevated Installation >15' To 20', Add	17.61	
For Elevated Installation >20' To 25', Add	22.01	
For Elevated Installation >25' To 30', Add	30.81	
For Elevated Installation >30' To 35', Add	35.22	
For Elevated Installation >35' To 40', Add	44.02	
For Elevated Installation >40', Add	48.42	
For Work In Restricted Working Space, Add	26.41	
26 05 33 13-0911 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow 384.74		48.42
For Elevated Installation >10' To 15', Add	9.69	
For Elevated Installation >15' To 20', Add	19.37	
For Elevated Installation >20' To 25', Add	24.21	
For Elevated Installation >25' To 30', Add	33.90	
For Elevated Installation >30' To 35', Add	38.74	
For Elevated Installation >35' To 40', Add	48.43	
For Elevated Installation >40', Add	53.27	
For Work In Restricted Working Space, Add	29.06	
26 05 33 13-0912 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow 532.52		60.75
For Elevated Installation >10' To 15', Add	12.15	
For Elevated Installation >15' To 20', Add	24.30	
For Elevated Installation >20' To 25', Add	30.38	
For Elevated Installation >25' To 30', Add	42.53	
For Elevated Installation >30' To 35', Add	48.60	
For Elevated Installation >35' To 40', Add	60.75	
For Elevated Installation >40', Add	66.83	
For Work In Restricted Working Space, Add	36.45	
26 05 33 13-0913 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow 680.20		82.76
For Elevated Installation >10' To 15', Add	16.55	
For Elevated Installation >15' To 20', Add	33.10	
For Elevated Installation >20' To 25', Add	41.38	
For Elevated Installation >25' To 30', Add	57.93	
For Elevated Installation >30' To 35', Add	66.21	
For Elevated Installation >35' To 40', Add	82.76	
For Elevated Installation >40', Add	91.04	
For Work In Restricted Working Space, Add	49.66	
26 05 33 13-0914 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow 796.42		93.32
For Elevated Installation >10' To 15', Add	18.67	
For Elevated Installation >15' To 20', Add	37.33	
For Elevated Installation >20' To 25', Add	46.67	
For Elevated Installation >25' To 30', Add	65.33	
For Elevated Installation >30' To 35', Add	74.66	
For Elevated Installation >35' To 40', Add	93.33	
For Elevated Installation >40', Add	102.66	
For Work In Restricted Working Space, Add	56.00	
26 05 33 13-0915 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow 929.81		121.50
For Elevated Installation >10' To 15', Add	24.30	
For Elevated Installation >15' To 20', Add	48.60	
For Elevated Installation >20' To 25', Add	60.75	
For Elevated Installation >25' To 30', Add	85.05	
For Elevated Installation >30' To 35', Add	97.20	
For Elevated Installation >35' To 40', Add	121.50	
For Elevated Installation >40', Add	133.65	
For Work In Restricted Working Space, Add	72.90	
26 05 33 13-0916 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow 1,449.76		198.10
For Elevated Installation >10' To 15', Add	39.62	
For Elevated Installation >15' To 20', Add	79.24	
For Elevated Installation >20' To 25', Add	99.05	
For Elevated Installation >25' To 30', Add	138.67	
For Elevated Installation >30' To 35', Add	158.48	
For Elevated Installation >35' To 40', Add	198.10	
For Elevated Installation >40', Add	217.91	
For Work In Restricted Working Space, Add	118.86	
26 05 33 13-0917 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow 2,000.86		297.59
For Elevated Installation >10' To 15', Add	59.52	
For Elevated Installation >15' To 20', Add	119.04	
For Elevated Installation >20' To 25', Add	148.80	
For Elevated Installation >25' To 30', Add	208.31	
For Elevated Installation >30' To 35', Add	238.07	
For Elevated Installation >35' To 40', Add	297.59	
For Elevated Installation >40', Add	327.35	
For Work In Restricted Working Space, Add	178.55	
26 05 33 13-0918 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbows (26 05 33 13-0826)		
26 05 33 13-0919 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow 286.11		33.46
For Elevated Installation >10' To 15', Add	6.69	
For Elevated Installation >15' To 20', Add	13.38	
For Elevated Installation >20' To 25', Add	16.73	
For Elevated Installation >25' To 30', Add	23.42	
For Elevated Installation >30' To 35', Add	26.77	
For Elevated Installation >35' To 40', Add	33.46	
For Elevated Installation >40', Add	36.81	
For Work In Restricted Working Space, Add	20.08	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0920	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow..... For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	302.07 7.75 15.50 19.37 27.12 30.99 38.74 42.61 23.24	38.74
26 05 33 13-0921	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow..... For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	355.55 8.80 17.61 22.01 30.81 35.22 44.02 48.42 26.41	44.02
26 05 33 13-0922	EA	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow..... For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	443.85 9.69 19.37 24.21 33.90 38.74 48.43 53.27 29.06	48.42
26 05 33 13-0923	EA	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow..... For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	616.16 12.15 24.30 30.38 42.53 48.60 60.75 66.83 36.45	60.75
26 05 33 13-0924	EA	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow..... For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	784.37 16.55 33.10 41.38 57.93 66.21 82.76 91.04 49.66	82.76
26 05 33 13-0925	EA	3-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow..... For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	953.22 18.67 37.33 46.67 65.33 74.66 93.33 102.66 56.00	93.32
26 05 33 13-0926	EA	4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow..... For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	1,125.74 24.30 48.60 60.75 85.05 97.20 121.50 133.65 72.90	121.50
26 05 33 13-0927	EA	5"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow..... For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	1,680.00 39.62 79.24 99.05 138.67 158.48 198.10 217.91 118.86	198.10
26 05 33 13-0928	EA	6"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow..... For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	2,106.54 59.52 119.04 148.80 208.31 238.07 297.59 327.35 178.55	297.59
26 05 33 13-0929			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbows (26 05 33 13-0926)		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0930 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	295.49	33.46
For Elevated Installation >10' To 15', Add	6.69	
For Elevated Installation >15' To 20', Add	13.38	
For Elevated Installation >20' To 25', Add	16.73	
For Elevated Installation >25' To 30', Add	23.42	
For Elevated Installation >30' To 35', Add	26.77	
For Elevated Installation >35' To 40', Add	33.46	
For Elevated Installation >40', Add	36.81	
For Work In Restricted Working Space, Add	20.08	
26 05 33 13-0931 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	347.69	38.74
For Elevated Installation >10' To 15', Add	7.75	
For Elevated Installation >15' To 20', Add	15.50	
For Elevated Installation >20' To 25', Add	19.37	
For Elevated Installation >25' To 30', Add	27.12	
For Elevated Installation >30' To 35', Add	30.99	
For Elevated Installation >35' To 40', Add	38.74	
For Elevated Installation >40', Add	42.61	
For Work In Restricted Working Space, Add	23.24	
26 05 33 13-0932 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	393.69	44.02
For Elevated Installation >10' To 15', Add	8.80	
For Elevated Installation >15' To 20', Add	17.61	
For Elevated Installation >20' To 25', Add	22.01	
For Elevated Installation >25' To 30', Add	30.81	
For Elevated Installation >30' To 35', Add	35.22	
For Elevated Installation >35' To 40', Add	44.02	
For Elevated Installation >40', Add	48.42	
For Work In Restricted Working Space, Add	26.41	
26 05 33 13-0933 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	461.63	48.42
For Elevated Installation >10' To 15', Add	9.69	
For Elevated Installation >15' To 20', Add	19.37	
For Elevated Installation >20' To 25', Add	24.21	
For Elevated Installation >25' To 30', Add	33.90	
For Elevated Installation >30' To 35', Add	38.74	
For Elevated Installation >35' To 40', Add	48.43	
For Elevated Installation >40', Add	53.27	
For Work In Restricted Working Space, Add	29.06	
26 05 33 13-0934 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	637.05	60.75
For Elevated Installation >10' To 15', Add	12.15	
For Elevated Installation >15' To 20', Add	24.30	
For Elevated Installation >20' To 25', Add	30.38	
For Elevated Installation >25' To 30', Add	42.53	
For Elevated Installation >30' To 35', Add	48.60	
For Elevated Installation >35' To 40', Add	60.75	
For Elevated Installation >40', Add	66.83	
For Work In Restricted Working Space, Add	36.45	
26 05 33 13-0935 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	816.41	82.76
For Elevated Installation >10' To 15', Add	16.55	
For Elevated Installation >15' To 20', Add	33.10	
For Elevated Installation >20' To 25', Add	41.38	
For Elevated Installation >25' To 30', Add	57.93	
For Elevated Installation >30' To 35', Add	66.21	
For Elevated Installation >35' To 40', Add	82.76	
For Elevated Installation >40', Add	91.04	
For Work In Restricted Working Space, Add	49.66	
26 05 33 13-0936 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	1,038.62	93.32
For Elevated Installation >10' To 15', Add	18.67	
For Elevated Installation >15' To 20', Add	37.33	
For Elevated Installation >20' To 25', Add	46.67	
For Elevated Installation >25' To 30', Add	65.33	
For Elevated Installation >30' To 35', Add	74.66	
For Elevated Installation >35' To 40', Add	93.33	
For Elevated Installation >40', Add	102.66	
For Work In Restricted Working Space, Add	56.00	
26 05 33 13-0937 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	1,170.18	121.50
For Elevated Installation >10' To 15', Add	24.30	
For Elevated Installation >15' To 20', Add	48.60	
For Elevated Installation >20' To 25', Add	60.75	
For Elevated Installation >25' To 30', Add	85.05	
For Elevated Installation >30' To 35', Add	97.20	
For Elevated Installation >35' To 40', Add	121.50	
For Elevated Installation >40', Add	133.65	
For Work In Restricted Working Space, Add	72.90	
26 05 33 13-0938 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	1,741.86	198.10
For Elevated Installation >10' To 15', Add	39.62	
For Elevated Installation >15' To 20', Add	79.24	
For Elevated Installation >20' To 25', Add	99.05	
For Elevated Installation >25' To 30', Add	138.67	
For Elevated Installation >30' To 35', Add	158.48	
For Elevated Installation >35' To 40', Add	198.10	
For Elevated Installation >40', Add	217.91	
For Work In Restricted Working Space, Add	118.86	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0939	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	2,160.24 59.52 119.04 148.80 208.31 238.07 297.59 327.35 178.55	297.59
26 05 33 13-0940		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fittings (26 05 33 13-0826)		
26 05 33 13-0941	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	114.27 4.40 8.80 11.01 15.41 17.61 22.01 24.21 13.21 13.21	22.02
26 05 33 13-0942	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	140.95 5.81 11.62 14.53 20.34 23.24 29.06 31.96 17.43 17.43	29.05
26 05 33 13-0943	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	185.22 6.69 13.38 16.73 23.42 26.77 33.46 36.81 20.08 20.08	33.46
26 05 33 13-0944	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	295.92 7.75 15.50 19.37 27.12 30.99 38.74 42.61 23.24 23.24	38.74
26 05 33 13-0945	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	327.37 8.80 17.61 22.01 30.81 35.22 44.02 48.42 26.41 26.41	44.02
26 05 33 13-0946	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	409.97 9.68 19.37 24.21 33.89 38.74 48.42 53.26 29.05 29.05	48.42
26 05 33 13-0947	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,080.68 12.15 24.30 30.37 42.52 48.60 60.75 66.82 36.45 36.45	60.75

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0948 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting 1,295.08		82.76
For Elevated Installation >10' To 15', Add	16.55	
For Elevated Installation >15' To 20', Add	33.11	
For Elevated Installation >20' To 25', Add	41.38	
For Elevated Installation >25' To 30', Add	57.94	
For Elevated Installation >30' To 35', Add	66.21	
For Elevated Installation >35' To 40', Add	82.77	
For Elevated Installation >40', Add	91.04	
For Work In Restricted Working Space, Add	49.66	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.66	
26 05 33 13-0949 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting 1,726.65		121.50
For Elevated Installation >10' To 15', Add	24.30	
For Elevated Installation >15' To 20', Add	48.60	
For Elevated Installation >20' To 25', Add	60.75	
For Elevated Installation >25' To 30', Add	85.04	
For Elevated Installation >30' To 35', Add	97.19	
For Elevated Installation >35' To 40', Add	121.49	
For Elevated Installation >40', Add	133.64	
For Work In Restricted Working Space, Add	72.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	72.89	
26 05 33 13-0950 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fittings (26 05 33 13-0826)		
26 05 33 13-0951 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting 110.00		22.02
For Elevated Installation >10' To 15', Add	4.40	
For Elevated Installation >15' To 20', Add	8.80	
For Elevated Installation >20' To 25', Add	11.01	
For Elevated Installation >25' To 30', Add	15.41	
For Elevated Installation >30' To 35', Add	17.61	
For Elevated Installation >35' To 40', Add	22.01	
For Elevated Installation >40', Add	24.21	
For Work In Restricted Working Space, Add	13.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.21	
26 05 33 13-0952 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting 136.13		29.05
For Elevated Installation >10' To 15', Add	5.81	
For Elevated Installation >15' To 20', Add	11.62	
For Elevated Installation >20' To 25', Add	14.53	
For Elevated Installation >25' To 30', Add	20.34	
For Elevated Installation >30' To 35', Add	23.24	
For Elevated Installation >35' To 40', Add	29.06	
For Elevated Installation >40', Add	31.96	
For Work In Restricted Working Space, Add	17.43	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.43	
26 05 33 13-0953 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting 185.22		33.46
For Elevated Installation >10' To 15', Add	6.69	
For Elevated Installation >15' To 20', Add	13.38	
For Elevated Installation >20' To 25', Add	16.73	
For Elevated Installation >25' To 30', Add	23.42	
For Elevated Installation >30' To 35', Add	26.77	
For Elevated Installation >35' To 40', Add	33.46	
For Elevated Installation >40', Add	36.81	
For Work In Restricted Working Space, Add	20.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.08	
26 05 33 13-0954 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting 293.44		38.74
For Elevated Installation >10' To 15', Add	7.75	
For Elevated Installation >15' To 20', Add	15.50	
For Elevated Installation >20' To 25', Add	19.37	
For Elevated Installation >25' To 30', Add	27.12	
For Elevated Installation >30' To 35', Add	30.99	
For Elevated Installation >35' To 40', Add	38.74	
For Elevated Installation >40', Add	42.61	
For Work In Restricted Working Space, Add	23.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.24	
26 05 33 13-0955 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting 317.36		44.02
For Elevated Installation >10' To 15', Add	8.80	
For Elevated Installation >15' To 20', Add	17.61	
For Elevated Installation >20' To 25', Add	22.01	
For Elevated Installation >25' To 30', Add	30.81	
For Elevated Installation >30' To 35', Add	35.22	
For Elevated Installation >35' To 40', Add	44.02	
For Elevated Installation >40', Add	48.42	
For Work In Restricted Working Space, Add	26.41	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.41	
26 05 33 13-0956 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting 410.09		48.42
For Elevated Installation >10' To 15', Add	9.68	
For Elevated Installation >15' To 20', Add	19.37	
For Elevated Installation >20' To 25', Add	24.21	
For Elevated Installation >25' To 30', Add	33.89	
For Elevated Installation >30' To 35', Add	38.74	
For Elevated Installation >35' To 40', Add	48.42	
For Elevated Installation >40', Add	53.26	
For Work In Restricted Working Space, Add	29.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.05	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0957	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	1,037.96	60.75
			For Elevated Installation >10' To 15', Add	12.15	
			For Elevated Installation >15' To 20', Add	24.30	
			For Elevated Installation >20' To 25', Add	30.37	
			For Elevated Installation >25' To 30', Add	42.52	
			For Elevated Installation >30' To 35', Add	48.60	
			For Elevated Installation >35' To 40', Add	60.75	
			For Elevated Installation >40', Add	66.82	
			For Work In Restricted Working Space, Add	36.45	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.45	
26 05 33 13-0958	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	1,263.92	82.76
			For Elevated Installation >10' To 15', Add	16.55	
			For Elevated Installation >15' To 20', Add	33.11	
			For Elevated Installation >20' To 25', Add	41.38	
			For Elevated Installation >25' To 30', Add	57.94	
			For Elevated Installation >30' To 35', Add	66.21	
			For Elevated Installation >35' To 40', Add	82.77	
			For Elevated Installation >40', Add	91.04	
			For Work In Restricted Working Space, Add	49.66	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.66	
26 05 33 13-0959	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	1,726.58	121.50
			For Elevated Installation >10' To 15', Add	24.30	
			For Elevated Installation >15' To 20', Add	48.60	
			For Elevated Installation >20' To 25', Add	60.75	
			For Elevated Installation >25' To 30', Add	85.04	
			For Elevated Installation >30' To 35', Add	97.19	
			For Elevated Installation >35' To 40', Add	121.49	
			For Elevated Installation >40', Add	133.64	
			For Work In Restricted Working Space, Add	72.89	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	72.89	
26 05 33 13-0960			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fittings (26 05 33 13-0826)		
26 05 33 13-0961	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting	100.54	22.02
			For Elevated Installation >10' To 15', Add	4.40	
			For Elevated Installation >15' To 20', Add	8.80	
			For Elevated Installation >20' To 25', Add	11.01	
			For Elevated Installation >25' To 30', Add	15.41	
			For Elevated Installation >30' To 35', Add	17.61	
			For Elevated Installation >35' To 40', Add	22.01	
			For Elevated Installation >40', Add	24.21	
			For Work In Restricted Working Space, Add	13.21	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.21	
26 05 33 13-0962	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting	121.77	29.05
			For Elevated Installation >10' To 15', Add	5.81	
			For Elevated Installation >15' To 20', Add	11.62	
			For Elevated Installation >20' To 25', Add	14.53	
			For Elevated Installation >25' To 30', Add	20.34	
			For Elevated Installation >30' To 35', Add	23.24	
			For Elevated Installation >35' To 40', Add	29.06	
			For Elevated Installation >40', Add	31.96	
			For Work In Restricted Working Space, Add	17.43	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.43	
26 05 33 13-0963	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting	143.27	33.46
			For Elevated Installation >10' To 15', Add	6.69	
			For Elevated Installation >15' To 20', Add	13.38	
			For Elevated Installation >20' To 25', Add	16.73	
			For Elevated Installation >25' To 30', Add	23.42	
			For Elevated Installation >30' To 35', Add	26.77	
			For Elevated Installation >35' To 40', Add	33.46	
			For Elevated Installation >40', Add	36.81	
			For Work In Restricted Working Space, Add	20.08	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.08	
26 05 33 13-0964	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting	199.04	38.74
			For Elevated Installation >10' To 15', Add	7.75	
			For Elevated Installation >15' To 20', Add	15.50	
			For Elevated Installation >20' To 25', Add	19.37	
			For Elevated Installation >25' To 30', Add	27.12	
			For Elevated Installation >30' To 35', Add	30.99	
			For Elevated Installation >35' To 40', Add	38.74	
			For Elevated Installation >40', Add	42.61	
			For Work In Restricted Working Space, Add	23.24	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.24	
26 05 33 13-0965	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting	231.87	44.02
			For Elevated Installation >10' To 15', Add	8.80	
			For Elevated Installation >15' To 20', Add	17.61	
			For Elevated Installation >20' To 25', Add	22.01	
			For Elevated Installation >25' To 30', Add	30.81	
			For Elevated Installation >30' To 35', Add	35.22	
			For Elevated Installation >35' To 40', Add	44.02	
			For Elevated Installation >40', Add	48.42	
			For Work In Restricted Working Space, Add	26.41	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.41	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0966 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting 348.31		48.42
For Elevated Installation >10' To 15', Add	9.68	
For Elevated Installation >15' To 20', Add	19.37	
For Elevated Installation >20' To 25', Add	24.21	
For Elevated Installation >25' To 30', Add	33.89	
For Elevated Installation >30' To 35', Add	38.74	
For Elevated Installation >35' To 40', Add	48.42	
For Elevated Installation >40', Add	53.26	
For Work In Restricted Working Space, Add	29.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.05	
26 05 33 13-0967 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting 918.98		60.75
For Elevated Installation >10' To 15', Add	12.15	
For Elevated Installation >15' To 20', Add	24.30	
For Elevated Installation >20' To 25', Add	30.37	
For Elevated Installation >25' To 30', Add	42.52	
For Elevated Installation >30' To 35', Add	48.60	
For Elevated Installation >35' To 40', Add	60.75	
For Elevated Installation >40', Add	66.82	
For Work In Restricted Working Space, Add	36.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.45	
26 05 33 13-0968 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting 1,041.69		82.76
For Elevated Installation >10' To 15', Add	16.55	
For Elevated Installation >15' To 20', Add	33.11	
For Elevated Installation >20' To 25', Add	41.38	
For Elevated Installation >25' To 30', Add	57.94	
For Elevated Installation >30' To 35', Add	66.21	
For Elevated Installation >35' To 40', Add	82.77	
For Elevated Installation >40', Add	91.04	
For Work In Restricted Working Space, Add	49.66	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.66	
26 05 33 13-0969 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting 1,338.28		121.50
For Elevated Installation >10' To 15', Add	24.30	
For Elevated Installation >15' To 20', Add	48.60	
For Elevated Installation >20' To 25', Add	60.75	
For Elevated Installation >25' To 30', Add	85.04	
For Elevated Installation >30' To 35', Add	97.19	
For Elevated Installation >35' To 40', Add	121.49	
For Elevated Installation >40', Add	133.64	
For Work In Restricted Working Space, Add	72.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	72.89	
26 05 33 13-0970 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fittings (26 05 33 13-0826)		
26 05 33 13-0971 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting 163.80		22.02
For Elevated Installation >10' To 15', Add	4.40	
For Elevated Installation >15' To 20', Add	8.80	
For Elevated Installation >20' To 25', Add	11.01	
For Elevated Installation >25' To 30', Add	15.41	
For Elevated Installation >30' To 35', Add	17.61	
For Elevated Installation >35' To 40', Add	22.01	
For Elevated Installation >40', Add	24.21	
For Work In Restricted Working Space, Add	13.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.21	
26 05 33 13-0972 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting 244.78		29.05
For Elevated Installation >10' To 15', Add	5.81	
For Elevated Installation >15' To 20', Add	11.62	
For Elevated Installation >20' To 25', Add	14.53	
For Elevated Installation >25' To 30', Add	20.34	
For Elevated Installation >30' To 35', Add	23.24	
For Elevated Installation >35' To 40', Add	29.06	
For Elevated Installation >40', Add	31.96	
For Work In Restricted Working Space, Add	17.43	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.43	
26 05 33 13-0973 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting 306.18		33.46
For Elevated Installation >10' To 15', Add	6.69	
For Elevated Installation >15' To 20', Add	13.38	
For Elevated Installation >20' To 25', Add	16.73	
For Elevated Installation >25' To 30', Add	23.42	
For Elevated Installation >30' To 35', Add	26.77	
For Elevated Installation >35' To 40', Add	33.46	
For Elevated Installation >40', Add	36.81	
For Work In Restricted Working Space, Add	20.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.08	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0974	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	353.48	38.74
			For Elevated Installation >10' To 15', Add	7.75	
			For Elevated Installation >15' To 20', Add	15.50	
			For Elevated Installation >20' To 25', Add	19.37	
			For Elevated Installation >25' To 30', Add	27.12	
			For Elevated Installation >30' To 35', Add	30.99	
			For Elevated Installation >35' To 40', Add	38.74	
			For Elevated Installation >40', Add	42.61	
			For Work In Restricted Working Space, Add	23.24	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.24	
26 05 33 13-0975	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	401.46	44.02
			For Elevated Installation >10' To 15', Add	8.80	
			For Elevated Installation >15' To 20', Add	17.61	
			For Elevated Installation >20' To 25', Add	22.01	
			For Elevated Installation >25' To 30', Add	30.81	
			For Elevated Installation >30' To 35', Add	35.22	
			For Elevated Installation >35' To 40', Add	44.02	
			For Elevated Installation >40', Add	48.42	
			For Work In Restricted Working Space, Add	26.41	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.41	
26 05 33 13-0976	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	523.50	48.42
			For Elevated Installation >10' To 15', Add	9.68	
			For Elevated Installation >15' To 20', Add	19.37	
			For Elevated Installation >20' To 25', Add	24.21	
			For Elevated Installation >25' To 30', Add	33.89	
			For Elevated Installation >30' To 35', Add	38.74	
			For Elevated Installation >35' To 40', Add	48.42	
			For Elevated Installation >40', Add	53.26	
			For Work In Restricted Working Space, Add	29.05	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.05	
26 05 33 13-0977	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	1,600.74	60.75
			For Elevated Installation >10' To 15', Add	12.15	
			For Elevated Installation >15' To 20', Add	24.30	
			For Elevated Installation >20' To 25', Add	30.37	
			For Elevated Installation >25' To 30', Add	42.52	
			For Elevated Installation >30' To 35', Add	48.60	
			For Elevated Installation >35' To 40', Add	60.75	
			For Elevated Installation >40', Add	66.82	
			For Work In Restricted Working Space, Add	36.45	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.45	
26 05 33 13-0978	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	1,875.10	82.76
			For Elevated Installation >10' To 15', Add	16.55	
			For Elevated Installation >15' To 20', Add	33.11	
			For Elevated Installation >20' To 25', Add	41.38	
			For Elevated Installation >25' To 30', Add	57.94	
			For Elevated Installation >30' To 35', Add	66.21	
			For Elevated Installation >35' To 40', Add	82.77	
			For Elevated Installation >40', Add	91.04	
			For Work In Restricted Working Space, Add	49.66	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.66	
26 05 33 13-0979	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	2,315.49	121.50
			For Elevated Installation >10' To 15', Add	24.30	
			For Elevated Installation >15' To 20', Add	48.60	
			For Elevated Installation >20' To 25', Add	60.75	
			For Elevated Installation >25' To 30', Add	85.04	
			For Elevated Installation >30' To 35', Add	97.19	
			For Elevated Installation >35' To 40', Add	121.49	
			For Elevated Installation >40', Add	133.64	
			For Work In Restricted Working Space, Add	72.89	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	72.89	
26 05 33 13-0980			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fittings (26 05 33 13-0826)		
26 05 33 13-0981	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	180.59	22.02
			For Elevated Installation >10' To 15', Add	4.40	
			For Elevated Installation >15' To 20', Add	8.80	
			For Elevated Installation >20' To 25', Add	11.01	
			For Elevated Installation >25' To 30', Add	15.41	
			For Elevated Installation >30' To 35', Add	17.61	
			For Elevated Installation >35' To 40', Add	22.01	
			For Elevated Installation >40', Add	24.21	
			For Work In Restricted Working Space, Add	13.21	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.21	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 33 13-0982	EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded			
	Sealtight Fitting.....	260.63		29.05
	For Elevated Installation >10' To 15', Add	5.81		
	For Elevated Installation >15' To 20', Add	11.62		
	For Elevated Installation >20' To 25', Add	14.53		
	For Elevated Installation >25' To 30', Add	20.34		
	For Elevated Installation >30' To 35', Add	23.24		
	For Elevated Installation >35' To 40', Add	29.06		
	For Elevated Installation >40', Add	31.96		
	For Work In Restricted Working Space, Add	17.43		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.43		
26 05 33 13-0983	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded			
	Sealtight Fitting.....	309.20		33.46
	For Elevated Installation >10' To 15', Add	6.69		
	For Elevated Installation >15' To 20', Add	13.38		
	For Elevated Installation >20' To 25', Add	16.73		
	For Elevated Installation >25' To 30', Add	23.42		
	For Elevated Installation >30' To 35', Add	26.77		
	For Elevated Installation >35' To 40', Add	33.46		
	For Elevated Installation >40', Add	36.81		
	For Work In Restricted Working Space, Add	20.08		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.08		
26 05 33 13-0984	EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded			
	Sealtight Fitting.....	358.45		38.74
	For Elevated Installation >10' To 15', Add	7.75		
	For Elevated Installation >15' To 20', Add	15.50		
	For Elevated Installation >20' To 25', Add	19.37		
	For Elevated Installation >25' To 30', Add	27.12		
	For Elevated Installation >30' To 35', Add	30.99		
	For Elevated Installation >35' To 40', Add	38.74		
	For Elevated Installation >40', Add	42.61		
	For Work In Restricted Working Space, Add	23.24		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.24		
26 05 33 13-0985	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded			
	Sealtight Fitting.....	415.09		44.02
	For Elevated Installation >10' To 15', Add	8.80		
	For Elevated Installation >15' To 20', Add	17.61		
	For Elevated Installation >20' To 25', Add	22.01		
	For Elevated Installation >25' To 30', Add	30.81		
	For Elevated Installation >30' To 35', Add	35.22		
	For Elevated Installation >35' To 40', Add	44.02		
	For Elevated Installation >40', Add	48.42		
	For Work In Restricted Working Space, Add	26.41		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.41		
26 05 33 13-0986	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded			
	Sealtight Fitting.....	643.29		48.42
	For Elevated Installation >10' To 15', Add	9.68		
	For Elevated Installation >15' To 20', Add	19.37		
	For Elevated Installation >20' To 25', Add	24.21		
	For Elevated Installation >25' To 30', Add	33.89		
	For Elevated Installation >30' To 35', Add	38.74		
	For Elevated Installation >35' To 40', Add	48.42		
	For Elevated Installation >40', Add	53.26		
	For Work In Restricted Working Space, Add	29.05		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.05		
26 05 33 13-0987	EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded			
	Sealtight Fitting.....	1,781.51		60.75
	For Elevated Installation >10' To 15', Add	12.15		
	For Elevated Installation >15' To 20', Add	24.30		
	For Elevated Installation >20' To 25', Add	30.37		
	For Elevated Installation >25' To 30', Add	42.52		
	For Elevated Installation >30' To 35', Add	48.60		
	For Elevated Installation >35' To 40', Add	60.75		
	For Elevated Installation >40', Add	66.82		
	For Work In Restricted Working Space, Add	36.45		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.45		
26 05 33 13-0988	EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded			
	Sealtight Fitting.....	2,506.18		82.76
	For Elevated Installation >10' To 15', Add	16.55		
	For Elevated Installation >15' To 20', Add	33.11		
	For Elevated Installation >20' To 25', Add	41.38		
	For Elevated Installation >25' To 30', Add	57.94		
	For Elevated Installation >30' To 35', Add	66.21		
	For Elevated Installation >35' To 40', Add	82.77		
	For Elevated Installation >40', Add	91.04		
	For Work In Restricted Working Space, Add	49.66		
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.66		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0989	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	2,634.96	121.50
			For Elevated Installation >10' To 15', Add	24.30	
			For Elevated Installation >15' To 20', Add	48.60	
			For Elevated Installation >20' To 25', Add	60.75	
			For Elevated Installation >25' To 30', Add	85.04	
			For Elevated Installation >30' To 35', Add	97.19	
			For Elevated Installation >35' To 40', Add	121.49	
			For Elevated Installation >40', Add	133.64	
			For Work In Restricted Working Space, Add	72.89	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	72.89	
26 05 33 13-0990			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fittings (26 05 33 13-0826)		
26 05 33 13-0991	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	145.29	22.02
			For Elevated Installation >10' To 15', Add	4.40	
			For Elevated Installation >15' To 20', Add	8.80	
			For Elevated Installation >20' To 25', Add	11.01	
			For Elevated Installation >25' To 30', Add	15.41	
			For Elevated Installation >30' To 35', Add	17.61	
			For Elevated Installation >35' To 40', Add	22.01	
			For Elevated Installation >40', Add	24.21	
			For Work In Restricted Working Space, Add	13.21	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.21	
26 05 33 13-0992	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	183.99	29.05
			For Elevated Installation >10' To 15', Add	5.81	
			For Elevated Installation >15' To 20', Add	11.62	
			For Elevated Installation >20' To 25', Add	14.53	
			For Elevated Installation >25' To 30', Add	20.34	
			For Elevated Installation >30' To 35', Add	23.24	
			For Elevated Installation >35' To 40', Add	29.06	
			For Elevated Installation >40', Add	31.96	
			For Work In Restricted Working Space, Add	17.43	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.43	
26 05 33 13-0993	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	219.74	33.46
			For Elevated Installation >10' To 15', Add	6.69	
			For Elevated Installation >15' To 20', Add	13.38	
			For Elevated Installation >20' To 25', Add	16.73	
			For Elevated Installation >25' To 30', Add	23.42	
			For Elevated Installation >30' To 35', Add	26.77	
			For Elevated Installation >35' To 40', Add	33.46	
			For Elevated Installation >40', Add	36.81	
			For Work In Restricted Working Space, Add	20.08	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.08	
26 05 33 13-0994	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	244.35	38.74
			For Elevated Installation >10' To 15', Add	7.75	
			For Elevated Installation >15' To 20', Add	15.50	
			For Elevated Installation >20' To 25', Add	19.37	
			For Elevated Installation >25' To 30', Add	27.12	
			For Elevated Installation >30' To 35', Add	30.99	
			For Elevated Installation >35' To 40', Add	38.74	
			For Elevated Installation >40', Add	42.61	
			For Work In Restricted Working Space, Add	23.24	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.24	
26 05 33 13-0995	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	324.86	44.02
			For Elevated Installation >10' To 15', Add	8.80	
			For Elevated Installation >15' To 20', Add	17.61	
			For Elevated Installation >20' To 25', Add	22.01	
			For Elevated Installation >25' To 30', Add	30.81	
			For Elevated Installation >30' To 35', Add	35.22	
			For Elevated Installation >35' To 40', Add	44.02	
			For Elevated Installation >40', Add	48.42	
			For Work In Restricted Working Space, Add	26.41	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.41	
26 05 33 13-0996	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	452.09	48.42
			For Elevated Installation >10' To 15', Add	9.68	
			For Elevated Installation >15' To 20', Add	19.37	
			For Elevated Installation >20' To 25', Add	24.21	
			For Elevated Installation >25' To 30', Add	33.89	
			For Elevated Installation >30' To 35', Add	38.74	
			For Elevated Installation >35' To 40', Add	48.42	
			For Elevated Installation >40', Add	53.26	
			For Work In Restricted Working Space, Add	29.05	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.05	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0997	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	1,451.03	60.75
			For Elevated Installation >10' To 15', Add	12.15	
			For Elevated Installation >15' To 20', Add	24.30	
			For Elevated Installation >20' To 25', Add	30.37	
			For Elevated Installation >25' To 30', Add	42.52	
			For Elevated Installation >30' To 35', Add	48.60	
			For Elevated Installation >35' To 40', Add	60.75	
			For Elevated Installation >40', Add	66.82	
			For Work In Restricted Working Space, Add	36.45	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.45	
26 05 33 13-0998	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	1,641.00	82.76
			For Elevated Installation >10' To 15', Add	16.55	
			For Elevated Installation >15' To 20', Add	33.11	
			For Elevated Installation >20' To 25', Add	41.38	
			For Elevated Installation >25' To 30', Add	57.94	
			For Elevated Installation >30' To 35', Add	66.21	
			For Elevated Installation >35' To 40', Add	82.77	
			For Elevated Installation >40', Add	91.04	
			For Work In Restricted Working Space, Add	49.66	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.66	
26 05 33 13-0999	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	1,962.03	121.50
			For Elevated Installation >10' To 15', Add	24.30	
			For Elevated Installation >15' To 20', Add	48.60	
			For Elevated Installation >20' To 25', Add	60.75	
			For Elevated Installation >25' To 30', Add	85.04	
			For Elevated Installation >30' To 35', Add	97.19	
			For Elevated Installation >35' To 40', Add	121.49	
			For Elevated Installation >40', Add	133.64	
			For Work In Restricted Working Space, Add	72.89	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	72.89	
26 05 33 13-1000			Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover (26 05 33 13-0826)		
			Note: Suitable for use in hazardous locations. Class I, Div 2.		
26 05 33 13-1001	EA		1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	143.03	42.26
			For Elevated Installation >10' To 15', Add	8.45	
			For Elevated Installation >15' To 20', Add	16.91	
			For Elevated Installation >20' To 25', Add	21.13	
			For Elevated Installation >25' To 30', Add	29.59	
			For Elevated Installation >30' To 35', Add	33.81	
			For Elevated Installation >35' To 40', Add	42.27	
			For Elevated Installation >40', Add	46.49	
			For Work In Restricted Working Space, Add	25.36	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.36	
26 05 33 13-1002	EA		3/4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	161.71	48.42
			For Elevated Installation >10' To 15', Add	9.68	
			For Elevated Installation >15' To 20', Add	19.37	
			For Elevated Installation >20' To 25', Add	24.21	
			For Elevated Installation >25' To 30', Add	33.89	
			For Elevated Installation >30' To 35', Add	38.74	
			For Elevated Installation >35' To 40', Add	48.42	
			For Elevated Installation >40', Add	53.26	
			For Work In Restricted Working Space, Add	29.05	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.05	
26 05 33 13-1003	EA		1" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	197.74	55.47
			For Elevated Installation >10' To 15', Add	11.09	
			For Elevated Installation >15' To 20', Add	22.19	
			For Elevated Installation >20' To 25', Add	27.74	
			For Elevated Installation >25' To 30', Add	38.83	
			For Elevated Installation >30' To 35', Add	44.38	
			For Elevated Installation >35' To 40', Add	55.47	
			For Elevated Installation >40', Add	61.02	
			For Work In Restricted Working Space, Add	33.28	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.28	
26 05 33 13-1004	EA		1-1/4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	254.54	64.27
			For Elevated Installation >10' To 15', Add	12.85	
			For Elevated Installation >15' To 20', Add	25.71	
			For Elevated Installation >20' To 25', Add	32.14	
			For Elevated Installation >25' To 30', Add	44.99	
			For Elevated Installation >30' To 35', Add	51.42	
			For Elevated Installation >35' To 40', Add	64.27	
			For Elevated Installation >40', Add	70.70	
			For Work In Restricted Working Space, Add	38.56	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.56	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1005	EA	1-1/2"	Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	294.73	70.44
			For Elevated Installation >10' To 15', Add	14.09	
			For Elevated Installation >15' To 20', Add	28.17	
			For Elevated Installation >20' To 25', Add	35.22	
			For Elevated Installation >25' To 30', Add	49.30	
			For Elevated Installation >30' To 35', Add	56.35	
			For Elevated Installation >35' To 40', Add	70.44	
			For Elevated Installation >40', Add	77.48	
			For Work In Restricted Working Space, Add	42.26	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.26	
26 05 33 13-1006	EA	2"	Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	395.89	84.53
			For Elevated Installation >10' To 15', Add	16.91	
			For Elevated Installation >15' To 20', Add	33.81	
			For Elevated Installation >20' To 25', Add	42.26	
			For Elevated Installation >25' To 30', Add	59.17	
			For Elevated Installation >30' To 35', Add	67.62	
			For Elevated Installation >35' To 40', Add	84.53	
			For Elevated Installation >40', Add	92.98	
			For Work In Restricted Working Space, Add	50.72	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.72	
26 05 33 13-1007	EA	2-1/2"	Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	654.01	118.86
			For Elevated Installation >10' To 15', Add	23.77	
			For Elevated Installation >15' To 20', Add	47.55	
			For Elevated Installation >20' To 25', Add	59.43	
			For Elevated Installation >25' To 30', Add	83.21	
			For Elevated Installation >30' To 35', Add	95.09	
			For Elevated Installation >35' To 40', Add	118.87	
			For Elevated Installation >40', Add	130.75	
			For Work In Restricted Working Space, Add	71.32	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.32	
26 05 33 13-1008	EA	3"	Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	840.63	158.48
			For Elevated Installation >10' To 15', Add	31.70	
			For Elevated Installation >15' To 20', Add	63.39	
			For Elevated Installation >20' To 25', Add	79.24	
			For Elevated Installation >25' To 30', Add	110.94	
			For Elevated Installation >30' To 35', Add	126.79	
			For Elevated Installation >35' To 40', Add	158.49	
			For Elevated Installation >40', Add	174.33	
			For Work In Restricted Working Space, Add	95.09	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	95.09	
26 05 33 13-1009	EA	3-1/2"	Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	1,157.02	198.10
			For Elevated Installation >10' To 15', Add	39.62	
			For Elevated Installation >15' To 20', Add	79.24	
			For Elevated Installation >20' To 25', Add	99.05	
			For Elevated Installation >25' To 30', Add	138.67	
			For Elevated Installation >30' To 35', Add	158.48	
			For Elevated Installation >35' To 40', Add	198.10	
			For Elevated Installation >40', Add	217.91	
			For Work In Restricted Working Space, Add	118.86	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	118.86	
26 05 33 13-1010	EA	4"	Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	1,335.32	241.24
			For Elevated Installation >10' To 15', Add	48.25	
			For Elevated Installation >15' To 20', Add	96.50	
			For Elevated Installation >20' To 25', Add	120.62	
			For Elevated Installation >25' To 30', Add	168.87	
			For Elevated Installation >30' To 35', Add	193.00	
			For Elevated Installation >35' To 40', Add	241.25	
			For Elevated Installation >40', Add	265.37	
			For Work In Restricted Working Space, Add	144.75	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	144.75	
26 05 33 13-1011			Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover (26 05 33 13-0826)		
			Note: Suitable for use in hazardous locations. Class I, Div 2.		
26 05 33 13-1012	EA	1/2"	Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	186.99	55.47
			For Elevated Installation >10' To 15', Add	11.09	
			For Elevated Installation >15' To 20', Add	22.19	
			For Elevated Installation >20' To 25', Add	27.73	
			For Elevated Installation >25' To 30', Add	38.83	
			For Elevated Installation >30' To 35', Add	44.37	
			For Elevated Installation >35' To 40', Add	55.47	
			For Elevated Installation >40', Add	61.01	
			For Work In Restricted Working Space, Add	33.28	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.28	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1013	EA	3/4" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	212.33	61.63
		For Elevated Installation >10' To 15', Add	12.33	
		For Elevated Installation >15' To 20', Add	24.65	
		For Elevated Installation >20' To 25', Add	30.82	
		For Elevated Installation >25' To 30', Add	43.14	
		For Elevated Installation >30' To 35', Add	49.30	
		For Elevated Installation >35' To 40', Add	61.63	
		For Elevated Installation >40', Add	67.79	
		For Work In Restricted Working Space, Add	36.98	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.98	
26 05 33 13-1014	EA	1" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	255.55	67.79
		For Elevated Installation >10' To 15', Add	13.56	
		For Elevated Installation >15' To 20', Add	27.12	
		For Elevated Installation >20' To 25', Add	33.90	
		For Elevated Installation >25' To 30', Add	47.45	
		For Elevated Installation >30' To 35', Add	54.23	
		For Elevated Installation >35' To 40', Add	67.79	
		For Elevated Installation >40', Add	74.57	
		For Work In Restricted Working Space, Add	40.67	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.67	
26 05 33 13-1015	EA	1-1/4" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	336.72	77.48
		For Elevated Installation >10' To 15', Add	15.50	
		For Elevated Installation >15' To 20', Add	30.99	
		For Elevated Installation >20' To 25', Add	38.74	
		For Elevated Installation >25' To 30', Add	54.23	
		For Elevated Installation >30' To 35', Add	61.98	
		For Elevated Installation >35' To 40', Add	77.48	
		For Elevated Installation >40', Add	85.22	
		For Work In Restricted Working Space, Add	46.49	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.49	
26 05 33 13-1016	EA	1-1/2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	394.37	84.53
		For Elevated Installation >10' To 15', Add	16.91	
		For Elevated Installation >15' To 20', Add	33.81	
		For Elevated Installation >20' To 25', Add	42.26	
		For Elevated Installation >25' To 30', Add	59.17	
		For Elevated Installation >30' To 35', Add	67.62	
		For Elevated Installation >35' To 40', Add	84.53	
		For Elevated Installation >40', Add	92.98	
		For Work In Restricted Working Space, Add	50.72	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.72	
26 05 33 13-1017	EA	2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	531.43	103.90
		For Elevated Installation >10' To 15', Add	20.78	
		For Elevated Installation >15' To 20', Add	41.56	
		For Elevated Installation >20' To 25', Add	51.95	
		For Elevated Installation >25' To 30', Add	72.72	
		For Elevated Installation >30' To 35', Add	83.11	
		For Elevated Installation >35' To 40', Add	103.89	
		For Elevated Installation >40', Add	114.28	
		For Work In Restricted Working Space, Add	62.33	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.33	
26 05 33 13-1018		Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover (26 05 33 13-0826)		
		Note: Suitable for use in hazardous locations. Class I, Div 2.		
26 05 33 13-1019	EA	1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	164.37	48.42
		For Elevated Installation >10' To 15', Add	9.69	
		For Elevated Installation >15' To 20', Add	19.37	
		For Elevated Installation >20' To 25', Add	24.21	
		For Elevated Installation >25' To 30', Add	33.90	
		For Elevated Installation >30' To 35', Add	38.74	
		For Elevated Installation >35' To 40', Add	48.43	
		For Elevated Installation >40', Add	53.27	
		For Work In Restricted Working Space, Add	29.06	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.06	
26 05 33 13-1020	EA	3/4" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	188.11	56.35
		For Elevated Installation >10' To 15', Add	11.27	
		For Elevated Installation >15' To 20', Add	22.54	
		For Elevated Installation >20' To 25', Add	28.18	
		For Elevated Installation >25' To 30', Add	39.45	
		For Elevated Installation >30' To 35', Add	45.08	
		For Elevated Installation >35' To 40', Add	56.35	
		For Elevated Installation >40', Add	61.99	
		For Work In Restricted Working Space, Add	33.81	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.81	
26 05 33 13-1021	EA	1" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover	224.29	61.63
		For Elevated Installation >10' To 15', Add	12.33	
		For Elevated Installation >15' To 20', Add	24.65	
		For Elevated Installation >20' To 25', Add	30.82	
		For Elevated Installation >25' To 30', Add	43.14	
		For Elevated Installation >30' To 35', Add	49.30	
		For Elevated Installation >35' To 40', Add	61.63	
		For Elevated Installation >40', Add	67.79	
		For Work In Restricted Working Space, Add	36.98	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.98	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1022	EA	1-1/4"	Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	283.10	70.44
			For Elevated Installation >10' To 15', Add	14.09	
			For Elevated Installation >15' To 20', Add	28.17	
			For Elevated Installation >20' To 25', Add	35.22	
			For Elevated Installation >25' To 30', Add	49.30	
			For Elevated Installation >30' To 35', Add	56.35	
			For Elevated Installation >35' To 40', Add	70.44	
			For Elevated Installation >40', Add	77.48	
			For Work In Restricted Working Space, Add	42.26	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.26	
26 05 33 13-1023	EA	1-1/2"	Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	332.58	77.48
			For Elevated Installation >10' To 15', Add	15.50	
			For Elevated Installation >15' To 20', Add	30.99	
			For Elevated Installation >20' To 25', Add	38.74	
			For Elevated Installation >25' To 30', Add	54.24	
			For Elevated Installation >30' To 35', Add	61.98	
			For Elevated Installation >35' To 40', Add	77.48	
			For Elevated Installation >40', Add	85.23	
			For Work In Restricted Working Space, Add	46.49	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.49	
26 05 33 13-1024	EA	2"	Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	439.30	90.69
			For Elevated Installation >10' To 15', Add	18.14	
			For Elevated Installation >15' To 20', Add	36.27	
			For Elevated Installation >20' To 25', Add	45.34	
			For Elevated Installation >25' To 30', Add	63.48	
			For Elevated Installation >30' To 35', Add	72.55	
			For Elevated Installation >35' To 40', Add	90.69	
			For Elevated Installation >40', Add	99.75	
			For Work In Restricted Working Space, Add	54.41	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	54.41	
26 05 33 13-1025	EA	2-1/2"	Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	699.84	132.06
			For Elevated Installation >10' To 15', Add	26.41	
			For Elevated Installation >15' To 20', Add	52.83	
			For Elevated Installation >20' To 25', Add	66.04	
			For Elevated Installation >25' To 30', Add	92.45	
			For Elevated Installation >30' To 35', Add	105.66	
			For Elevated Installation >35' To 40', Add	132.07	
			For Elevated Installation >40', Add	145.28	
			For Work In Restricted Working Space, Add	79.24	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	79.24	
26 05 33 13-1026	EA	3"	Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	924.77	171.69
			For Elevated Installation >10' To 15', Add	34.34	
			For Elevated Installation >15' To 20', Add	68.67	
			For Elevated Installation >20' To 25', Add	85.84	
			For Elevated Installation >25' To 30', Add	120.18	
			For Elevated Installation >30' To 35', Add	137.34	
			For Elevated Installation >35' To 40', Add	171.68	
			For Elevated Installation >40', Add	188.85	
			For Work In Restricted Working Space, Add	103.01	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	103.01	
26 05 33 13-1027	EA	3-1/2"	Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	1,258.29	211.31
			For Elevated Installation >10' To 15', Add	42.26	
			For Elevated Installation >15' To 20', Add	84.52	
			For Elevated Installation >20' To 25', Add	105.65	
			For Elevated Installation >25' To 30', Add	147.91	
			For Elevated Installation >30' To 35', Add	169.04	
			For Elevated Installation >35' To 40', Add	211.31	
			For Elevated Installation >40', Add	232.44	
			For Work In Restricted Working Space, Add	126.78	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	126.78	
26 05 33 13-1028	EA	4"	Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	1,415.51	254.45
			For Elevated Installation >10' To 15', Add	50.89	
			For Elevated Installation >15' To 20', Add	101.78	
			For Elevated Installation >20' To 25', Add	127.23	
			For Elevated Installation >25' To 30', Add	178.12	
			For Elevated Installation >30' To 35', Add	203.56	
			For Elevated Installation >35' To 40', Add	254.46	
			For Elevated Installation >40', Add	279.90	
			For Work In Restricted Working Space, Add	152.67	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	152.67	
26 05 33 13-1029			Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined (26 05 33 13-0826)		
26 05 33 13-1030	EA	1/2"	Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	31.31	5.28
			For Elevated Installation >10' To 15', Add	1.06	
			For Elevated Installation >15' To 20', Add	2.11	
			For Elevated Installation >20' To 25', Add	2.64	
			For Elevated Installation >25' To 30', Add	3.70	
			For Elevated Installation >30' To 35', Add	4.22	
			For Elevated Installation >35' To 40', Add	5.28	
			For Elevated Installation >40', Add	5.81	
			For Work In Restricted Working Space, Add	3.17	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1031 EA 3/4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	35.25	6.16
For Elevated Installation >10' To 15', Add	1.23	
For Elevated Installation >15' To 20', Add	2.47	
For Elevated Installation >20' To 25', Add	3.08	
For Elevated Installation >25' To 30', Add	4.32	
For Elevated Installation >30' To 35', Add	4.93	
For Elevated Installation >35' To 40', Add	6.17	
For Elevated Installation >40', Add	6.78	
For Work In Restricted Working Space, Add	3.70	
26 05 33 13-1032 EA 1" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	45.91	7.93
For Elevated Installation >10' To 15', Add	1.59	
For Elevated Installation >15' To 20', Add	3.17	
For Elevated Installation >20' To 25', Add	3.96	
For Elevated Installation >25' To 30', Add	5.55	
For Elevated Installation >30' To 35', Add	6.34	
For Elevated Installation >35' To 40', Add	7.93	
For Elevated Installation >40', Add	8.72	
For Work In Restricted Working Space, Add	4.76	
26 05 33 13-1033 EA 1-1/4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	58.79	9.68
For Elevated Installation >10' To 15', Add	1.94	
For Elevated Installation >15' To 20', Add	3.87	
For Elevated Installation >20' To 25', Add	4.84	
For Elevated Installation >25' To 30', Add	6.78	
For Elevated Installation >30' To 35', Add	7.75	
For Elevated Installation >35' To 40', Add	9.69	
For Elevated Installation >40', Add	10.65	
For Work In Restricted Working Space, Add	5.81	
26 05 33 13-1034 EA 1-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	66.12	11.44
For Elevated Installation >10' To 15', Add	2.29	
For Elevated Installation >15' To 20', Add	4.58	
For Elevated Installation >20' To 25', Add	5.72	
For Elevated Installation >25' To 30', Add	8.01	
For Elevated Installation >30' To 35', Add	9.16	
For Elevated Installation >35' To 40', Add	11.45	
For Elevated Installation >40', Add	12.59	
For Work In Restricted Working Space, Add	6.87	
26 05 33 13-1035 EA 2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	81.36	13.21
For Elevated Installation >10' To 15', Add	2.64	
For Elevated Installation >15' To 20', Add	5.28	
For Elevated Installation >20' To 25', Add	6.60	
For Elevated Installation >25' To 30', Add	9.24	
For Elevated Installation >30' To 35', Add	10.56	
For Elevated Installation >35' To 40', Add	13.21	
For Elevated Installation >40', Add	14.53	
For Work In Restricted Working Space, Add	7.92	
26 05 33 13-1036 EA 2-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	104.23	14.97
For Elevated Installation >10' To 15', Add	2.99	
For Elevated Installation >15' To 20', Add	5.99	
For Elevated Installation >20' To 25', Add	7.48	
For Elevated Installation >25' To 30', Add	10.48	
For Elevated Installation >30' To 35', Add	11.97	
For Elevated Installation >35' To 40', Add	14.97	
For Elevated Installation >40', Add	16.46	
For Work In Restricted Working Space, Add	8.98	
26 05 33 13-1037 EA 3" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	116.56	21.13
For Elevated Installation >10' To 15', Add	4.23	
For Elevated Installation >15' To 20', Add	8.45	
For Elevated Installation >20' To 25', Add	10.57	
For Elevated Installation >25' To 30', Add	14.79	
For Elevated Installation >30' To 35', Add	16.90	
For Elevated Installation >35' To 40', Add	21.13	
For Elevated Installation >40', Add	23.24	
For Work In Restricted Working Space, Add	12.68	
26 05 33 13-1038 EA 3-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	140.71	23.77
For Elevated Installation >10' To 15', Add	4.75	
For Elevated Installation >15' To 20', Add	9.51	
For Elevated Installation >20' To 25', Add	11.89	
For Elevated Installation >25' To 30', Add	16.64	
For Elevated Installation >30' To 35', Add	19.02	
For Elevated Installation >35' To 40', Add	23.77	
For Elevated Installation >40', Add	26.15	
For Work In Restricted Working Space, Add	14.26	
26 05 33 13-1039 EA 4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined	153.04	29.93
For Elevated Installation >10' To 15', Add	5.99	
For Elevated Installation >15' To 20', Add	11.97	
For Elevated Installation >20' To 25', Add	14.97	
For Elevated Installation >25' To 30', Add	20.95	
For Elevated Installation >30' To 35', Add	23.95	
For Elevated Installation >35' To 40', Add	29.94	
For Elevated Installation >40', Add	32.93	
For Work In Restricted Working Space, Add	17.96	

26 05 33 13-1040 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel
(RGS) EYS Sealing Conduit Bodies (26 05 33 13-0826)



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1041	EA	1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	158.76	42.26
			For Elevated Installation >10' To 15', Add	8.45	
			For Elevated Installation >15' To 20', Add	16.91	
			For Elevated Installation >20' To 25', Add	21.13	
			For Elevated Installation >25' To 30', Add	29.59	
			For Elevated Installation >30' To 35', Add	33.81	
			For Elevated Installation >35' To 40', Add	42.27	
			For Elevated Installation >40', Add	46.49	
			For Work In Restricted Working Space, Add	25.36	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.36	
26 05 33 13-1042	EA	3/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	176.68	48.42
			For Elevated Installation >10' To 15', Add	9.69	
			For Elevated Installation >15' To 20', Add	19.37	
			For Elevated Installation >20' To 25', Add	24.21	
			For Elevated Installation >25' To 30', Add	33.90	
			For Elevated Installation >30' To 35', Add	38.74	
			For Elevated Installation >35' To 40', Add	48.43	
			For Elevated Installation >40', Add	53.27	
			For Work In Restricted Working Space, Add	29.06	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.06	
26 05 33 13-1043	EA	1"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	205.77	55.47
			For Elevated Installation >10' To 15', Add	11.09	
			For Elevated Installation >15' To 20', Add	22.19	
			For Elevated Installation >20' To 25', Add	27.74	
			For Elevated Installation >25' To 30', Add	38.83	
			For Elevated Installation >30' To 35', Add	44.38	
			For Elevated Installation >35' To 40', Add	55.47	
			For Elevated Installation >40', Add	61.02	
			For Work In Restricted Working Space, Add	33.28	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.28	
26 05 33 13-1044	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body	243.40	64.27
			For Elevated Installation >10' To 15', Add	12.86	
			For Elevated Installation >15' To 20', Add	25.71	
			For Elevated Installation >20' To 25', Add	32.14	
			For Elevated Installation >25' To 30', Add	44.99	
			For Elevated Installation >30' To 35', Add	51.42	
			For Elevated Installation >35' To 40', Add	64.28	
			For Elevated Installation >40', Add	70.70	
			For Work In Restricted Working Space, Add	38.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.57	
26 05 33 13-1045	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body	297.87	70.44
			For Elevated Installation >10' To 15', Add	14.09	
			For Elevated Installation >15' To 20', Add	28.17	
			For Elevated Installation >20' To 25', Add	35.22	
			For Elevated Installation >25' To 30', Add	49.30	
			For Elevated Installation >30' To 35', Add	56.35	
			For Elevated Installation >35' To 40', Add	70.44	
			For Elevated Installation >40', Add	77.48	
			For Work In Restricted Working Space, Add	42.26	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.26	
26 05 33 13-1046	EA	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	360.55	84.53
			For Elevated Installation >10' To 15', Add	16.91	
			For Elevated Installation >15' To 20', Add	33.81	
			For Elevated Installation >20' To 25', Add	42.26	
			For Elevated Installation >25' To 30', Add	59.17	
			For Elevated Installation >30' To 35', Add	67.62	
			For Elevated Installation >35' To 40', Add	84.53	
			For Elevated Installation >40', Add	92.98	
			For Work In Restricted Working Space, Add	50.72	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.72	
26 05 33 13-1047	EA	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body	520.24	118.86
			For Elevated Installation >10' To 15', Add	23.77	
			For Elevated Installation >15' To 20', Add	47.54	
			For Elevated Installation >20' To 25', Add	59.43	
			For Elevated Installation >25' To 30', Add	83.20	
			For Elevated Installation >30' To 35', Add	95.09	
			For Elevated Installation >35' To 40', Add	118.86	
			For Elevated Installation >40', Add	130.75	
			For Work In Restricted Working Space, Add	71.32	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.32	
26 05 33 13-1048	EA	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	670.30	158.48
			For Elevated Installation >10' To 15', Add	31.70	
			For Elevated Installation >15' To 20', Add	63.39	
			For Elevated Installation >20' To 25', Add	79.24	
			For Elevated Installation >25' To 30', Add	110.94	
			For Elevated Installation >30' To 35', Add	126.78	
			For Elevated Installation >35' To 40', Add	158.48	
			For Elevated Installation >40', Add	174.33	
			For Work In Restricted Working Space, Add	95.09	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	95.09	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1049	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	1,277.64	198.10
			For Elevated Installation >10' To 15', Add	39.62	
			For Elevated Installation >15' To 20', Add	79.24	
			For Elevated Installation >20' To 25', Add	99.05	
			For Elevated Installation >25' To 30', Add	138.67	
			For Elevated Installation >30' To 35', Add	158.48	
			For Elevated Installation >35' To 40', Add	198.10	
			For Elevated Installation >40', Add	217.91	
			For Work In Restricted Working Space, Add	118.86	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	118.86	
26 05 33 13-1050	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	1,845.01	241.24
			For Elevated Installation >10' To 15', Add	48.25	
			For Elevated Installation >15' To 20', Add	96.50	
			For Elevated Installation >20' To 25', Add	120.62	
			For Elevated Installation >25' To 30', Add	168.87	
			For Elevated Installation >30' To 35', Add	193.00	
			For Elevated Installation >35' To 40', Add	241.25	
			For Elevated Installation >40', Add	265.37	
			For Work In Restricted Working Space, Add	144.75	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	144.75	
26 05 33 13-1051 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Bodies (26 05 33 13-0826)					
26 05 33 13-1052	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	255.38	42.26
			For Elevated Installation >10' To 15', Add	8.45	
			For Elevated Installation >15' To 20', Add	16.91	
			For Elevated Installation >20' To 25', Add	21.13	
			For Elevated Installation >25' To 30', Add	29.59	
			For Elevated Installation >30' To 35', Add	33.81	
			For Elevated Installation >35' To 40', Add	42.27	
			For Elevated Installation >40', Add	46.49	
			For Work In Restricted Working Space, Add	25.36	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.36	
26 05 33 13-1053	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	276.57	48.42
			For Elevated Installation >10' To 15', Add	9.69	
			For Elevated Installation >15' To 20', Add	19.37	
			For Elevated Installation >20' To 25', Add	24.21	
			For Elevated Installation >25' To 30', Add	33.90	
			For Elevated Installation >30' To 35', Add	38.74	
			For Elevated Installation >35' To 40', Add	48.43	
			For Elevated Installation >40', Add	53.27	
			For Work In Restricted Working Space, Add	29.06	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.06	
26 05 33 13-1054	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	315.92	55.47
			For Elevated Installation >10' To 15', Add	11.09	
			For Elevated Installation >15' To 20', Add	22.19	
			For Elevated Installation >20' To 25', Add	27.74	
			For Elevated Installation >25' To 30', Add	38.83	
			For Elevated Installation >30' To 35', Add	44.38	
			For Elevated Installation >35' To 40', Add	55.47	
			For Elevated Installation >40', Add	61.02	
			For Work In Restricted Working Space, Add	33.28	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.28	
26 05 33 13-1055	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	354.81	64.27
			For Elevated Installation >10' To 15', Add	12.86	
			For Elevated Installation >15' To 20', Add	25.71	
			For Elevated Installation >20' To 25', Add	32.14	
			For Elevated Installation >25' To 30', Add	44.99	
			For Elevated Installation >30' To 35', Add	51.42	
			For Elevated Installation >35' To 40', Add	64.28	
			For Elevated Installation >40', Add	70.70	
			For Work In Restricted Working Space, Add	38.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.57	
26 05 33 13-1056	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	426.11	70.44
			For Elevated Installation >10' To 15', Add	14.09	
			For Elevated Installation >15' To 20', Add	28.17	
			For Elevated Installation >20' To 25', Add	35.22	
			For Elevated Installation >25' To 30', Add	49.30	
			For Elevated Installation >30' To 35', Add	56.35	
			For Elevated Installation >35' To 40', Add	70.44	
			For Elevated Installation >40', Add	77.48	
			For Work In Restricted Working Space, Add	42.26	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.26	
26 05 33 13-1057	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	482.54	84.53
			For Elevated Installation >10' To 15', Add	16.91	
			For Elevated Installation >15' To 20', Add	33.81	
			For Elevated Installation >20' To 25', Add	42.26	
			For Elevated Installation >25' To 30', Add	59.17	
			For Elevated Installation >30' To 35', Add	67.62	
			For Elevated Installation >35' To 40', Add	84.53	
			For Elevated Installation >40', Add	92.98	
			For Work In Restricted Working Space, Add	50.72	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.72	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1058	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body 678.85	118.86	
			For Elevated Installation >10' To 15', Add	23.77	
			For Elevated Installation >15' To 20', Add	47.54	
			For Elevated Installation >20' To 25', Add	59.43	
			For Elevated Installation >25' To 30', Add	83.20	
			For Elevated Installation >30' To 35', Add	95.09	
			For Elevated Installation >35' To 40', Add	118.86	
			For Elevated Installation >40', Add	130.75	
			For Work In Restricted Working Space, Add	71.32	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.32	
26 05 33 13-1059	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body 941.94	158.48	
			For Elevated Installation >10' To 15', Add	31.70	
			For Elevated Installation >15' To 20', Add	63.39	
			For Elevated Installation >20' To 25', Add	79.24	
			For Elevated Installation >25' To 30', Add	110.94	
			For Elevated Installation >30' To 35', Add	126.78	
			For Elevated Installation >35' To 40', Add	158.48	
			For Elevated Installation >40', Add	174.33	
			For Work In Restricted Working Space, Add	95.09	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	95.09	
26 05 33 13-1060	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body 1,356.52	198.10	
			For Elevated Installation >10' To 15', Add	39.62	
			For Elevated Installation >15' To 20', Add	79.24	
			For Elevated Installation >20' To 25', Add	99.05	
			For Elevated Installation >25' To 30', Add	138.67	
			For Elevated Installation >30' To 35', Add	158.48	
			For Elevated Installation >35' To 40', Add	198.10	
			For Elevated Installation >40', Add	217.91	
			For Work In Restricted Working Space, Add	118.86	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	118.86	
26 05 33 13-1061	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body 1,948.23	241.24	
			For Elevated Installation >10' To 15', Add	48.25	
			For Elevated Installation >15' To 20', Add	96.50	
			For Elevated Installation >20' To 25', Add	120.62	
			For Elevated Installation >25' To 30', Add	168.87	
			For Elevated Installation >30' To 35', Add	193.00	
			For Elevated Installation >35' To 40', Add	241.25	
			For Elevated Installation >40', Add	265.37	
			For Work In Restricted Working Space, Add	144.75	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	144.75	
26 05 33 13-1062 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Bodies (26 05 33 13-0826)					
26 05 33 13-1063	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body 208.86	42.26	
			For Elevated Installation >10' To 15', Add	8.45	
			For Elevated Installation >15' To 20', Add	16.91	
			For Elevated Installation >20' To 25', Add	21.13	
			For Elevated Installation >25' To 30', Add	29.59	
			For Elevated Installation >30' To 35', Add	33.81	
			For Elevated Installation >35' To 40', Add	42.27	
			For Elevated Installation >40', Add	46.49	
			For Work In Restricted Working Space, Add	25.36	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.36	
26 05 33 13-1064	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body 224.49	48.42	
			For Elevated Installation >10' To 15', Add	9.69	
			For Elevated Installation >15' To 20', Add	19.37	
			For Elevated Installation >20' To 25', Add	24.21	
			For Elevated Installation >25' To 30', Add	33.90	
			For Elevated Installation >30' To 35', Add	38.74	
			For Elevated Installation >35' To 40', Add	48.43	
			For Elevated Installation >40', Add	53.27	
			For Work In Restricted Working Space, Add	29.06	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.06	
26 05 33 13-1065	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body 257.83	55.47	
			For Elevated Installation >10' To 15', Add	11.09	
			For Elevated Installation >15' To 20', Add	22.19	
			For Elevated Installation >20' To 25', Add	27.74	
			For Elevated Installation >25' To 30', Add	38.83	
			For Elevated Installation >30' To 35', Add	44.38	
			For Elevated Installation >35' To 40', Add	55.47	
			For Elevated Installation >40', Add	61.02	
			For Work In Restricted Working Space, Add	33.28	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.28	
26 05 33 13-1066	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body 288.93	64.27	
			For Elevated Installation >10' To 15', Add	12.86	
			For Elevated Installation >15' To 20', Add	25.71	
			For Elevated Installation >20' To 25', Add	32.14	
			For Elevated Installation >25' To 30', Add	44.99	
			For Elevated Installation >30' To 35', Add	51.42	
			For Elevated Installation >35' To 40', Add	64.28	
			For Elevated Installation >40', Add	70.70	
			For Work In Restricted Working Space, Add	38.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.57	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1067	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	387.75	70.44
			For Elevated Installation >10' To 15', Add	14.09	
			For Elevated Installation >15' To 20', Add	28.17	
			For Elevated Installation >20' To 25', Add	35.22	
			For Elevated Installation >25' To 30', Add	49.30	
			For Elevated Installation >30' To 35', Add	56.35	
			For Elevated Installation >35' To 40', Add	70.44	
			For Elevated Installation >40', Add	77.48	
			For Work In Restricted Working Space, Add	42.26	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.26	
26 05 33 13-1068	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	484.86	84.53
			For Elevated Installation >10' To 15', Add	16.91	
			For Elevated Installation >15' To 20', Add	33.81	
			For Elevated Installation >20' To 25', Add	42.26	
			For Elevated Installation >25' To 30', Add	59.17	
			For Elevated Installation >30' To 35', Add	67.62	
			For Elevated Installation >35' To 40', Add	84.53	
			For Elevated Installation >40', Add	92.98	
			For Work In Restricted Working Space, Add	50.72	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.72	
26 05 33 13-1069	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	746.30	118.86
			For Elevated Installation >10' To 15', Add	23.77	
			For Elevated Installation >15' To 20', Add	47.54	
			For Elevated Installation >20' To 25', Add	59.43	
			For Elevated Installation >25' To 30', Add	83.20	
			For Elevated Installation >30' To 35', Add	95.09	
			For Elevated Installation >35' To 40', Add	118.86	
			For Elevated Installation >40', Add	130.75	
			For Work In Restricted Working Space, Add	71.32	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.32	
26 05 33 13-1070	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	1,079.18	158.48
			For Elevated Installation >10' To 15', Add	31.70	
			For Elevated Installation >15' To 20', Add	63.39	
			For Elevated Installation >20' To 25', Add	79.24	
			For Elevated Installation >25' To 30', Add	110.94	
			For Elevated Installation >30' To 35', Add	126.78	
			For Elevated Installation >35' To 40', Add	158.48	
			For Elevated Installation >40', Add	174.33	
			For Work In Restricted Working Space, Add	95.09	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	95.09	
26 05 33 13-1071	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	1,356.52	198.10
			For Elevated Installation >10' To 15', Add	39.62	
			For Elevated Installation >15' To 20', Add	79.24	
			For Elevated Installation >20' To 25', Add	99.05	
			For Elevated Installation >25' To 30', Add	138.67	
			For Elevated Installation >30' To 35', Add	158.48	
			For Elevated Installation >35' To 40', Add	198.10	
			For Elevated Installation >40', Add	217.91	
			For Work In Restricted Working Space, Add	118.86	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	118.86	
26 05 33 13-1072			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZZ Sealing Conduit Bodies (26 05 33 13-0826)		
26 05 33 13-1073	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZZ Sealing Conduit Body	269.03	42.26
			For Elevated Installation >10' To 15', Add	8.45	
			For Elevated Installation >15' To 20', Add	16.91	
			For Elevated Installation >20' To 25', Add	21.13	
			For Elevated Installation >25' To 30', Add	29.59	
			For Elevated Installation >30' To 35', Add	33.81	
			For Elevated Installation >35' To 40', Add	42.27	
			For Elevated Installation >40', Add	46.49	
			For Work In Restricted Working Space, Add	25.36	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.36	
26 05 33 13-1074	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZZ Sealing Conduit Body	299.35	48.42
			For Elevated Installation >10' To 15', Add	9.69	
			For Elevated Installation >15' To 20', Add	19.37	
			For Elevated Installation >20' To 25', Add	24.21	
			For Elevated Installation >25' To 30', Add	33.90	
			For Elevated Installation >30' To 35', Add	38.74	
			For Elevated Installation >35' To 40', Add	48.43	
			For Elevated Installation >40', Add	53.27	
			For Work In Restricted Working Space, Add	29.06	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.06	
26 05 33 13-1075	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZZ Sealing Conduit Body	368.61	55.47
			For Elevated Installation >10' To 15', Add	11.09	
			For Elevated Installation >15' To 20', Add	22.19	
			For Elevated Installation >20' To 25', Add	27.74	
			For Elevated Installation >25' To 30', Add	38.83	
			For Elevated Installation >30' To 35', Add	44.38	
			For Elevated Installation >35' To 40', Add	55.47	
			For Elevated Installation >40', Add	61.02	
			For Work In Restricted Working Space, Add	33.28	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.28	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1076	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit		
			Body	452.24	64.27
			For Elevated Installation >10' To 15', Add	12.86	
			For Elevated Installation >15' To 20', Add	25.71	
			For Elevated Installation >20' To 25', Add	32.14	
			For Elevated Installation >25' To 30', Add	44.99	
			For Elevated Installation >30' To 35', Add	51.42	
			For Elevated Installation >35' To 40', Add	64.28	
			For Elevated Installation >40', Add	70.70	
			For Work In Restricted Working Space, Add	38.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.57	
26 05 33 13-1077	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit		
			Body	618.50	70.44
			For Elevated Installation >10' To 15', Add	14.09	
			For Elevated Installation >15' To 20', Add	28.17	
			For Elevated Installation >20' To 25', Add	35.22	
			For Elevated Installation >25' To 30', Add	49.30	
			For Elevated Installation >30' To 35', Add	56.35	
			For Elevated Installation >35' To 40', Add	70.44	
			For Elevated Installation >40', Add	77.48	
			For Work In Restricted Working Space, Add	42.26	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.26	
26 05 33 13-1078	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	741.32	84.53
			For Elevated Installation >10' To 15', Add	16.91	
			For Elevated Installation >15' To 20', Add	33.81	
			For Elevated Installation >20' To 25', Add	42.26	
			For Elevated Installation >25' To 30', Add	59.17	
			For Elevated Installation >30' To 35', Add	67.62	
			For Elevated Installation >35' To 40', Add	84.53	
			For Elevated Installation >40', Add	92.98	
			For Work In Restricted Working Space, Add	50.72	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.72	
26 05 33 13-1079			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Couplings (26 05 33 13-0826)		
26 05 33 13-1080	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	56.46	16.94
			For Elevated Installation >10' To 15', Add	3.39	
			For Elevated Installation >15' To 20', Add	6.77	
			For Elevated Installation >20' To 25', Add	8.47	
			For Elevated Installation >25' To 30', Add	11.85	
			For Elevated Installation >30' To 35', Add	13.54	
			For Elevated Installation >35' To 40', Add	16.93	
			For Elevated Installation >40', Add	18.62	
			For Work In Restricted Working Space, Add	10.16	
26 05 33 13-1081	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	73.75	20.32
			For Elevated Installation >10' To 15', Add	4.06	
			For Elevated Installation >15' To 20', Add	8.13	
			For Elevated Installation >20' To 25', Add	10.16	
			For Elevated Installation >25' To 30', Add	14.22	
			For Elevated Installation >30' To 35', Add	16.25	
			For Elevated Installation >35' To 40', Add	20.32	
			For Elevated Installation >40', Add	22.35	
			For Work In Restricted Working Space, Add	12.19	
26 05 33 13-1082	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	94.39	27.09
			For Elevated Installation >10' To 15', Add	5.42	
			For Elevated Installation >15' To 20', Add	10.84	
			For Elevated Installation >20' To 25', Add	13.55	
			For Elevated Installation >25' To 30', Add	18.96	
			For Elevated Installation >30' To 35', Add	21.67	
			For Elevated Installation >35' To 40', Add	27.09	
			For Elevated Installation >40', Add	29.80	
			For Work In Restricted Working Space, Add	16.25	
26 05 33 13-1083	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	128.09	33.86
			For Elevated Installation >10' To 15', Add	6.77	
			For Elevated Installation >15' To 20', Add	13.55	
			For Elevated Installation >20' To 25', Add	16.93	
			For Elevated Installation >25' To 30', Add	23.71	
			For Elevated Installation >30' To 35', Add	27.09	
			For Elevated Installation >35' To 40', Add	33.87	
			For Elevated Installation >40', Add	37.25	
			For Work In Restricted Working Space, Add	20.32	
26 05 33 13-1084	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	166.07	40.63
			For Elevated Installation >10' To 15', Add	8.13	
			For Elevated Installation >15' To 20', Add	16.25	
			For Elevated Installation >20' To 25', Add	20.32	
			For Elevated Installation >25' To 30', Add	28.44	
			For Elevated Installation >30' To 35', Add	32.51	
			For Elevated Installation >35' To 40', Add	40.64	
			For Elevated Installation >40', Add	44.70	
			For Work In Restricted Working Space, Add	24.38	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1085 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	274.11	47.41
For Elevated Installation >10' To 15', Add	9.48	
For Elevated Installation >15' To 20', Add	18.96	
For Elevated Installation >20' To 25', Add	23.71	
For Elevated Installation >25' To 30', Add	33.19	
For Elevated Installation >30' To 35', Add	37.93	
For Elevated Installation >35' To 40', Add	47.41	
For Elevated Installation >40', Add	52.15	
For Work In Restricted Working Space, Add	28.45	
26 05 33 13-1086 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	390.63	54.18
For Elevated Installation >10' To 15', Add	10.84	
For Elevated Installation >15' To 20', Add	21.67	
For Elevated Installation >20' To 25', Add	27.09	
For Elevated Installation >25' To 30', Add	37.93	
For Elevated Installation >30' To 35', Add	43.34	
For Elevated Installation >35' To 40', Add	54.18	
For Elevated Installation >40', Add	59.60	
For Work In Restricted Working Space, Add	32.51	
26 05 33 13-1087 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	483.88	60.96
For Elevated Installation >10' To 15', Add	12.19	
For Elevated Installation >15' To 20', Add	24.38	
For Elevated Installation >20' To 25', Add	30.48	
For Elevated Installation >25' To 30', Add	42.67	
For Elevated Installation >30' To 35', Add	48.76	
For Elevated Installation >35' To 40', Add	60.95	
For Elevated Installation >40', Add	67.05	
For Work In Restricted Working Space, Add	36.57	
26 05 33 13-1088 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	666.37	71.11
For Elevated Installation >10' To 15', Add	14.22	
For Elevated Installation >15' To 20', Add	28.45	
For Elevated Installation >20' To 25', Add	35.56	
For Elevated Installation >25' To 30', Add	49.78	
For Elevated Installation >30' To 35', Add	56.89	
For Elevated Installation >35' To 40', Add	71.12	
For Elevated Installation >40', Add	78.23	
For Work In Restricted Working Space, Add	42.67	
26 05 33 13-1089 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	806.43	81.27
For Elevated Installation >10' To 15', Add	16.25	
For Elevated Installation >15' To 20', Add	32.51	
For Elevated Installation >20' To 25', Add	40.64	
For Elevated Installation >25' To 30', Add	56.89	
For Elevated Installation >30' To 35', Add	65.02	
For Elevated Installation >35' To 40', Add	81.27	
For Elevated Installation >40', Add	89.40	
For Work In Restricted Working Space, Add	48.76	
26 05 33 13-1090 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	1,289.97	128.68
For Elevated Installation >10' To 15', Add	25.74	
For Elevated Installation >15' To 20', Add	51.47	
For Elevated Installation >20' To 25', Add	64.34	
For Elevated Installation >25' To 30', Add	90.07	
For Elevated Installation >30' To 35', Add	102.94	
For Elevated Installation >35' To 40', Add	128.68	
For Elevated Installation >40', Add	141.54	
For Work In Restricted Working Space, Add	77.21	
26 05 33 13-1091 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling	1,774.11	196.41
For Elevated Installation >10' To 15', Add	39.28	
For Elevated Installation >15' To 20', Add	78.56	
For Elevated Installation >20' To 25', Add	98.21	
For Elevated Installation >25' To 30', Add	137.49	
For Elevated Installation >30' To 35', Add	157.13	
For Elevated Installation >35' To 40', Add	196.41	
For Elevated Installation >40', Add	216.05	
For Work In Restricted Working Space, Add	117.85	
26 05 33 13-1092 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbows (26 05 33 13-0826)		
26 05 33 13-1093 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow	198.25	42.26
For Elevated Installation >10' To 15', Add	8.45	
For Elevated Installation >15' To 20', Add	16.91	
For Elevated Installation >20' To 25', Add	21.13	
For Elevated Installation >25' To 30', Add	29.59	
For Elevated Installation >30' To 35', Add	33.81	
For Elevated Installation >35' To 40', Add	42.27	
For Elevated Installation >40', Add	46.49	
For Work In Restricted Working Space, Add	25.36	
26 05 33 13-1094 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow	232.64	46.67
For Elevated Installation >10' To 15', Add	9.33	
For Elevated Installation >15' To 20', Add	18.66	
For Elevated Installation >20' To 25', Add	23.33	
For Elevated Installation >25' To 30', Add	32.66	
For Elevated Installation >30' To 35', Add	37.33	
For Elevated Installation >35' To 40', Add	46.66	
For Elevated Installation >40', Add	51.33	
For Work In Restricted Working Space, Add	28.00	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1095	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	258.80	55.47
			For Elevated Installation >10' To 15', Add	11.09	
			For Elevated Installation >15' To 20', Add	22.19	
			For Elevated Installation >20' To 25', Add	27.74	
			For Elevated Installation >25' To 30', Add	38.83	
			For Elevated Installation >30' To 35', Add	44.38	
			For Elevated Installation >35' To 40', Add	55.47	
			For Elevated Installation >40', Add	61.02	
			For Work In Restricted Working Space, Add	33.28	
26 05 33 13-1096	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow	363.83	64.27
			For Elevated Installation >10' To 15', Add	12.86	
			For Elevated Installation >15' To 20', Add	25.71	
			For Elevated Installation >20' To 25', Add	32.14	
			For Elevated Installation >25' To 30', Add	44.99	
			For Elevated Installation >30' To 35', Add	51.42	
			For Elevated Installation >35' To 40', Add	64.28	
			For Elevated Installation >40', Add	70.70	
			For Work In Restricted Working Space, Add	38.57	
26 05 33 13-1097	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow	472.41	70.44
			For Elevated Installation >10' To 15', Add	14.09	
			For Elevated Installation >15' To 20', Add	28.17	
			For Elevated Installation >20' To 25', Add	35.22	
			For Elevated Installation >25' To 30', Add	49.30	
			For Elevated Installation >30' To 35', Add	56.35	
			For Elevated Installation >35' To 40', Add	70.44	
			For Elevated Installation >40', Add	77.48	
			For Work In Restricted Working Space, Add	42.26	
26 05 33 13-1098	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	514.36	84.53
			For Elevated Installation >10' To 15', Add	16.91	
			For Elevated Installation >15' To 20', Add	33.81	
			For Elevated Installation >20' To 25', Add	42.26	
			For Elevated Installation >25' To 30', Add	59.17	
			For Elevated Installation >30' To 35', Add	67.62	
			For Elevated Installation >35' To 40', Add	84.53	
			For Elevated Installation >40', Add	92.98	
			For Work In Restricted Working Space, Add	50.72	
26 05 33 13-1099	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow	1,171.70	117.10
			For Elevated Installation >10' To 15', Add	23.42	
			For Elevated Installation >15' To 20', Add	46.84	
			For Elevated Installation >20' To 25', Add	58.55	
			For Elevated Installation >25' To 30', Add	81.97	
			For Elevated Installation >30' To 35', Add	93.68	
			For Elevated Installation >35' To 40', Add	117.10	
			For Elevated Installation >40', Add	128.81	
			For Work In Restricted Working Space, Add	70.26	
26 05 33 13-1100	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	1,254.69	158.48
			For Elevated Installation >10' To 15', Add	31.70	
			For Elevated Installation >15' To 20', Add	63.39	
			For Elevated Installation >20' To 25', Add	79.24	
			For Elevated Installation >25' To 30', Add	110.94	
			For Elevated Installation >30' To 35', Add	126.79	
			For Elevated Installation >35' To 40', Add	158.49	
			For Elevated Installation >40', Add	174.33	
			For Work In Restricted Working Space, Add	95.09	
26 05 33 13-1101	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow	2,020.51	198.10
			For Elevated Installation >10' To 15', Add	39.62	
			For Elevated Installation >15' To 20', Add	79.24	
			For Elevated Installation >20' To 25', Add	99.06	
			For Elevated Installation >25' To 30', Add	138.68	
			For Elevated Installation >30' To 35', Add	158.49	
			For Elevated Installation >35' To 40', Add	198.11	
			For Elevated Installation >40', Add	217.92	
			For Work In Restricted Working Space, Add	118.87	
26 05 33 13-1102	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	2,122.56	241.24
			For Elevated Installation >10' To 15', Add	48.25	
			For Elevated Installation >15' To 20', Add	96.50	
			For Elevated Installation >20' To 25', Add	120.63	
			For Elevated Installation >25' To 30', Add	168.88	
			For Elevated Installation >30' To 35', Add	193.01	
			For Elevated Installation >35' To 40', Add	241.26	
			For Elevated Installation >40', Add	265.39	
			For Work In Restricted Working Space, Add	144.76	
26 05 33 13-1103			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbows (26 05 33 13-0826)		
26 05 33 13-1104	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	279.19	42.26
			For Elevated Installation >10' To 15', Add	8.45	
			For Elevated Installation >15' To 20', Add	16.91	
			For Elevated Installation >20' To 25', Add	21.13	
			For Elevated Installation >25' To 30', Add	29.59	
			For Elevated Installation >30' To 35', Add	33.81	
			For Elevated Installation >35' To 40', Add	42.27	
			For Elevated Installation >40', Add	46.49	
			For Work In Restricted Working Space, Add	25.36	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1105	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	318.19	48.42
			For Elevated Installation >10' To 15', Add	9.69	
			For Elevated Installation >15' To 20', Add	19.37	
			For Elevated Installation >20' To 25', Add	24.21	
			For Elevated Installation >25' To 30', Add	33.90	
			For Elevated Installation >30' To 35', Add	38.74	
			For Elevated Installation >35' To 40', Add	48.43	
			For Elevated Installation >40', Add	53.27	
			For Work In Restricted Working Space, Add	29.06	
26 05 33 13-1106	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	606.98	55.47
			For Elevated Installation >10' To 15', Add	11.09	
			For Elevated Installation >15' To 20', Add	22.19	
			For Elevated Installation >20' To 25', Add	27.74	
			For Elevated Installation >25' To 30', Add	38.83	
			For Elevated Installation >30' To 35', Add	44.38	
			For Elevated Installation >35' To 40', Add	55.47	
			For Elevated Installation >40', Add	61.02	
			For Work In Restricted Working Space, Add	33.28	
26 05 33 13-1107	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	639.90	64.27
			For Elevated Installation >10' To 15', Add	12.86	
			For Elevated Installation >15' To 20', Add	25.71	
			For Elevated Installation >20' To 25', Add	32.14	
			For Elevated Installation >25' To 30', Add	44.99	
			For Elevated Installation >30' To 35', Add	51.42	
			For Elevated Installation >35' To 40', Add	64.28	
			For Elevated Installation >40', Add	70.70	
			For Work In Restricted Working Space, Add	38.57	
26 05 33 13-1108	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	865.67	70.44
			For Elevated Installation >10' To 15', Add	14.09	
			For Elevated Installation >15' To 20', Add	28.17	
			For Elevated Installation >20' To 25', Add	35.22	
			For Elevated Installation >25' To 30', Add	49.30	
			For Elevated Installation >30' To 35', Add	56.35	
			For Elevated Installation >35' To 40', Add	70.44	
			For Elevated Installation >40', Add	77.48	
			For Work In Restricted Working Space, Add	42.26	
26 05 33 13-1109	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	928.23	84.53
			For Elevated Installation >10' To 15', Add	16.91	
			For Elevated Installation >15' To 20', Add	33.81	
			For Elevated Installation >20' To 25', Add	42.26	
			For Elevated Installation >25' To 30', Add	59.17	
			For Elevated Installation >30' To 35', Add	67.62	
			For Elevated Installation >35' To 40', Add	84.53	
			For Elevated Installation >40', Add	92.98	
			For Work In Restricted Working Space, Add	50.72	
26 05 33 13-1110	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	1,762.13	118.86
			For Elevated Installation >10' To 15', Add	23.77	
			For Elevated Installation >15' To 20', Add	47.54	
			For Elevated Installation >20' To 25', Add	59.43	
			For Elevated Installation >25' To 30', Add	83.20	
			For Elevated Installation >30' To 35', Add	95.09	
			For Elevated Installation >35' To 40', Add	118.86	
			For Elevated Installation >40', Add	130.75	
			For Work In Restricted Working Space, Add	71.32	
26 05 33 13-1111	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	1,871.51	158.48
			For Elevated Installation >10' To 15', Add	31.70	
			For Elevated Installation >15' To 20', Add	63.39	
			For Elevated Installation >20' To 25', Add	79.24	
			For Elevated Installation >25' To 30', Add	110.94	
			For Elevated Installation >30' To 35', Add	126.78	
			For Elevated Installation >35' To 40', Add	158.48	
			For Elevated Installation >40', Add	174.33	
			For Work In Restricted Working Space, Add	95.09	
26 05 33 13-1112	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow	2,724.09	198.10
			For Elevated Installation >10' To 15', Add	39.62	
			For Elevated Installation >15' To 20', Add	79.24	
			For Elevated Installation >20' To 25', Add	99.05	
			For Elevated Installation >25' To 30', Add	138.67	
			For Elevated Installation >30' To 35', Add	158.48	
			For Elevated Installation >35' To 40', Add	198.10	
			For Elevated Installation >40', Add	217.91	
			For Work In Restricted Working Space, Add	118.86	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1113	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	3,093.35	241.24
			For Elevated Installation >10' To 15', Add	48.25	
			For Elevated Installation >15' To 20', Add	96.50	
			For Elevated Installation >20' To 25', Add	120.62	
			For Elevated Installation >25' To 30', Add	168.87	
			For Elevated Installation >30' To 35', Add	193.00	
			For Elevated Installation >35' To 40', Add	241.25	
			For Elevated Installation >40', Add	265.37	
			For Work In Restricted Working Space, Add	144.75	
26 05 33 13-1114 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbows (26 05 33 13-0826)					
26 05 33 13-1115	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow	110.10	22.02
			For Elevated Installation >10' To 15', Add	4.40	
			For Elevated Installation >15' To 20', Add	8.80	
			For Elevated Installation >20' To 25', Add	11.01	
			For Elevated Installation >25' To 30', Add	15.41	
			For Elevated Installation >30' To 35', Add	17.61	
			For Elevated Installation >35' To 40', Add	22.01	
			For Elevated Installation >40', Add	24.21	
			For Work In Restricted Working Space, Add	13.21	
26 05 33 13-1116	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow	128.98	27.30
			For Elevated Installation >10' To 15', Add	5.46	
			For Elevated Installation >15' To 20', Add	10.92	
			For Elevated Installation >20' To 25', Add	13.65	
			For Elevated Installation >25' To 30', Add	19.10	
			For Elevated Installation >30' To 35', Add	21.83	
			For Elevated Installation >35' To 40', Add	27.29	
			For Elevated Installation >40', Add	30.02	
			For Work In Restricted Working Space, Add	16.37	
26 05 33 13-1117	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow	154.14	33.46
			For Elevated Installation >10' To 15', Add	6.69	
			For Elevated Installation >15' To 20', Add	13.38	
			For Elevated Installation >20' To 25', Add	16.73	
			For Elevated Installation >25' To 30', Add	23.42	
			For Elevated Installation >30' To 35', Add	26.76	
			For Elevated Installation >35' To 40', Add	33.46	
			For Elevated Installation >40', Add	36.80	
			For Work In Restricted Working Space, Add	20.07	
26 05 33 13-1118	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow	181.57	38.74
			For Elevated Installation >10' To 15', Add	7.75	
			For Elevated Installation >15' To 20', Add	15.50	
			For Elevated Installation >20' To 25', Add	19.37	
			For Elevated Installation >25' To 30', Add	27.12	
			For Elevated Installation >30' To 35', Add	30.99	
			For Elevated Installation >35' To 40', Add	38.74	
			For Elevated Installation >40', Add	42.61	
			For Work In Restricted Working Space, Add	23.24	
26 05 33 13-1119 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbows (26 05 33 13-0826)					
26 05 33 13-1120	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow	89.01	22.02
			For Elevated Installation >10' To 15', Add	4.40	
			For Elevated Installation >15' To 20', Add	8.80	
			For Elevated Installation >20' To 25', Add	11.01	
			For Elevated Installation >25' To 30', Add	15.41	
			For Elevated Installation >30' To 35', Add	17.61	
			For Elevated Installation >35' To 40', Add	22.01	
			For Elevated Installation >40', Add	24.21	
			For Work In Restricted Working Space, Add	13.21	
26 05 33 13-1121	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow	103.67	27.30
			For Elevated Installation >10' To 15', Add	5.46	
			For Elevated Installation >15' To 20', Add	10.92	
			For Elevated Installation >20' To 25', Add	13.65	
			For Elevated Installation >25' To 30', Add	19.10	
			For Elevated Installation >30' To 35', Add	21.83	
			For Elevated Installation >35' To 40', Add	27.29	
			For Elevated Installation >40', Add	30.02	
			For Work In Restricted Working Space, Add	16.37	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1122	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	141.81	33.46
		For Elevated Installation >10' To 15', Add	6.69	
		For Elevated Installation >15' To 20', Add	13.38	
		For Elevated Installation >20' To 25', Add	16.73	
		For Elevated Installation >25' To 30', Add	23.42	
		For Elevated Installation >30' To 35', Add	26.76	
		For Elevated Installation >35' To 40', Add	33.46	
		For Elevated Installation >40', Add	36.80	
		For Work In Restricted Working Space, Add	20.07	
26 05 33 13-1123	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	181.67	38.74
		For Elevated Installation >10' To 15', Add	7.75	
		For Elevated Installation >15' To 20', Add	15.50	
		For Elevated Installation >20' To 25', Add	19.37	
		For Elevated Installation >25' To 30', Add	27.12	
		For Elevated Installation >30' To 35', Add	30.99	
		For Elevated Installation >35' To 40', Add	38.74	
		For Elevated Installation >40', Add	42.61	
		For Work In Restricted Working Space, Add	23.24	
26 05 33 13-1124	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	219.80	44.02
		For Elevated Installation >10' To 15', Add	8.80	
		For Elevated Installation >15' To 20', Add	17.61	
		For Elevated Installation >20' To 25', Add	22.01	
		For Elevated Installation >25' To 30', Add	30.81	
		For Elevated Installation >30' To 35', Add	35.22	
		For Elevated Installation >35' To 40', Add	44.02	
		For Elevated Installation >40', Add	48.42	
		For Work In Restricted Working Space, Add	26.41	
26 05 33 13-1125	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	308.71	48.42
		For Elevated Installation >10' To 15', Add	9.69	
		For Elevated Installation >15' To 20', Add	19.37	
		For Elevated Installation >20' To 25', Add	24.21	
		For Elevated Installation >25' To 30', Add	33.90	
		For Elevated Installation >30' To 35', Add	38.74	
		For Elevated Installation >35' To 40', Add	48.43	
		For Elevated Installation >40', Add	53.27	
		For Work In Restricted Working Space, Add	29.06	
26 05 33 13-1126	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	419.19	60.75
		For Elevated Installation >10' To 15', Add	12.15	
		For Elevated Installation >15' To 20', Add	24.30	
		For Elevated Installation >20' To 25', Add	30.38	
		For Elevated Installation >25' To 30', Add	42.53	
		For Elevated Installation >30' To 35', Add	48.60	
		For Elevated Installation >35' To 40', Add	60.75	
		For Elevated Installation >40', Add	66.83	
		For Work In Restricted Working Space, Add	36.45	
26 05 33 13-1127 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbows (26 05 33 13-0826)				
26 05 33 13-1128	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow.....	110.14	22.02
		For Elevated Installation >10' To 15', Add	4.40	
		For Elevated Installation >15' To 20', Add	8.80	
		For Elevated Installation >20' To 25', Add	11.01	
		For Elevated Installation >25' To 30', Add	15.41	
		For Elevated Installation >30' To 35', Add	17.61	
		For Elevated Installation >35' To 40', Add	22.01	
		For Elevated Installation >40', Add	24.21	
		For Work In Restricted Working Space, Add	13.21	
26 05 33 13-1129	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow.....	131.90	27.30
		For Elevated Installation >10' To 15', Add	5.46	
		For Elevated Installation >15' To 20', Add	10.92	
		For Elevated Installation >20' To 25', Add	13.65	
		For Elevated Installation >25' To 30', Add	19.10	
		For Elevated Installation >30' To 35', Add	21.83	
		For Elevated Installation >35' To 40', Add	27.29	
		For Elevated Installation >40', Add	30.02	
		For Work In Restricted Working Space, Add	16.37	
26 05 33 13-1130	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow.....	154.17	33.46
		For Elevated Installation >10' To 15', Add	6.69	
		For Elevated Installation >15' To 20', Add	13.38	
		For Elevated Installation >20' To 25', Add	16.73	
		For Elevated Installation >25' To 30', Add	23.42	
		For Elevated Installation >30' To 35', Add	26.76	
		For Elevated Installation >35' To 40', Add	33.46	
		For Elevated Installation >40', Add	36.80	
		For Work In Restricted Working Space, Add	20.07	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1131	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow.....	181.62	38.74
			For Elevated Installation >10' To 15', Add	7.75	
			For Elevated Installation >15' To 20', Add	15.50	
			For Elevated Installation >20' To 25', Add	19.37	
			For Elevated Installation >25' To 30', Add	27.12	
			For Elevated Installation >30' To 35', Add	30.99	
			For Elevated Installation >35' To 40', Add	38.74	
			For Elevated Installation >40', Add	42.61	
			For Work In Restricted Working Space, Add	23.24	
26 05 33 13-1132			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbows (26 05 33 13-0826)		
26 05 33 13-1133	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	89.08	22.02
			For Elevated Installation >10' To 15', Add	4.40	
			For Elevated Installation >15' To 20', Add	8.80	
			For Elevated Installation >20' To 25', Add	11.01	
			For Elevated Installation >25' To 30', Add	15.41	
			For Elevated Installation >30' To 35', Add	17.61	
			For Elevated Installation >35' To 40', Add	22.01	
			For Elevated Installation >40', Add	24.21	
			For Work In Restricted Working Space, Add	13.21	
26 05 33 13-1134	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	103.67	27.30
			For Elevated Installation >10' To 15', Add	5.46	
			For Elevated Installation >15' To 20', Add	10.92	
			For Elevated Installation >20' To 25', Add	13.65	
			For Elevated Installation >25' To 30', Add	19.10	
			For Elevated Installation >30' To 35', Add	21.83	
			For Elevated Installation >35' To 40', Add	27.29	
			For Elevated Installation >40', Add	30.02	
			For Work In Restricted Working Space, Add	16.37	
26 05 33 13-1135	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	133.08	33.46
			For Elevated Installation >10' To 15', Add	6.69	
			For Elevated Installation >15' To 20', Add	13.38	
			For Elevated Installation >20' To 25', Add	16.73	
			For Elevated Installation >25' To 30', Add	23.42	
			For Elevated Installation >30' To 35', Add	26.76	
			For Elevated Installation >35' To 40', Add	33.46	
			For Elevated Installation >40', Add	36.80	
			For Work In Restricted Working Space, Add	20.07	
26 05 33 13-1136	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	164.71	38.74
			For Elevated Installation >10' To 15', Add	7.75	
			For Elevated Installation >15' To 20', Add	15.50	
			For Elevated Installation >20' To 25', Add	19.37	
			For Elevated Installation >25' To 30', Add	27.12	
			For Elevated Installation >30' To 35', Add	30.99	
			For Elevated Installation >35' To 40', Add	38.74	
			For Elevated Installation >40', Add	42.61	
			For Work In Restricted Working Space, Add	23.24	
26 05 33 13-1137	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	192.18	44.02
			For Elevated Installation >10' To 15', Add	8.80	
			For Elevated Installation >15' To 20', Add	17.61	
			For Elevated Installation >20' To 25', Add	22.01	
			For Elevated Installation >25' To 30', Add	30.81	
			For Elevated Installation >30' To 35', Add	35.22	
			For Elevated Installation >35' To 40', Add	44.02	
			For Elevated Installation >40', Add	48.42	
			For Work In Restricted Working Space, Add	26.41	
26 05 33 13-1138	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	220.24	48.42
			For Elevated Installation >10' To 15', Add	9.69	
			For Elevated Installation >15' To 20', Add	19.37	
			For Elevated Installation >20' To 25', Add	24.21	
			For Elevated Installation >25' To 30', Add	33.90	
			For Elevated Installation >30' To 35', Add	38.74	
			For Elevated Installation >35' To 40', Add	48.43	
			For Elevated Installation >40', Add	53.27	
			For Work In Restricted Working Space, Add	29.06	
26 05 33 13-1139	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	396.63	60.75
			For Elevated Installation >10' To 15', Add	12.15	
			For Elevated Installation >15' To 20', Add	24.30	
			For Elevated Installation >20' To 25', Add	30.38	
			For Elevated Installation >25' To 30', Add	42.53	
			For Elevated Installation >30' To 35', Add	48.60	
			For Elevated Installation >35' To 40', Add	60.75	
			For Elevated Installation >40', Add	66.83	
			For Work In Restricted Working Space, Add	36.45	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1140 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	461.09	82.76
For Elevated Installation >10' To 15', Add	16.55	
For Elevated Installation >15' To 20', Add	33.10	
For Elevated Installation >20' To 25', Add	41.38	
For Elevated Installation >25' To 30', Add	57.93	
For Elevated Installation >30' To 35', Add	66.21	
For Elevated Installation >35' To 40', Add	82.76	
For Elevated Installation >40', Add	91.04	
For Work In Restricted Working Space, Add	49.66	
26 05 33 13-1141 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	499.47	93.32
For Elevated Installation >10' To 15', Add	18.67	
For Elevated Installation >15' To 20', Add	37.33	
For Elevated Installation >20' To 25', Add	46.67	
For Elevated Installation >25' To 30', Add	65.33	
For Elevated Installation >30' To 35', Add	74.66	
For Elevated Installation >35' To 40', Add	93.33	
For Elevated Installation >40', Add	102.66	
For Work In Restricted Working Space, Add	56.00	
26 05 33 13-1142 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	619.36	121.50
For Elevated Installation >10' To 15', Add	24.30	
For Elevated Installation >15' To 20', Add	48.60	
For Elevated Installation >20' To 25', Add	60.75	
For Elevated Installation >25' To 30', Add	85.05	
For Elevated Installation >30' To 35', Add	97.20	
For Elevated Installation >35' To 40', Add	121.50	
For Elevated Installation >40', Add	133.65	
For Work In Restricted Working Space, Add	72.90	
26 05 33 13-1143 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbows (26 05 33 13-0826)		
26 05 33 13-1144 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	184.60	42.26
For Elevated Installation >10' To 15', Add	8.45	
For Elevated Installation >15' To 20', Add	16.91	
For Elevated Installation >20' To 25', Add	21.13	
For Elevated Installation >25' To 30', Add	29.59	
For Elevated Installation >30' To 35', Add	33.81	
For Elevated Installation >35' To 40', Add	42.27	
For Elevated Installation >40', Add	46.49	
For Work In Restricted Working Space, Add	25.36	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.36	
26 05 33 13-1145 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	200.85	48.42
For Elevated Installation >10' To 15', Add	9.69	
For Elevated Installation >15' To 20', Add	19.37	
For Elevated Installation >20' To 25', Add	24.21	
For Elevated Installation >25' To 30', Add	33.90	
For Elevated Installation >30' To 35', Add	38.74	
For Elevated Installation >35' To 40', Add	48.43	
For Elevated Installation >40', Add	53.27	
For Work In Restricted Working Space, Add	29.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.06	
26 05 33 13-1146 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	221.09	55.47
For Elevated Installation >10' To 15', Add	11.09	
For Elevated Installation >15' To 20', Add	22.19	
For Elevated Installation >20' To 25', Add	27.74	
For Elevated Installation >25' To 30', Add	38.83	
For Elevated Installation >30' To 35', Add	44.38	
For Elevated Installation >35' To 40', Add	55.47	
For Elevated Installation >40', Add	61.02	
For Work In Restricted Working Space, Add	33.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.28	
26 05 33 13-1147 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	291.87	64.27
For Elevated Installation >10' To 15', Add	12.86	
For Elevated Installation >15' To 20', Add	25.71	
For Elevated Installation >20' To 25', Add	32.14	
For Elevated Installation >25' To 30', Add	44.99	
For Elevated Installation >30' To 35', Add	51.42	
For Elevated Installation >35' To 40', Add	64.28	
For Elevated Installation >40', Add	70.70	
For Work In Restricted Working Space, Add	38.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.57	
26 05 33 13-1148 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow	365.73	70.44
For Elevated Installation >10' To 15', Add	14.09	
For Elevated Installation >15' To 20', Add	28.17	
For Elevated Installation >20' To 25', Add	35.22	
For Elevated Installation >25' To 30', Add	49.30	
For Elevated Installation >30' To 35', Add	56.35	
For Elevated Installation >35' To 40', Add	70.44	
For Elevated Installation >40', Add	77.48	
For Work In Restricted Working Space, Add	42.26	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.26	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1149			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Boxes With Cast Iron Cover (26 05 33 13-0826)		
26 05 33 13-1150	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	218.01 8.45 16.91 21.13 29.59 33.81 42.27 46.49 25.36	42.26
26 05 33 13-1151	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	236.31 9.69 19.37 24.21 33.90 38.74 48.43 53.27 29.06	48.42
26 05 33 13-1152	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	275.66 11.09 22.19 27.74 38.83 44.38 55.47 61.02 33.28	55.47
26 05 33 13-1153	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	386.58 12.86 25.71 32.14 44.99 51.42 64.28 70.70 38.57	64.27
26 05 33 13-1154	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	611.14 14.09 28.17 35.22 49.30 56.35 70.44 77.48 42.26	70.44
26 05 33 13-1155	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	664.53 16.91 33.81 42.26 59.17 67.62 84.53 92.98 50.72	84.53
26 05 33 13-1156			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Boxes With Cast Iron Cover (26 05 33 13-0826)		
26 05 33 13-1157	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Work In Restricted Working Space, Add	236.97 8.45 16.91 21.13 29.59 33.81 42.27 46.49 25.36	42.26

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1158	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	267.94	48.42
			For Elevated Installation >10' To 15', Add	9.69	
			For Elevated Installation >15' To 20', Add	19.37	
			For Elevated Installation >20' To 25', Add	24.21	
			For Elevated Installation >25' To 30', Add	33.90	
			For Elevated Installation >30' To 35', Add	38.74	
			For Elevated Installation >35' To 40', Add	48.43	
			For Elevated Installation >40', Add	53.27	
			For Work In Restricted Working Space, Add	29.06	
26 05 33 13-1159	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	293.70	55.47
			For Elevated Installation >10' To 15', Add	11.09	
			For Elevated Installation >15' To 20', Add	22.19	
			For Elevated Installation >20' To 25', Add	27.74	
			For Elevated Installation >25' To 30', Add	38.83	
			For Elevated Installation >30' To 35', Add	44.38	
			For Elevated Installation >35' To 40', Add	55.47	
			For Elevated Installation >40', Add	61.02	
			For Work In Restricted Working Space, Add	33.28	
26 05 33 13-1160	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	404.91	64.27
			For Elevated Installation >10' To 15', Add	12.86	
			For Elevated Installation >15' To 20', Add	25.71	
			For Elevated Installation >20' To 25', Add	32.14	
			For Elevated Installation >25' To 30', Add	44.99	
			For Elevated Installation >30' To 35', Add	51.42	
			For Elevated Installation >35' To 40', Add	64.28	
			For Elevated Installation >40', Add	70.70	
			For Work In Restricted Working Space, Add	38.57	
26 05 33 13-1161	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	654.88	70.44
			For Elevated Installation >10' To 15', Add	14.09	
			For Elevated Installation >15' To 20', Add	28.17	
			For Elevated Installation >20' To 25', Add	35.22	
			For Elevated Installation >25' To 30', Add	49.30	
			For Elevated Installation >30' To 35', Add	56.35	
			For Elevated Installation >35' To 40', Add	70.44	
			For Elevated Installation >40', Add	77.48	
			For Work In Restricted Working Space, Add	42.26	
26 05 33 13-1162	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover	704.67	84.53
			For Elevated Installation >10' To 15', Add	16.91	
			For Elevated Installation >15' To 20', Add	33.81	
			For Elevated Installation >20' To 25', Add	42.26	
			For Elevated Installation >25' To 30', Add	59.17	
			For Elevated Installation >30' To 35', Add	67.62	
			For Elevated Installation >35' To 40', Add	84.53	
			For Elevated Installation >40', Add	92.98	
			For Work In Restricted Working Space, Add	50.72	
26 05 33 13-1163			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Boxes With Cast Iron Cover (26 05 33 13-0826)		
26 05 33 13-1164	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	237.11	42.26
			For Elevated Installation >10' To 15', Add	8.45	
			For Elevated Installation >15' To 20', Add	16.91	
			For Elevated Installation >20' To 25', Add	21.13	
			For Elevated Installation >25' To 30', Add	29.59	
			For Elevated Installation >30' To 35', Add	33.81	
			For Elevated Installation >35' To 40', Add	42.27	
			For Elevated Installation >40', Add	46.49	
			For Work In Restricted Working Space, Add	25.36	
26 05 33 13-1165	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	262.34	48.42
			For Elevated Installation >10' To 15', Add	9.69	
			For Elevated Installation >15' To 20', Add	19.37	
			For Elevated Installation >20' To 25', Add	24.21	
			For Elevated Installation >25' To 30', Add	33.90	
			For Elevated Installation >30' To 35', Add	38.74	
			For Elevated Installation >35' To 40', Add	48.43	
			For Elevated Installation >40', Add	53.27	
			For Work In Restricted Working Space, Add	29.06	
26 05 33 13-1166	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover	311.12	55.47
			For Elevated Installation >10' To 15', Add	11.09	
			For Elevated Installation >15' To 20', Add	22.19	
			For Elevated Installation >20' To 25', Add	27.74	
			For Elevated Installation >25' To 30', Add	38.83	
			For Elevated Installation >30' To 35', Add	44.38	
			For Elevated Installation >35' To 40', Add	55.47	
			For Elevated Installation >40', Add	61.02	
			For Work In Restricted Working Space, Add	33.28	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1167	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	418.88 12.86 25.71 32.14 44.99 51.42 64.28 70.70 38.57	64.27
26 05 33 13-1168	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	675.72 14.09 28.17 35.22 49.30 56.35 70.44 77.48 42.26	70.44
26 05 33 13-1169	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	730.37 16.91 33.81 42.26 59.17 67.62 84.53 92.98 50.72	84.53
26 05 33 13-1170			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Boxes With Cast Iron Cover (26 05 33 13-0826)		
26 05 33 13-1171	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	289.61 8.45 16.91 21.13 29.59 33.81 42.27 46.49 25.36	42.26
26 05 33 13-1172	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	320.70 9.69 19.37 24.21 33.90 38.74 48.43 53.27 29.06	48.42
26 05 33 13-1173	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	349.07 11.09 22.19 27.74 38.63 44.38 55.47 61.02 33.28	55.47
26 05 33 13-1174	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i>	843.12 12.86 25.71 32.14 44.99 51.42 64.28 70.70 38.57	64.27

26 05 33 13-1175 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Boxes (26 05 33 13-0826)
Note: Excludes cover.

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1176 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box 149.64		42.26
For Elevated Installation >10' To 15', Add	8.45	
For Elevated Installation >15' To 20', Add	16.91	
For Elevated Installation >20' To 25', Add	21.13	
For Elevated Installation >25' To 30', Add	29.59	
For Elevated Installation >30' To 35', Add	33.81	
For Elevated Installation >35' To 40', Add	42.27	
For Elevated Installation >40', Add	46.49	
For Work In Restricted Working Space, Add	25.36	
26 05 33 13-1177 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box 165.48		48.42
For Elevated Installation >10' To 15', Add	9.69	
For Elevated Installation >15' To 20', Add	19.37	
For Elevated Installation >20' To 25', Add	24.21	
For Elevated Installation >25' To 30', Add	33.90	
For Elevated Installation >30' To 35', Add	38.74	
For Elevated Installation >35' To 40', Add	48.43	
For Elevated Installation >40', Add	53.27	
For Work In Restricted Working Space, Add	29.06	
26 05 33 13-1178 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box 185.46		55.47
For Elevated Installation >10' To 15', Add	11.09	
For Elevated Installation >15' To 20', Add	22.19	
For Elevated Installation >20' To 25', Add	27.74	
For Elevated Installation >25' To 30', Add	38.83	
For Elevated Installation >30' To 35', Add	44.38	
For Elevated Installation >35' To 40', Add	55.47	
For Elevated Installation >40', Add	61.02	
For Work In Restricted Working Space, Add	33.28	
26 05 33 13-1179 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box 163.87		42.26
For Elevated Installation >10' To 15', Add	8.45	
For Elevated Installation >15' To 20', Add	16.91	
For Elevated Installation >20' To 25', Add	21.13	
For Elevated Installation >25' To 30', Add	29.59	
For Elevated Installation >30' To 35', Add	33.81	
For Elevated Installation >35' To 40', Add	42.27	
For Elevated Installation >40', Add	46.49	
For Work In Restricted Working Space, Add	25.36	
26 05 33 13-1180 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box 177.93		48.42
For Elevated Installation >10' To 15', Add	9.69	
For Elevated Installation >15' To 20', Add	19.37	
For Elevated Installation >20' To 25', Add	24.21	
For Elevated Installation >25' To 30', Add	33.90	
For Elevated Installation >30' To 35', Add	38.74	
For Elevated Installation >35' To 40', Add	48.43	
For Elevated Installation >40', Add	53.27	
For Work In Restricted Working Space, Add	29.06	
26 05 33 13-1181 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box 202.76		55.47
For Elevated Installation >10' To 15', Add	11.09	
For Elevated Installation >15' To 20', Add	22.19	
For Elevated Installation >20' To 25', Add	27.74	
For Elevated Installation >25' To 30', Add	38.83	
For Elevated Installation >30' To 35', Add	44.38	
For Elevated Installation >35' To 40', Add	55.47	
For Elevated Installation >40', Add	61.02	
For Work In Restricted Working Space, Add	33.28	
26 05 33 13-1182 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Boxes (26 05 33 13-0826)		
Note: Excludes cover.		
26 05 33 13-1183 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box 156.37		42.26
For Elevated Installation >10' To 15', Add	8.45	
For Elevated Installation >15' To 20', Add	16.91	
For Elevated Installation >20' To 25', Add	21.13	
For Elevated Installation >25' To 30', Add	29.59	
For Elevated Installation >30' To 35', Add	33.81	
For Elevated Installation >35' To 40', Add	42.27	
For Elevated Installation >40', Add	46.49	
For Work In Restricted Working Space, Add	25.36	
26 05 33 13-1184 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box 173.06		48.42
For Elevated Installation >10' To 15', Add	9.69	
For Elevated Installation >15' To 20', Add	19.37	
For Elevated Installation >20' To 25', Add	24.21	
For Elevated Installation >25' To 30', Add	33.90	
For Elevated Installation >30' To 35', Add	38.74	
For Elevated Installation >35' To 40', Add	48.43	
For Elevated Installation >40', Add	53.27	
For Work In Restricted Working Space, Add	29.06	
26 05 33 13-1185 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box 190.69		55.47
For Elevated Installation >10' To 15', Add	11.09	
For Elevated Installation >15' To 20', Add	22.19	
For Elevated Installation >20' To 25', Add	27.74	
For Elevated Installation >25' To 30', Add	38.83	
For Elevated Installation >30' To 35', Add	44.38	
For Elevated Installation >35' To 40', Add	55.47	
For Elevated Installation >40', Add	61.02	
For Work In Restricted Working Space, Add	33.28	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1186	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....	173.50	42.26
			For Elevated Installation >10' To 15', Add	8.45	
			For Elevated Installation >15' To 20', Add	16.91	
			For Elevated Installation >20' To 25', Add	21.13	
			For Elevated Installation >25' To 30', Add	29.59	
			For Elevated Installation >30' To 35', Add	33.81	
			For Elevated Installation >35' To 40', Add	42.27	
			For Elevated Installation >40', Add	46.49	
			For Work In Restricted Working Space, Add	25.36	
26 05 33 13-1187	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....	190.35	48.42
			For Elevated Installation >10' To 15', Add	9.69	
			For Elevated Installation >15' To 20', Add	19.37	
			For Elevated Installation >20' To 25', Add	24.21	
			For Elevated Installation >25' To 30', Add	33.90	
			For Elevated Installation >30' To 35', Add	38.74	
			For Elevated Installation >35' To 40', Add	48.43	
			For Elevated Installation >40', Add	53.27	
			For Work In Restricted Working Space, Add	29.06	
26 05 33 13-1188	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....	215.54	55.47
			For Elevated Installation >10' To 15', Add	11.09	
			For Elevated Installation >15' To 20', Add	22.19	
			For Elevated Installation >20' To 25', Add	27.74	
			For Elevated Installation >25' To 30', Add	38.83	
			For Elevated Installation >30' To 35', Add	44.38	
			For Elevated Installation >35' To 40', Add	55.47	
			For Elevated Installation >40', Add	61.02	
			For Work In Restricted Working Space, Add	33.28	
26 05 33 13-1189 Polyvinyl Chloride (PVC) Coated, Urethane Lined, FS And FD Series Covers (26 05 33 13-0826)					
26 05 33 13-1190	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS23, FS And FD Series Cover	50.85	5.28
			For Elevated Installation >10' To 15', Add	1.06	
			For Elevated Installation >15' To 20', Add	2.11	
			For Elevated Installation >20' To 25', Add	2.64	
			For Elevated Installation >25' To 30', Add	3.70	
			For Elevated Installation >30' To 35', Add	4.22	
			For Elevated Installation >35' To 40', Add	5.28	
			For Elevated Installation >40', Add	5.81	
			For Work In Restricted Working Space, Add	3.17	
26 05 33 13-1191	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS21G, FS And FD Series Cover.....	68.68	6.16
			For Elevated Installation >10' To 15', Add	1.23	
			For Elevated Installation >15' To 20', Add	2.47	
			For Elevated Installation >20' To 25', Add	3.08	
			For Elevated Installation >25' To 30', Add	4.32	
			For Elevated Installation >30' To 35', Add	4.93	
			For Elevated Installation >35' To 40', Add	6.17	
			For Elevated Installation >40', Add	6.78	
			For Work In Restricted Working Space, Add	3.70	
26 05 33 13-1192	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS32G, FS And FD Series Cover.....	64.99	6.16
			For Elevated Installation >10' To 15', Add	1.23	
			For Elevated Installation >15' To 20', Add	2.47	
			For Elevated Installation >20' To 25', Add	3.08	
			For Elevated Installation >25' To 30', Add	4.32	
			For Elevated Installation >30' To 35', Add	4.93	
			For Elevated Installation >35' To 40', Add	6.17	
			For Elevated Installation >40', Add	6.78	
			For Work In Restricted Working Space, Add	3.70	
26 05 33 13-1193	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS100G, FS And FD Series Cover.....	58.09	6.16
			For Elevated Installation >10' To 15', Add	1.23	
			For Elevated Installation >15' To 20', Add	2.47	
			For Elevated Installation >20' To 25', Add	3.08	
			For Elevated Installation >25' To 30', Add	4.32	
			For Elevated Installation >30' To 35', Add	4.93	
			For Elevated Installation >35' To 40', Add	6.17	
			For Elevated Installation >40', Add	6.78	
			For Work In Restricted Working Space, Add	3.70	
26 05 33 13-1194	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, WLRD1, FS And FD Series Cover.....	273.32	8.81
			For Elevated Installation >10' To 15', Add	1.76	
			For Elevated Installation >15' To 20', Add	3.52	
			For Elevated Installation >20' To 25', Add	4.40	
			For Elevated Installation >25' To 30', Add	6.16	
			For Elevated Installation >30' To 35', Add	7.04	
			For Elevated Installation >35' To 40', Add	8.81	
			For Elevated Installation >40', Add	9.69	
			For Work In Restricted Working Space, Add	5.28	
26 05 33 13-1195	EA		Polyvinyl Chloride (PVC) Coated, Urethane Lined, WLRS1, FS And FD Series Cover	243.41	8.81
			For Elevated Installation >10' To 15', Add	1.76	
			For Elevated Installation >15' To 20', Add	3.52	
			For Elevated Installation >20' To 25', Add	4.40	
			For Elevated Installation >25' To 30', Add	6.16	
			For Elevated Installation >30' To 35', Add	7.04	
			For Elevated Installation >35' To 40', Add	8.81	
			For Elevated Installation >40', Add	9.69	
			For Work In Restricted Working Space, Add	5.28	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 05 33 13-1196	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Mogul Conduit Bodies (RGS) Mogul Conduit Bodies (26 05 33 13-0626) Note: Includes covers.		
26 05 33 13-1197	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	307.26	55.47
	For Elevated Installation >10' To 15', Add	11.09	
	For Elevated Installation >15' To 20', Add	22.19	
	For Elevated Installation >20' To 25', Add	27.74	
	For Elevated Installation >25' To 30', Add	38.83	
	For Elevated Installation >30' To 35', Add	44.38	
	For Elevated Installation >35' To 40', Add	55.47	
	For Elevated Installation >40', Add	61.02	
	For Work In Restricted Working Space, Add	33.28	
26 05 33 13-1198	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	346.05	64.27
	For Elevated Installation >10' To 15', Add	12.86	
	For Elevated Installation >15' To 20', Add	25.71	
	For Elevated Installation >20' To 25', Add	32.14	
	For Elevated Installation >25' To 30', Add	44.99	
	For Elevated Installation >30' To 35', Add	51.42	
	For Elevated Installation >35' To 40', Add	64.28	
	For Elevated Installation >40', Add	70.70	
	For Work In Restricted Working Space, Add	38.57	
26 05 33 13-1199	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	469.22	70.44
	For Elevated Installation >10' To 15', Add	14.09	
	For Elevated Installation >15' To 20', Add	28.17	
	For Elevated Installation >20' To 25', Add	35.22	
	For Elevated Installation >25' To 30', Add	49.30	
	For Elevated Installation >30' To 35', Add	56.35	
	For Elevated Installation >35' To 40', Add	70.44	
	For Elevated Installation >40', Add	77.48	
	For Work In Restricted Working Space, Add	42.26	
26 05 33 13-1200	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	559.40	84.53
	For Elevated Installation >10' To 15', Add	16.91	
	For Elevated Installation >15' To 20', Add	33.81	
	For Elevated Installation >20' To 25', Add	42.26	
	For Elevated Installation >25' To 30', Add	59.17	
	For Elevated Installation >30' To 35', Add	67.62	
	For Elevated Installation >35' To 40', Add	84.53	
	For Elevated Installation >40', Add	92.98	
	For Work In Restricted Working Space, Add	50.72	
26 05 33 13-1201	EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	806.61	118.86
	For Elevated Installation >10' To 15', Add	23.77	
	For Elevated Installation >15' To 20', Add	47.54	
	For Elevated Installation >20' To 25', Add	59.43	
	For Elevated Installation >25' To 30', Add	83.20	
	For Elevated Installation >30' To 35', Add	95.09	
	For Elevated Installation >35' To 40', Add	118.86	
	For Elevated Installation >40', Add	130.75	
	For Work In Restricted Working Space, Add	71.32	
26 05 33 13-1202	EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	1,021.76	158.48
	For Elevated Installation >10' To 15', Add	31.70	
	For Elevated Installation >15' To 20', Add	63.39	
	For Elevated Installation >20' To 25', Add	79.24	
	For Elevated Installation >25' To 30', Add	110.94	
	For Elevated Installation >30' To 35', Add	126.78	
	For Elevated Installation >35' To 40', Add	158.48	
	For Elevated Installation >40', Add	174.33	
	For Work In Restricted Working Space, Add	95.09	
26 05 33 13-1203	EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	1,481.68	198.10
	For Elevated Installation >10' To 15', Add	39.62	
	For Elevated Installation >15' To 20', Add	79.24	
	For Elevated Installation >20' To 25', Add	99.05	
	For Elevated Installation >25' To 30', Add	138.67	
	For Elevated Installation >30' To 35', Add	158.48	
	For Elevated Installation >35' To 40', Add	198.10	
	For Elevated Installation >40', Add	217.91	
	For Work In Restricted Working Space, Add	118.86	
26 05 33 13-1204	EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body	1,836.35	241.24
	For Elevated Installation >10' To 15', Add	48.25	
	For Elevated Installation >15' To 20', Add	96.50	
	For Elevated Installation >20' To 25', Add	120.62	
	For Elevated Installation >25' To 30', Add	168.87	
	For Elevated Installation >30' To 35', Add	193.00	
	For Elevated Installation >35' To 40', Add	241.25	
	For Elevated Installation >40', Add	265.37	
	For Work In Restricted Working Space, Add	144.75	
26 05 33 13-1205	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	307.26	55.47
	For Elevated Installation >10' To 15', Add	11.09	
	For Elevated Installation >15' To 20', Add	22.19	
	For Elevated Installation >20' To 25', Add	27.74	
	For Elevated Installation >25' To 30', Add	38.83	
	For Elevated Installation >30' To 35', Add	44.38	
	For Elevated Installation >35' To 40', Add	55.47	
	For Elevated Installation >40', Add	61.02	
	For Work In Restricted Working Space, Add	33.28	



Electrical		26
Common Work Results for Electrical		26 05
Raceway and Boxes for Electrical Systems		26 05 33

26

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1206	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body.....	346.05	64.27
		For Elevated Installation >10' To 15', Add	12.86	
		For Elevated Installation >15' To 20', Add	25.71	
		For Elevated Installation >20' To 25', Add	32.14	
		For Elevated Installation >25' To 30', Add	44.99	
		For Elevated Installation >30' To 35', Add	51.42	
		For Elevated Installation >35' To 40', Add	64.28	
		For Elevated Installation >40', Add	70.70	
		For Work In Restricted Working Space, Add	38.57	
26 05 33 13-1207	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body.....	468.01	70.44
		For Elevated Installation >10' To 15', Add	14.09	
		For Elevated Installation >15' To 20', Add	28.17	
		For Elevated Installation >20' To 25', Add	35.22	
		For Elevated Installation >25' To 30', Add	49.30	
		For Elevated Installation >30' To 35', Add	56.35	
		For Elevated Installation >35' To 40', Add	70.44	
		For Elevated Installation >40', Add	77.48	
		For Work In Restricted Working Space, Add	42.26	
26 05 33 13-1208	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	547.22	84.53
		For Elevated Installation >10' To 15', Add	16.91	
		For Elevated Installation >15' To 20', Add	33.81	
		For Elevated Installation >20' To 25', Add	42.26	
		For Elevated Installation >25' To 30', Add	59.17	
		For Elevated Installation >30' To 35', Add	67.62	
		For Elevated Installation >35' To 40', Add	84.53	
		For Elevated Installation >40', Add	92.98	
		For Work In Restricted Working Space, Add	50.72	
26 05 33 13-1209	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	817.83	118.86
		For Elevated Installation >10' To 15', Add	23.77	
		For Elevated Installation >15' To 20', Add	47.54	
		For Elevated Installation >20' To 25', Add	59.43	
		For Elevated Installation >25' To 30', Add	83.20	
		For Elevated Installation >30' To 35', Add	95.09	
		For Elevated Installation >35' To 40', Add	118.86	
		For Elevated Installation >40', Add	130.75	
		For Work In Restricted Working Space, Add	71.32	
26 05 33 13-1210	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	1,072.09	158.48
		For Elevated Installation >10' To 15', Add	31.70	
		For Elevated Installation >15' To 20', Add	63.39	
		For Elevated Installation >20' To 25', Add	79.24	
		For Elevated Installation >25' To 30', Add	110.94	
		For Elevated Installation >30' To 35', Add	126.78	
		For Elevated Installation >35' To 40', Add	158.48	
		For Elevated Installation >40', Add	174.33	
		For Work In Restricted Working Space, Add	95.09	
26 05 33 13-1211	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	1,542.42	198.10
		For Elevated Installation >10' To 15', Add	39.62	
		For Elevated Installation >15' To 20', Add	79.24	
		For Elevated Installation >20' To 25', Add	99.05	
		For Elevated Installation >25' To 30', Add	138.67	
		For Elevated Installation >30' To 35', Add	158.48	
		For Elevated Installation >35' To 40', Add	198.10	
		For Elevated Installation >40', Add	217.91	
		For Work In Restricted Working Space, Add	118.86	
26 05 33 13-1212	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body	1,874.17	241.24
		For Elevated Installation >10' To 15', Add	48.25	
		For Elevated Installation >15' To 20', Add	96.50	
		For Elevated Installation >20' To 25', Add	120.62	
		For Elevated Installation >25' To 30', Add	168.87	
		For Elevated Installation >30' To 35', Add	193.00	
		For Elevated Installation >35' To 40', Add	241.25	
		For Elevated Installation >40', Add	265.37	
		For Work In Restricted Working Space, Add	144.75	
26 05 33 13-1213	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	307.26	55.47
		For Elevated Installation >10' To 15', Add	11.09	
		For Elevated Installation >15' To 20', Add	22.19	
		For Elevated Installation >20' To 25', Add	27.74	
		For Elevated Installation >25' To 30', Add	38.83	
		For Elevated Installation >30' To 35', Add	44.38	
		For Elevated Installation >35' To 40', Add	55.47	
		For Elevated Installation >40', Add	61.02	
		For Work In Restricted Working Space, Add	33.28	
26 05 33 13-1214	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body	346.05	64.27
		For Elevated Installation >10' To 15', Add	12.86	
		For Elevated Installation >15' To 20', Add	25.71	
		For Elevated Installation >20' To 25', Add	32.14	
		For Elevated Installation >25' To 30', Add	44.99	
		For Elevated Installation >30' To 35', Add	51.42	
		For Elevated Installation >35' To 40', Add	64.28	
		For Elevated Installation >40', Add	70.70	
		For Work In Restricted Working Space, Add	38.57	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1215 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body 468.01		70.44
For Elevated Installation >10' To 15', Add	14.09	
For Elevated Installation >15' To 20', Add	28.17	
For Elevated Installation >20' To 25', Add	35.22	
For Elevated Installation >25' To 30', Add	49.30	
For Elevated Installation >30' To 35', Add	56.35	
For Elevated Installation >35' To 40', Add	70.44	
For Elevated Installation >40', Add	77.48	
For Work In Restricted Working Space, Add	42.26	
26 05 33 13-1216 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body 547.22		84.53
For Elevated Installation >10' To 15', Add	16.91	
For Elevated Installation >15' To 20', Add	33.81	
For Elevated Installation >20' To 25', Add	42.26	
For Elevated Installation >25' To 30', Add	59.17	
For Elevated Installation >30' To 35', Add	67.62	
For Elevated Installation >35' To 40', Add	84.53	
For Elevated Installation >40', Add	92.98	
For Work In Restricted Working Space, Add	50.72	
26 05 33 13-1217 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body 817.83		118.86
For Elevated Installation >10' To 15', Add	23.77	
For Elevated Installation >15' To 20', Add	47.54	
For Elevated Installation >20' To 25', Add	59.43	
For Elevated Installation >25' To 30', Add	83.20	
For Elevated Installation >30' To 35', Add	95.09	
For Elevated Installation >35' To 40', Add	118.86	
For Elevated Installation >40', Add	130.75	
For Work In Restricted Working Space, Add	71.32	
26 05 33 13-1218 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body 1,072.09		158.48
For Elevated Installation >10' To 15', Add	31.70	
For Elevated Installation >15' To 20', Add	63.39	
For Elevated Installation >20' To 25', Add	79.24	
For Elevated Installation >25' To 30', Add	110.94	
For Elevated Installation >30' To 35', Add	126.78	
For Elevated Installation >35' To 40', Add	158.48	
For Elevated Installation >40', Add	174.33	
For Work In Restricted Working Space, Add	95.09	
26 05 33 13-1219 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body 1,542.42		198.10
For Elevated Installation >10' To 15', Add	39.62	
For Elevated Installation >15' To 20', Add	79.24	
For Elevated Installation >20' To 25', Add	99.05	
For Elevated Installation >25' To 30', Add	138.67	
For Elevated Installation >30' To 35', Add	158.48	
For Elevated Installation >35' To 40', Add	198.10	
For Elevated Installation >40', Add	217.91	
For Work In Restricted Working Space, Add	118.86	
26 05 33 13-1220 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body 1,874.17		241.24
For Elevated Installation >10' To 15', Add	48.25	
For Elevated Installation >15' To 20', Add	96.50	
For Elevated Installation >20' To 25', Add	120.62	
For Elevated Installation >25' To 30', Add	168.87	
For Elevated Installation >30' To 35', Add	193.00	
For Elevated Installation >35' To 40', Add	241.25	
For Elevated Installation >40', Add	265.37	
For Work In Restricted Working Space, Add	144.75	
26 05 33 13-1221 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body 307.26		55.47
For Elevated Installation >10' To 15', Add	11.09	
For Elevated Installation >15' To 20', Add	22.19	
For Elevated Installation >20' To 25', Add	27.74	
For Elevated Installation >25' To 30', Add	38.83	
For Elevated Installation >30' To 35', Add	44.38	
For Elevated Installation >35' To 40', Add	55.47	
For Elevated Installation >40', Add	61.02	
For Work In Restricted Working Space, Add	33.28	
26 05 33 13-1222 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body 346.05		64.27
For Elevated Installation >10' To 15', Add	12.86	
For Elevated Installation >15' To 20', Add	25.71	
For Elevated Installation >20' To 25', Add	32.14	
For Elevated Installation >25' To 30', Add	44.99	
For Elevated Installation >30' To 35', Add	51.42	
For Elevated Installation >35' To 40', Add	64.28	
For Elevated Installation >40', Add	70.70	
For Work In Restricted Working Space, Add	38.57	
26 05 33 13-1223 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body 469.22		70.44
For Elevated Installation >10' To 15', Add	14.09	
For Elevated Installation >15' To 20', Add	28.17	
For Elevated Installation >20' To 25', Add	35.22	
For Elevated Installation >25' To 30', Add	49.30	
For Elevated Installation >30' To 35', Add	56.35	
For Elevated Installation >35' To 40', Add	70.44	
For Elevated Installation >40', Add	77.48	
For Work In Restricted Working Space, Add	42.26	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1224	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	553.78	84.53
		For Elevated Installation >10' To 15', Add	16.91	
		For Elevated Installation >15' To 20', Add	33.81	
		For Elevated Installation >20' To 25', Add	42.26	
		For Elevated Installation >25' To 30', Add	59.17	
		For Elevated Installation >30' To 35', Add	67.62	
		For Elevated Installation >35' To 40', Add	84.53	
		For Elevated Installation >40', Add	92.98	
		For Work In Restricted Working Space, Add	50.72	
26 05 33 13-1225	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body	806.61	118.86
		For Elevated Installation >10' To 15', Add	23.77	
		For Elevated Installation >15' To 20', Add	47.54	
		For Elevated Installation >20' To 25', Add	59.43	
		For Elevated Installation >25' To 30', Add	83.20	
		For Elevated Installation >30' To 35', Add	95.09	
		For Elevated Installation >35' To 40', Add	118.86	
		For Elevated Installation >40', Add	130.75	
		For Work In Restricted Working Space, Add	71.32	
26 05 33 13-1226	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	1,021.76	158.48
		For Elevated Installation >10' To 15', Add	31.70	
		For Elevated Installation >15' To 20', Add	63.39	
		For Elevated Installation >20' To 25', Add	79.24	
		For Elevated Installation >25' To 30', Add	110.94	
		For Elevated Installation >30' To 35', Add	126.78	
		For Elevated Installation >35' To 40', Add	158.48	
		For Elevated Installation >40', Add	174.33	
		For Work In Restricted Working Space, Add	95.09	
26 05 33 13-1227	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body	1,481.68	198.10
		For Elevated Installation >10' To 15', Add	39.62	
		For Elevated Installation >15' To 20', Add	79.24	
		For Elevated Installation >20' To 25', Add	99.05	
		For Elevated Installation >25' To 30', Add	138.67	
		For Elevated Installation >30' To 35', Add	158.48	
		For Elevated Installation >35' To 40', Add	198.10	
		For Elevated Installation >40', Add	217.91	
		For Work In Restricted Working Space, Add	118.86	
26 05 33 13-1228	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	1,852.10	241.24
		For Elevated Installation >10' To 15', Add	48.25	
		For Elevated Installation >15' To 20', Add	96.50	
		For Elevated Installation >20' To 25', Add	120.62	
		For Elevated Installation >25' To 30', Add	168.87	
		For Elevated Installation >30' To 35', Add	193.00	
		For Elevated Installation >35' To 40', Add	241.25	
		For Elevated Installation >40', Add	265.37	
		For Work In Restricted Working Space, Add	144.75	
26 05 33 13-1229		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Covers (26 05 33 13-0826)		
26 05 33 13-1230	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	143.75	7.93
		For Elevated Installation >10' To 15', Add	1.59	
		For Elevated Installation >15' To 20', Add	3.17	
		For Elevated Installation >20' To 25', Add	3.96	
		For Elevated Installation >25' To 30', Add	5.55	
		For Elevated Installation >30' To 35', Add	6.34	
		For Elevated Installation >35' To 40', Add	7.93	
		For Elevated Installation >40', Add	8.72	
		For Work In Restricted Working Space, Add	4.76	
26 05 33 13-1231	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	145.51	8.81
		For Elevated Installation >10' To 15', Add	1.76	
		For Elevated Installation >15' To 20', Add	3.52	
		For Elevated Installation >20' To 25', Add	4.40	
		For Elevated Installation >25' To 30', Add	6.16	
		For Elevated Installation >30' To 35', Add	7.04	
		For Elevated Installation >35' To 40', Add	8.81	
		For Elevated Installation >40', Add	9.69	
		For Work In Restricted Working Space, Add	5.28	
26 05 33 13-1232	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	205.65	12.33
		For Elevated Installation >10' To 15', Add	2.47	
		For Elevated Installation >15' To 20', Add	4.93	
		For Elevated Installation >20' To 25', Add	6.16	
		For Elevated Installation >25' To 30', Add	8.63	
		For Elevated Installation >30' To 35', Add	9.86	
		For Elevated Installation >35' To 40', Add	12.33	
		For Elevated Installation >40', Add	13.56	
		For Work In Restricted Working Space, Add	7.40	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1233 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover 209.18		14.09
For Elevated Installation >10' To 15', Add	2.82	
For Elevated Installation >15' To 20', Add	5.64	
For Elevated Installation >20' To 25', Add	7.05	
For Elevated Installation >25' To 30', Add	9.86	
For Elevated Installation >30' To 35', Add	11.27	
For Elevated Installation >35' To 40', Add	14.09	
For Elevated Installation >40', Add	15.50	
For Work In Restricted Working Space, Add	8.45	
26 05 33 13-1234 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover 361.91		16.72
For Elevated Installation >10' To 15', Add	3.35	
For Elevated Installation >15' To 20', Add	6.69	
For Elevated Installation >20' To 25', Add	8.37	
For Elevated Installation >25' To 30', Add	11.71	
For Elevated Installation >30' To 35', Add	13.38	
For Elevated Installation >35' To 40', Add	16.73	
For Elevated Installation >40', Add	18.40	
For Work In Restricted Working Space, Add	10.04	
26 05 33 13-1235 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover 370.71		21.13
For Elevated Installation >10' To 15', Add	4.23	
For Elevated Installation >15' To 20', Add	8.45	
For Elevated Installation >20' To 25', Add	10.57	
For Elevated Installation >25' To 30', Add	14.79	
For Elevated Installation >30' To 35', Add	16.90	
For Elevated Installation >35' To 40', Add	21.13	
For Elevated Installation >40', Add	23.24	
For Work In Restricted Working Space, Add	12.68	
26 05 33 13-1236 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover 554.66		23.77
For Elevated Installation >10' To 15', Add	4.76	
For Elevated Installation >15' To 20', Add	9.51	
For Elevated Installation >20' To 25', Add	11.89	
For Elevated Installation >25' To 30', Add	16.64	
For Elevated Installation >30' To 35', Add	19.02	
For Elevated Installation >35' To 40', Add	23.78	
For Elevated Installation >40', Add	26.15	
For Work In Restricted Working Space, Add	14.27	
26 05 33 13-1237 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover 568.74		30.81
For Elevated Installation >10' To 15', Add	6.16	
For Elevated Installation >15' To 20', Add	12.33	
For Elevated Installation >20' To 25', Add	15.41	
For Elevated Installation >25' To 30', Add	21.57	
For Elevated Installation >30' To 35', Add	24.65	
For Elevated Installation >35' To 40', Add	30.82	
For Elevated Installation >40', Add	33.90	
For Work In Restricted Working Space, Add	18.49	
26 05 33 13-1238 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fittings (26 05 33 13-0826)		
26 05 33 13-1239 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....251.39		22.02
For Elevated Installation >10' To 15', Add	4.40	
For Elevated Installation >15' To 20', Add	8.80	
For Elevated Installation >20' To 25', Add	11.01	
For Elevated Installation >25' To 30', Add	15.41	
For Elevated Installation >30' To 35', Add	17.61	
For Elevated Installation >35' To 40', Add	22.01	
For Elevated Installation >40', Add	24.21	
For Work In Restricted Working Space, Add	13.21	
26 05 33 13-1240 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....297.60		27.30
For Elevated Installation >10' To 15', Add	5.46	
For Elevated Installation >15' To 20', Add	10.92	
For Elevated Installation >20' To 25', Add	13.65	
For Elevated Installation >25' To 30', Add	19.10	
For Elevated Installation >30' To 35', Add	21.83	
For Elevated Installation >35' To 40', Add	27.29	
For Elevated Installation >40', Add	30.02	
For Work In Restricted Working Space, Add	16.37	
26 05 33 13-1241 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....352.80		33.46
For Elevated Installation >10' To 15', Add	6.69	
For Elevated Installation >15' To 20', Add	13.38	
For Elevated Installation >20' To 25', Add	16.73	
For Elevated Installation >25' To 30', Add	23.42	
For Elevated Installation >30' To 35', Add	26.76	
For Elevated Installation >35' To 40', Add	33.46	
For Elevated Installation >40', Add	36.80	
For Work In Restricted Working Space, Add	20.07	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1242	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	433.50	38.74
			For Elevated Installation >10' To 15', Add	7.75	
			For Elevated Installation >15' To 20', Add	15.50	
			For Elevated Installation >20' To 25', Add	19.37	
			For Elevated Installation >25' To 30', Add	27.12	
			For Elevated Installation >30' To 35', Add	30.99	
			For Elevated Installation >35' To 40', Add	38.74	
			For Elevated Installation >40', Add	42.61	
			For Work In Restricted Working Space, Add	23.24	
26 05 33 13-1243	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	575.95	44.02
			For Elevated Installation >10' To 15', Add	8.80	
			For Elevated Installation >15' To 20', Add	17.61	
			For Elevated Installation >20' To 25', Add	22.01	
			For Elevated Installation >25' To 30', Add	30.81	
			For Elevated Installation >30' To 35', Add	35.22	
			For Elevated Installation >35' To 40', Add	44.02	
			For Elevated Installation >40', Add	48.42	
			For Work In Restricted Working Space, Add	26.41	
26 05 33 13-1244	EA	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	791.69	48.42
			For Elevated Installation >10' To 15', Add	9.69	
			For Elevated Installation >15' To 20', Add	19.37	
			For Elevated Installation >20' To 25', Add	24.21	
			For Elevated Installation >25' To 30', Add	33.90	
			For Elevated Installation >30' To 35', Add	38.74	
			For Elevated Installation >35' To 40', Add	48.43	
			For Elevated Installation >40', Add	53.27	
			For Work In Restricted Working Space, Add	29.06	
26 05 33 13-1245	EA	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,126.82	60.75
			For Elevated Installation >10' To 15', Add	12.15	
			For Elevated Installation >15' To 20', Add	24.30	
			For Elevated Installation >20' To 25', Add	30.38	
			For Elevated Installation >25' To 30', Add	42.53	
			For Elevated Installation >30' To 35', Add	48.60	
			For Elevated Installation >35' To 40', Add	60.75	
			For Elevated Installation >40', Add	66.83	
			For Work In Restricted Working Space, Add	36.45	
26 05 33 13-1246	EA	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,404.43	82.76
			For Elevated Installation >10' To 15', Add	16.55	
			For Elevated Installation >15' To 20', Add	33.10	
			For Elevated Installation >20' To 25', Add	41.38	
			For Elevated Installation >25' To 30', Add	57.93	
			For Elevated Installation >30' To 35', Add	66.21	
			For Elevated Installation >35' To 40', Add	82.76	
			For Elevated Installation >40', Add	91.04	
			For Work In Restricted Working Space, Add	49.66	
26 05 33 13-1247	EA	3-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,960.06	93.32
			For Elevated Installation >10' To 15', Add	18.67	
			For Elevated Installation >15' To 20', Add	37.33	
			For Elevated Installation >20' To 25', Add	46.67	
			For Elevated Installation >25' To 30', Add	65.33	
			For Elevated Installation >30' To 35', Add	74.66	
			For Elevated Installation >35' To 40', Add	93.33	
			For Elevated Installation >40', Add	102.66	
			For Work In Restricted Working Space, Add	56.00	
26 05 33 13-1248	EA	4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	2,265.40	121.50
			For Elevated Installation >10' To 15', Add	24.30	
			For Elevated Installation >15' To 20', Add	48.60	
			For Elevated Installation >20' To 25', Add	60.75	
			For Elevated Installation >25' To 30', Add	85.05	
			For Elevated Installation >30' To 35', Add	97.20	
			For Elevated Installation >35' To 40', Add	121.50	
			For Elevated Installation >40', Add	133.65	
			For Work In Restricted Working Space, Add	72.90	
26 05 33 13-1249			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fittings With Bonding Jumper (26 05 33 13-0826)		
26 05 33 13-1250	EA	1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	393.46	22.02
			For Elevated Installation >10' To 15', Add	4.40	
			For Elevated Installation >15' To 20', Add	8.80	
			For Elevated Installation >20' To 25', Add	11.01	
			For Elevated Installation >25' To 30', Add	15.41	
			For Elevated Installation >30' To 35', Add	17.61	
			For Elevated Installation >35' To 40', Add	22.01	
			For Elevated Installation >40', Add	24.21	
			For Work In Restricted Working Space, Add	13.21	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1251	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	410.60	27.30
			For Elevated Installation >10' To 15', Add	5.46	
			For Elevated Installation >15' To 20', Add	10.92	
			For Elevated Installation >20' To 25', Add	13.65	
			For Elevated Installation >25' To 30', Add	19.10	
			For Elevated Installation >30' To 35', Add	21.83	
			For Elevated Installation >35' To 40', Add	27.29	
			For Elevated Installation >40', Add	30.02	
			For Work In Restricted Working Space, Add	16.37	
26 05 33 13-1252	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	462.45	33.46
			For Elevated Installation >10' To 15', Add	6.69	
			For Elevated Installation >15' To 20', Add	13.38	
			For Elevated Installation >20' To 25', Add	16.73	
			For Elevated Installation >25' To 30', Add	23.42	
			For Elevated Installation >30' To 35', Add	26.76	
			For Elevated Installation >35' To 40', Add	33.46	
			For Elevated Installation >40', Add	36.80	
			For Work In Restricted Working Space, Add	20.07	
26 05 33 13-1253	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	558.80	38.74
			For Elevated Installation >10' To 15', Add	7.75	
			For Elevated Installation >15' To 20', Add	15.50	
			For Elevated Installation >20' To 25', Add	19.37	
			For Elevated Installation >25' To 30', Add	27.12	
			For Elevated Installation >30' To 35', Add	30.99	
			For Elevated Installation >35' To 40', Add	38.74	
			For Elevated Installation >40', Add	42.61	
			For Work In Restricted Working Space, Add	23.24	
26 05 33 13-1254	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	675.99	44.02
			For Elevated Installation >10' To 15', Add	8.80	
			For Elevated Installation >15' To 20', Add	17.61	
			For Elevated Installation >20' To 25', Add	22.01	
			For Elevated Installation >25' To 30', Add	30.81	
			For Elevated Installation >30' To 35', Add	35.22	
			For Elevated Installation >35' To 40', Add	44.02	
			For Elevated Installation >40', Add	48.42	
			For Work In Restricted Working Space, Add	26.41	
26 05 33 13-1255	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	860.57	48.42
			For Elevated Installation >10' To 15', Add	9.69	
			For Elevated Installation >15' To 20', Add	19.37	
			For Elevated Installation >20' To 25', Add	24.21	
			For Elevated Installation >25' To 30', Add	33.90	
			For Elevated Installation >30' To 35', Add	38.74	
			For Elevated Installation >35' To 40', Add	48.43	
			For Elevated Installation >40', Add	53.27	
			For Work In Restricted Working Space, Add	29.06	
26 05 33 13-1256	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	1,265.55	60.75
			For Elevated Installation >10' To 15', Add	12.15	
			For Elevated Installation >15' To 20', Add	24.30	
			For Elevated Installation >20' To 25', Add	30.38	
			For Elevated Installation >25' To 30', Add	42.53	
			For Elevated Installation >30' To 35', Add	48.60	
			For Elevated Installation >35' To 40', Add	60.75	
			For Elevated Installation >40', Add	66.83	
			For Work In Restricted Working Space, Add	36.45	
26 05 33 13-1257	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	1,589.82	82.76
			For Elevated Installation >10' To 15', Add	16.55	
			For Elevated Installation >15' To 20', Add	33.10	
			For Elevated Installation >20' To 25', Add	41.38	
			For Elevated Installation >25' To 30', Add	57.93	
			For Elevated Installation >30' To 35', Add	66.21	
			For Elevated Installation >35' To 40', Add	82.76	
			For Elevated Installation >40', Add	91.04	
			For Work In Restricted Working Space, Add	49.66	
26 05 33 13-1258	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	2,019.91	93.32
			For Elevated Installation >10' To 15', Add	18.67	
			For Elevated Installation >15' To 20', Add	37.33	
			For Elevated Installation >20' To 25', Add	46.67	
			For Elevated Installation >25' To 30', Add	65.33	
			For Elevated Installation >30' To 35', Add	74.66	
			For Elevated Installation >35' To 40', Add	93.33	
			For Elevated Installation >40', Add	102.66	
			For Work In Restricted Working Space, Add	56.00	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1259	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	2,530.48	121.50
			For Elevated Installation >10' To 15', Add	24.30	
			For Elevated Installation >15' To 20', Add	48.60	
			For Elevated Installation >20' To 25', Add	60.75	
			For Elevated Installation >25' To 30', Add	85.05	
			For Elevated Installation >30' To 35', Add	97.20	
			For Elevated Installation >35' To 40', Add	121.50	
			For Elevated Installation >40', Add	133.65	
			For Work In Restricted Working Space, Add	72.90	
26 05 33 13-1260			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STG Knockout Hubs (26 05 33 13-0826)		
26 05 33 13-1261	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	84.58	10.56
			For Elevated Installation >10' To 15', Add	2.11	
			For Elevated Installation >15' To 20', Add	4.23	
			For Elevated Installation >20' To 25', Add	5.28	
			For Elevated Installation >25' To 30', Add	7.40	
			For Elevated Installation >30' To 35', Add	8.45	
			For Elevated Installation >35' To 40', Add	10.57	
			For Elevated Installation >40', Add	11.62	
			For Work In Restricted Working Space, Add	6.34	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.34	
26 05 33 13-1262	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	92.53	13.21
			For Elevated Installation >10' To 15', Add	2.64	
			For Elevated Installation >15' To 20', Add	5.28	
			For Elevated Installation >20' To 25', Add	6.60	
			For Elevated Installation >25' To 30', Add	9.24	
			For Elevated Installation >30' To 35', Add	10.56	
			For Elevated Installation >35' To 40', Add	13.21	
			For Elevated Installation >40', Add	14.53	
			For Work In Restricted Working Space, Add	7.92	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.92	
26 05 33 13-1263	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	102.43	15.85
			For Elevated Installation >10' To 15', Add	3.17	
			For Elevated Installation >15' To 20', Add	6.34	
			For Elevated Installation >20' To 25', Add	7.93	
			For Elevated Installation >25' To 30', Add	11.10	
			For Elevated Installation >30' To 35', Add	12.68	
			For Elevated Installation >35' To 40', Add	15.85	
			For Elevated Installation >40', Add	17.44	
			For Work In Restricted Working Space, Add	9.51	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.51	
26 05 33 13-1264	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	116.56	19.37
			For Elevated Installation >10' To 15', Add	3.87	
			For Elevated Installation >15' To 20', Add	7.75	
			For Elevated Installation >20' To 25', Add	9.69	
			For Elevated Installation >25' To 30', Add	13.56	
			For Elevated Installation >30' To 35', Add	15.50	
			For Elevated Installation >35' To 40', Add	19.37	
			For Elevated Installation >40', Add	21.31	
			For Work In Restricted Working Space, Add	11.62	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.62	
26 05 33 13-1265	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	154.87	22.02
			For Elevated Installation >10' To 15', Add	4.40	
			For Elevated Installation >15' To 20', Add	8.80	
			For Elevated Installation >20' To 25', Add	11.01	
			For Elevated Installation >25' To 30', Add	15.41	
			For Elevated Installation >30' To 35', Add	17.61	
			For Elevated Installation >35' To 40', Add	22.01	
			For Elevated Installation >40', Add	24.21	
			For Work In Restricted Working Space, Add	13.21	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.21	
26 05 33 13-1266	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	188.18	24.65
			For Elevated Installation >10' To 15', Add	4.93	
			For Elevated Installation >15' To 20', Add	9.86	
			For Elevated Installation >20' To 25', Add	12.33	
			For Elevated Installation >25' To 30', Add	17.26	
			For Elevated Installation >30' To 35', Add	19.72	
			For Elevated Installation >35' To 40', Add	24.65	
			For Elevated Installation >40', Add	27.12	
			For Work In Restricted Working Space, Add	14.79	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.79	
26 05 33 13-1267	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	267.26	30.81
			For Elevated Installation >10' To 15', Add	6.16	
			For Elevated Installation >15' To 20', Add	12.33	
			For Elevated Installation >20' To 25', Add	15.41	
			For Elevated Installation >25' To 30', Add	21.57	
			For Elevated Installation >30' To 35', Add	24.65	
			For Elevated Installation >35' To 40', Add	30.82	
			For Elevated Installation >40', Add	33.90	
			For Work In Restricted Working Space, Add	18.49	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.49	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1268	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	349.45	41.38
			For Elevated Installation >10' To 15', Add	8.28	
			For Elevated Installation >15' To 20', Add	16.55	
			For Elevated Installation >20' To 25', Add	20.69	
			For Elevated Installation >25' To 30', Add	28.97	
			For Elevated Installation >30' To 35', Add	33.10	
			For Elevated Installation >35' To 40', Add	41.38	
			For Elevated Installation >40', Add	45.52	
			For Work In Restricted Working Space, Add	24.83	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.83	
26 05 33 13-1269	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	443.26	46.67
			For Elevated Installation >10' To 15', Add	9.33	
			For Elevated Installation >15' To 20', Add	18.66	
			For Elevated Installation >20' To 25', Add	23.33	
			For Elevated Installation >25' To 30', Add	32.66	
			For Elevated Installation >30' To 35', Add	37.33	
			For Elevated Installation >35' To 40', Add	46.66	
			For Elevated Installation >40', Add	51.33	
			For Work In Restricted Working Space, Add	28.00	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.00	
26 05 33 13-1270	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	558.48	60.75
			For Elevated Installation >10' To 15', Add	12.15	
			For Elevated Installation >15' To 20', Add	24.30	
			For Elevated Installation >20' To 25', Add	30.38	
			For Elevated Installation >25' To 30', Add	42.53	
			For Elevated Installation >30' To 35', Add	48.60	
			For Elevated Installation >35' To 40', Add	60.75	
			For Elevated Installation >40', Add	66.83	
			For Work In Restricted Working Space, Add	36.45	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.45	
26 05 33 13-1271	EA		5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	705.41	98.60
			For Elevated Installation >10' To 15', Add	19.72	
			For Elevated Installation >15' To 20', Add	39.44	
			For Elevated Installation >20' To 25', Add	49.31	
			For Elevated Installation >25' To 30', Add	69.03	
			For Elevated Installation >30' To 35', Add	78.89	
			For Elevated Installation >35' To 40', Add	98.61	
			For Elevated Installation >40', Add	108.47	
			For Work In Restricted Working Space, Add	59.17	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.17	
26 05 33 13-1272	EA		6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub	1,063.91	148.80
			For Elevated Installation >10' To 15', Add	29.76	
			For Elevated Installation >15' To 20', Add	59.52	
			For Elevated Installation >20' To 25', Add	74.40	
			For Elevated Installation >25' To 30', Add	104.16	
			For Elevated Installation >30' To 35', Add	119.04	
			For Elevated Installation >35' To 40', Add	148.80	
			For Elevated Installation >40', Add	163.67	
			For Work In Restricted Working Space, Add	89.28	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	89.28	
26 05 33 13-1273 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel					
(RGS), STTB Knockout Hubs (26 05 33 13-0826)					
26 05 33 13-1274	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	124.94	10.56
			For Elevated Installation >10' To 15', Add	2.11	
			For Elevated Installation >15' To 20', Add	4.23	
			For Elevated Installation >20' To 25', Add	5.28	
			For Elevated Installation >25' To 30', Add	7.40	
			For Elevated Installation >30' To 35', Add	8.45	
			For Elevated Installation >35' To 40', Add	10.57	
			For Elevated Installation >40', Add	11.62	
			For Work In Restricted Working Space, Add	6.34	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.34	
26 05 33 13-1275	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	133.18	13.21
			For Elevated Installation >10' To 15', Add	2.64	
			For Elevated Installation >15' To 20', Add	5.28	
			For Elevated Installation >20' To 25', Add	6.60	
			For Elevated Installation >25' To 30', Add	9.24	
			For Elevated Installation >30' To 35', Add	10.56	
			For Elevated Installation >35' To 40', Add	13.21	
			For Elevated Installation >40', Add	14.53	
			For Work In Restricted Working Space, Add	7.92	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.92	
26 05 33 13-1276	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	143.97	15.85
			For Elevated Installation >10' To 15', Add	3.17	
			For Elevated Installation >15' To 20', Add	6.34	
			For Elevated Installation >20' To 25', Add	7.93	
			For Elevated Installation >25' To 30', Add	11.10	
			For Elevated Installation >30' To 35', Add	12.68	
			For Elevated Installation >35' To 40', Add	15.85	
			For Elevated Installation >40', Add	17.44	
			For Work In Restricted Working Space, Add	9.51	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.51	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1277	EA	1-1/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	165.00 3.87 7.75 9.69 13.56 15.50 19.37 21.31 11.62 11.62	19.37
26 05 33 13-1278	EA	1-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	177.74 4.40 8.80 11.01 15.41 17.61 22.01 24.21 13.21 13.21	22.02
26 05 33 13-1279	EA	2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	200.92 4.93 9.86 12.33 17.26 19.72 24.65 27.12 14.79 14.79	24.65
26 05 33 13-1280	EA	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	303.01 6.16 12.33 15.41 21.57 24.65 30.82 33.90 18.49 18.49	30.81
26 05 33 13-1281	EA	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	364.86 8.28 16.55 20.69 28.97 33.10 41.38 45.52 24.83 24.83	41.38
26 05 33 13-1282	EA	3-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	446.59 9.33 18.66 23.33 32.66 37.33 46.66 51.33 28.00 28.00	46.67
26 05 33 13-1283	EA	4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	579.98 12.15 24.30 30.38 42.53 48.60 60.75 66.83 36.45 36.45	60.75
26 05 33 13-1284	EA	5"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	904.20 19.72 39.44 49.31 69.03 78.89 98.61 108.47 59.17 59.17	98.60

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1285 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	1,473.56	148.80
For Elevated Installation >10' To 15', Add	29.76	
For Elevated Installation >15' To 20', Add	59.52	
For Elevated Installation >20' To 25', Add	74.40	
For Elevated Installation >25' To 30', Add	104.16	
For Elevated Installation >30' To 35', Add	119.04	
For Elevated Installation >35' To 40', Add	148.80	
For Elevated Installation >40', Add	163.67	
For Work In Restricted Working Space, Add	89.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	89.28	
26 05 33 13-1286 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STTB Knockout Hubs (26 05 33 13-0826)		
26 05 33 13-1287 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	133.91	10.56
For Elevated Installation >10' To 15', Add	2.11	
For Elevated Installation >15' To 20', Add	4.23	
For Elevated Installation >20' To 25', Add	5.28	
For Elevated Installation >25' To 30', Add	7.40	
For Elevated Installation >30' To 35', Add	8.45	
For Elevated Installation >35' To 40', Add	10.57	
For Elevated Installation >40', Add	11.62	
For Work In Restricted Working Space, Add	6.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.34	
26 05 33 13-1288 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	141.70	13.21
For Elevated Installation >10' To 15', Add	2.64	
For Elevated Installation >15' To 20', Add	5.28	
For Elevated Installation >20' To 25', Add	6.60	
For Elevated Installation >25' To 30', Add	9.24	
For Elevated Installation >30' To 35', Add	10.56	
For Elevated Installation >35' To 40', Add	13.21	
For Elevated Installation >40', Add	14.53	
For Work In Restricted Working Space, Add	7.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.92	
26 05 33 13-1289 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	152.87	15.85
For Elevated Installation >10' To 15', Add	3.17	
For Elevated Installation >15' To 20', Add	6.34	
For Elevated Installation >20' To 25', Add	7.93	
For Elevated Installation >25' To 30', Add	11.10	
For Elevated Installation >30' To 35', Add	12.68	
For Elevated Installation >35' To 40', Add	15.85	
For Elevated Installation >40', Add	17.44	
For Work In Restricted Working Space, Add	9.51	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.51	
26 05 33 13-1290 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	192.02	19.37
For Elevated Installation >10' To 15', Add	3.87	
For Elevated Installation >15' To 20', Add	7.75	
For Elevated Installation >20' To 25', Add	9.69	
For Elevated Installation >25' To 30', Add	13.56	
For Elevated Installation >30' To 35', Add	15.50	
For Elevated Installation >35' To 40', Add	19.37	
For Elevated Installation >40', Add	21.31	
For Work In Restricted Working Space, Add	11.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.62	
26 05 33 13-1291 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	210.35	22.02
For Elevated Installation >10' To 15', Add	4.40	
For Elevated Installation >15' To 20', Add	8.80	
For Elevated Installation >20' To 25', Add	11.01	
For Elevated Installation >25' To 30', Add	15.41	
For Elevated Installation >30' To 35', Add	17.61	
For Elevated Installation >35' To 40', Add	22.01	
For Elevated Installation >40', Add	24.21	
For Work In Restricted Working Space, Add	13.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.21	
26 05 33 13-1292 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub	223.43	24.65
For Elevated Installation >10' To 15', Add	4.93	
For Elevated Installation >15' To 20', Add	9.86	
For Elevated Installation >20' To 25', Add	12.33	
For Elevated Installation >25' To 30', Add	17.26	
For Elevated Installation >30' To 35', Add	19.72	
For Elevated Installation >35' To 40', Add	24.65	
For Elevated Installation >40', Add	27.12	
For Work In Restricted Working Space, Add	14.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.79	

26 05 33 13-1293 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNF Conduit Unions (26 05 33 13-0826)



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1294	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	106.28	22.02
			For Elevated Installation >10' To 15', Add	4.40	
			For Elevated Installation >15' To 20', Add	8.80	
			For Elevated Installation >20' To 25', Add	11.01	
			For Elevated Installation >25' To 30', Add	15.41	
			For Elevated Installation >30' To 35', Add	17.61	
			For Elevated Installation >35' To 40', Add	22.01	
			For Elevated Installation >40', Add	24.21	
			For Work In Restricted Working Space, Add	13.21	
26 05 33	13-1295	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	117.98	27.30
			For Elevated Installation >10' To 15', Add	5.46	
			For Elevated Installation >15' To 20', Add	10.92	
			For Elevated Installation >20' To 25', Add	13.65	
			For Elevated Installation >25' To 30', Add	19.10	
			For Elevated Installation >30' To 35', Add	21.83	
			For Elevated Installation >35' To 40', Add	27.29	
			For Elevated Installation >40', Add	30.02	
			For Work In Restricted Working Space, Add	16.37	
26 05 33	13-1296	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	151.90	33.46
			For Elevated Installation >10' To 15', Add	6.69	
			For Elevated Installation >15' To 20', Add	13.38	
			For Elevated Installation >20' To 25', Add	16.73	
			For Elevated Installation >25' To 30', Add	23.42	
			For Elevated Installation >30' To 35', Add	26.76	
			For Elevated Installation >35' To 40', Add	33.46	
			For Elevated Installation >40', Add	36.80	
			For Work In Restricted Working Space, Add	20.07	
26 05 33	13-1297	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	214.26	38.74
			For Elevated Installation >10' To 15', Add	7.75	
			For Elevated Installation >15' To 20', Add	15.50	
			For Elevated Installation >20' To 25', Add	19.37	
			For Elevated Installation >25' To 30', Add	27.12	
			For Elevated Installation >30' To 35', Add	30.99	
			For Elevated Installation >35' To 40', Add	38.74	
			For Elevated Installation >40', Add	42.61	
			For Work In Restricted Working Space, Add	23.24	
26 05 33	13-1298	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	253.02	44.02
			For Elevated Installation >10' To 15', Add	8.80	
			For Elevated Installation >15' To 20', Add	17.61	
			For Elevated Installation >20' To 25', Add	22.01	
			For Elevated Installation >25' To 30', Add	30.81	
			For Elevated Installation >30' To 35', Add	35.22	
			For Elevated Installation >35' To 40', Add	44.02	
			For Elevated Installation >40', Add	48.42	
			For Work In Restricted Working Space, Add	26.41	
26 05 33	13-1299	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	316.72	48.42
			For Elevated Installation >10' To 15', Add	9.69	
			For Elevated Installation >15' To 20', Add	19.37	
			For Elevated Installation >20' To 25', Add	24.21	
			For Elevated Installation >25' To 30', Add	33.90	
			For Elevated Installation >30' To 35', Add	38.74	
			For Elevated Installation >35' To 40', Add	48.43	
			For Elevated Installation >40', Add	53.27	
			For Work In Restricted Working Space, Add	29.06	
26 05 33	13-1300	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	419.16	60.75
			For Elevated Installation >10' To 15', Add	12.15	
			For Elevated Installation >15' To 20', Add	24.30	
			For Elevated Installation >20' To 25', Add	30.38	
			For Elevated Installation >25' To 30', Add	42.53	
			For Elevated Installation >30' To 35', Add	48.60	
			For Elevated Installation >35' To 40', Add	60.75	
			For Elevated Installation >40', Add	66.83	
			For Work In Restricted Working Space, Add	36.45	
26 05 33	13-1301	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	531.87	60.75
			For Elevated Installation >10' To 15', Add	12.15	
			For Elevated Installation >15' To 20', Add	24.30	
			For Elevated Installation >20' To 25', Add	30.38	
			For Elevated Installation >25' To 30', Add	42.53	
			For Elevated Installation >30' To 35', Add	48.60	
			For Elevated Installation >35' To 40', Add	60.75	
			For Elevated Installation >40', Add	66.83	
			For Work In Restricted Working Space, Add	36.45	
26 05 33	13-1302	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	695.70	93.32
			For Elevated Installation >10' To 15', Add	18.67	
			For Elevated Installation >15' To 20', Add	37.33	
			For Elevated Installation >20' To 25', Add	46.67	
			For Elevated Installation >25' To 30', Add	65.33	
			For Elevated Installation >30' To 35', Add	74.66	
			For Elevated Installation >35' To 40', Add	93.33	
			For Elevated Installation >40', Add	102.66	
			For Work In Restricted Working Space, Add	56.00	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1303 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	896.61	121.50
For Elevated Installation >10' To 15', Add	24.30	
For Elevated Installation >15' To 20', Add	48.60	
For Elevated Installation >20' To 25', Add	60.75	
For Elevated Installation >25' To 30', Add	85.05	
For Elevated Installation >30' To 35', Add	97.20	
For Elevated Installation >35' To 40', Add	121.50	
For Elevated Installation >40', Add	133.65	
For Work In Restricted Working Space, Add	72.90	
26 05 33 13-1304 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	1,617.88	198.10
For Elevated Installation >10' To 15', Add	39.62	
For Elevated Installation >15' To 20', Add	79.24	
For Elevated Installation >20' To 25', Add	99.05	
For Elevated Installation >25' To 30', Add	138.67	
For Elevated Installation >30' To 35', Add	158.48	
For Elevated Installation >35' To 40', Add	198.10	
For Elevated Installation >40', Add	217.91	
For Work In Restricted Working Space, Add	118.86	
26 05 33 13-1305 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union	2,050.19	297.59
For Elevated Installation >10' To 15', Add	59.52	
For Elevated Installation >15' To 20', Add	119.04	
For Elevated Installation >20' To 25', Add	148.80	
For Elevated Installation >25' To 30', Add	208.31	
For Elevated Installation >30' To 35', Add	238.07	
For Elevated Installation >35' To 40', Add	297.59	
For Elevated Installation >40', Add	327.35	
For Work In Restricted Working Space, Add	178.55	
26 05 33 13-1306 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNY Conduit Unions (26 05 33 13-0826)		
26 05 33 13-1307 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	108.38	22.02
For Elevated Installation >10' To 15', Add	4.40	
For Elevated Installation >15' To 20', Add	8.80	
For Elevated Installation >20' To 25', Add	11.01	
For Elevated Installation >25' To 30', Add	15.41	
For Elevated Installation >30' To 35', Add	17.61	
For Elevated Installation >35' To 40', Add	22.01	
For Elevated Installation >40', Add	24.21	
For Work In Restricted Working Space, Add	13.21	
26 05 33 13-1308 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	125.99	27.30
For Elevated Installation >10' To 15', Add	5.46	
For Elevated Installation >15' To 20', Add	10.92	
For Elevated Installation >20' To 25', Add	13.65	
For Elevated Installation >25' To 30', Add	19.10	
For Elevated Installation >30' To 35', Add	21.83	
For Elevated Installation >35' To 40', Add	27.29	
For Elevated Installation >40', Add	30.02	
For Work In Restricted Working Space, Add	16.37	
26 05 33 13-1309 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	156.17	33.46
For Elevated Installation >10' To 15', Add	6.69	
For Elevated Installation >15' To 20', Add	13.38	
For Elevated Installation >20' To 25', Add	16.73	
For Elevated Installation >25' To 30', Add	23.42	
For Elevated Installation >30' To 35', Add	26.76	
For Elevated Installation >35' To 40', Add	33.46	
For Elevated Installation >40', Add	36.80	
For Work In Restricted Working Space, Add	20.07	
26 05 33 13-1310 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	222.10	38.74
For Elevated Installation >10' To 15', Add	7.75	
For Elevated Installation >15' To 20', Add	15.50	
For Elevated Installation >20' To 25', Add	19.37	
For Elevated Installation >25' To 30', Add	27.12	
For Elevated Installation >30' To 35', Add	30.99	
For Elevated Installation >35' To 40', Add	38.74	
For Elevated Installation >40', Add	42.61	
For Work In Restricted Working Space, Add	23.24	
26 05 33 13-1311 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	263.90	44.02
For Elevated Installation >10' To 15', Add	8.80	
For Elevated Installation >15' To 20', Add	17.61	
For Elevated Installation >20' To 25', Add	22.01	
For Elevated Installation >25' To 30', Add	30.81	
For Elevated Installation >30' To 35', Add	35.22	
For Elevated Installation >35' To 40', Add	44.02	
For Elevated Installation >40', Add	48.42	
For Work In Restricted Working Space, Add	26.41	
26 05 33 13-1312 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union	340.21	48.42
For Elevated Installation >10' To 15', Add	9.69	
For Elevated Installation >15' To 20', Add	19.37	
For Elevated Installation >20' To 25', Add	24.21	
For Elevated Installation >25' To 30', Add	33.90	
For Elevated Installation >30' To 35', Add	38.74	
For Elevated Installation >35' To 40', Add	48.43	
For Elevated Installation >40', Add	53.27	
For Work In Restricted Working Space, Add	29.06	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1313	EA	2-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	469.44	60.75
			For Elevated Installation >10' To 15', Add	12.15	
			For Elevated Installation >15' To 20', Add	24.30	
			For Elevated Installation >20' To 25', Add	30.38	
			For Elevated Installation >25' To 30', Add	42.53	
			For Elevated Installation >30' To 35', Add	48.60	
			For Elevated Installation >35' To 40', Add	60.75	
			For Elevated Installation >40', Add	66.83	
			For Work In Restricted Working Space, Add	36.45	
26 05 33 13-1314	EA	3"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	582.99	60.75
			For Elevated Installation >10' To 15', Add	12.15	
			For Elevated Installation >15' To 20', Add	24.30	
			For Elevated Installation >20' To 25', Add	30.38	
			For Elevated Installation >25' To 30', Add	42.53	
			For Elevated Installation >30' To 35', Add	48.60	
			For Elevated Installation >35' To 40', Add	60.75	
			For Elevated Installation >40', Add	66.83	
			For Work In Restricted Working Space, Add	36.45	
26 05 33 13-1315	EA	3-1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	788.12	93.32
			For Elevated Installation >10' To 15', Add	18.67	
			For Elevated Installation >15' To 20', Add	37.33	
			For Elevated Installation >20' To 25', Add	46.67	
			For Elevated Installation >25' To 30', Add	65.33	
			For Elevated Installation >30' To 35', Add	74.66	
			For Elevated Installation >35' To 40', Add	93.33	
			For Elevated Installation >40', Add	102.66	
			For Work In Restricted Working Space, Add	56.00	
26 05 33 13-1316	EA	4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	988.69	121.50
			For Elevated Installation >10' To 15', Add	24.30	
			For Elevated Installation >15' To 20', Add	48.60	
			For Elevated Installation >20' To 25', Add	60.75	
			For Elevated Installation >25' To 30', Add	85.05	
			For Elevated Installation >30' To 35', Add	97.20	
			For Elevated Installation >35' To 40', Add	121.50	
			For Elevated Installation >40', Add	133.65	
			For Work In Restricted Working Space, Add	72.90	
26 05 33 13-1317	EA	5"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	1,786.68	198.10
			For Elevated Installation >10' To 15', Add	39.62	
			For Elevated Installation >15' To 20', Add	79.24	
			For Elevated Installation >20' To 25', Add	99.05	
			For Elevated Installation >25' To 30', Add	138.67	
			For Elevated Installation >30' To 35', Add	158.48	
			For Elevated Installation >35' To 40', Add	198.10	
			For Elevated Installation >40', Add	217.91	
			For Work In Restricted Working Space, Add	118.86	
26 05 33 13-1318	EA	6"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	2,322.74	297.59
			For Elevated Installation >10' To 15', Add	59.52	
			For Elevated Installation >15' To 20', Add	119.04	
			For Elevated Installation >20' To 25', Add	148.80	
			For Elevated Installation >25' To 30', Add	208.31	
			For Elevated Installation >30' To 35', Add	238.07	
			For Elevated Installation >35' To 40', Add	297.59	
			For Elevated Installation >40', Add	327.35	
			For Work In Restricted Working Space, Add	178.55	
26 05 33 13-1319			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Reducing Couplings (26 05 33 13-0826)		
26 05 33 13-1320	EA	3/4" x 1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	56.20	7.04
			For Elevated Installation >10' To 15', Add	1.41	
			For Elevated Installation >15' To 20', Add	2.82	
			For Elevated Installation >20' To 25', Add	3.52	
			For Elevated Installation >25' To 30', Add	4.93	
			For Elevated Installation >30' To 35', Add	5.63	
			For Elevated Installation >35' To 40', Add	7.04	
			For Elevated Installation >40', Add	7.74	
			For Work In Restricted Working Space, Add	4.22	
26 05 33 13-1321	EA	1" x 1/2"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	62.27	8.81
			For Elevated Installation >10' To 15', Add	1.76	
			For Elevated Installation >15' To 20', Add	3.52	
			For Elevated Installation >20' To 25', Add	4.41	
			For Elevated Installation >25' To 30', Add	6.17	
			For Elevated Installation >30' To 35', Add	7.05	
			For Elevated Installation >35' To 40', Add	8.81	
			For Elevated Installation >40', Add	9.69	
			For Work In Restricted Working Space, Add	5.29	
26 05 33 13-1322	EA	1" x 3/4"	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	70.14	8.81
			For Elevated Installation >10' To 15', Add	1.76	
			For Elevated Installation >15' To 20', Add	3.52	
			For Elevated Installation >20' To 25', Add	4.41	
			For Elevated Installation >25' To 30', Add	6.17	
			For Elevated Installation >30' To 35', Add	7.05	
			For Elevated Installation >35' To 40', Add	8.81	
			For Elevated Installation >40', Add	9.69	
			For Work In Restricted Working Space, Add	5.29	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1323 EA 1-1/4" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	86.00	9.68
For Elevated Installation >10' To 15', Add	1.94	
For Elevated Installation >15' To 20', Add	3.87	
For Elevated Installation >20' To 25', Add	4.84	
For Elevated Installation >25' To 30', Add	6.78	
For Elevated Installation >30' To 35', Add	7.75	
For Elevated Installation >35' To 40', Add	9.69	
For Elevated Installation >40', Add	10.65	
For Work In Restricted Working Space, Add	5.81	
26 05 33 13-1324 EA 1-1/4" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	90.54	9.68
For Elevated Installation >10' To 15', Add	1.94	
For Elevated Installation >15' To 20', Add	3.87	
For Elevated Installation >20' To 25', Add	4.84	
For Elevated Installation >25' To 30', Add	6.78	
For Elevated Installation >30' To 35', Add	7.75	
For Elevated Installation >35' To 40', Add	9.69	
For Elevated Installation >40', Add	10.65	
For Work In Restricted Working Space, Add	5.81	
26 05 33 13-1325 EA 1-1/2" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	79.52	11.44
For Elevated Installation >10' To 15', Add	2.29	
For Elevated Installation >15' To 20', Add	4.58	
For Elevated Installation >20' To 25', Add	5.73	
For Elevated Installation >25' To 30', Add	8.02	
For Elevated Installation >30' To 35', Add	9.16	
For Elevated Installation >35' To 40', Add	11.45	
For Elevated Installation >40', Add	12.60	
For Work In Restricted Working Space, Add	6.87	
26 05 33 13-1326 EA 1-1/2" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	89.65	11.44
For Elevated Installation >10' To 15', Add	2.29	
For Elevated Installation >15' To 20', Add	4.58	
For Elevated Installation >20' To 25', Add	5.73	
For Elevated Installation >25' To 30', Add	8.02	
For Elevated Installation >30' To 35', Add	9.16	
For Elevated Installation >35' To 40', Add	11.45	
For Elevated Installation >40', Add	12.60	
For Work In Restricted Working Space, Add	6.87	
26 05 33 13-1327 EA 1-1/2" x 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	135.22	11.44
For Elevated Installation >10' To 15', Add	2.29	
For Elevated Installation >15' To 20', Add	4.58	
For Elevated Installation >20' To 25', Add	5.73	
For Elevated Installation >25' To 30', Add	8.02	
For Elevated Installation >30' To 35', Add	9.16	
For Elevated Installation >35' To 40', Add	11.45	
For Elevated Installation >40', Add	12.60	
For Work In Restricted Working Space, Add	6.87	
26 05 33 13-1328 EA 2" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	150.58	13.21
For Elevated Installation >10' To 15', Add	2.64	
For Elevated Installation >15' To 20', Add	5.28	
For Elevated Installation >20' To 25', Add	6.60	
For Elevated Installation >25' To 30', Add	9.24	
For Elevated Installation >30' To 35', Add	10.56	
For Elevated Installation >35' To 40', Add	13.21	
For Elevated Installation >40', Add	14.53	
For Work In Restricted Working Space, Add	7.92	
26 05 33 13-1329 EA 2" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	146.64	13.21
For Elevated Installation >10' To 15', Add	2.64	
For Elevated Installation >15' To 20', Add	5.28	
For Elevated Installation >20' To 25', Add	6.60	
For Elevated Installation >25' To 30', Add	9.24	
For Elevated Installation >30' To 35', Add	10.56	
For Elevated Installation >35' To 40', Add	13.21	
For Elevated Installation >40', Add	14.53	
For Work In Restricted Working Space, Add	7.92	
26 05 33 13-1330 EA 2" x 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	153.95	13.21
For Elevated Installation >10' To 15', Add	2.64	
For Elevated Installation >15' To 20', Add	5.28	
For Elevated Installation >20' To 25', Add	6.60	
For Elevated Installation >25' To 30', Add	9.24	
For Elevated Installation >30' To 35', Add	10.56	
For Elevated Installation >35' To 40', Add	13.21	
For Elevated Installation >40', Add	14.53	
For Work In Restricted Working Space, Add	7.92	
26 05 33 13-1331 EA 2" x 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	172.34	13.21
For Elevated Installation >10' To 15', Add	2.64	
For Elevated Installation >15' To 20', Add	5.28	
For Elevated Installation >20' To 25', Add	6.60	
For Elevated Installation >25' To 30', Add	9.24	
For Elevated Installation >30' To 35', Add	10.56	
For Elevated Installation >35' To 40', Add	13.21	
For Elevated Installation >40', Add	14.53	
For Work In Restricted Working Space, Add	7.92	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1332	EA		2-1/2" x 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	172.68	15.85
			For Elevated Installation >10' To 15', Add	3.17	
			For Elevated Installation >15' To 20', Add	6.34	
			For Elevated Installation >20' To 25', Add	7.93	
			For Elevated Installation >25' To 30', Add	11.10	
			For Elevated Installation >30' To 35', Add	12.68	
			For Elevated Installation >35' To 40', Add	15.85	
			For Elevated Installation >40', Add	17.44	
			For Work In Restricted Working Space, Add	9.51	
26 05 33 13-1333	EA		3" x 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	221.20	22.02
			For Elevated Installation >10' To 15', Add	4.40	
			For Elevated Installation >15' To 20', Add	8.81	
			For Elevated Installation >20' To 25', Add	11.01	
			For Elevated Installation >25' To 30', Add	15.41	
			For Elevated Installation >30' To 35', Add	17.61	
			For Elevated Installation >35' To 40', Add	22.02	
			For Elevated Installation >40', Add	24.22	
			For Work In Restricted Working Space, Add	13.21	
26 05 33 13-1334	EA		3-1/2" x 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	321.86	25.53
			For Elevated Installation >10' To 15', Add	5.11	
			For Elevated Installation >15' To 20', Add	10.21	
			For Elevated Installation >20' To 25', Add	12.77	
			For Elevated Installation >25' To 30', Add	17.87	
			For Elevated Installation >30' To 35', Add	20.43	
			For Elevated Installation >35' To 40', Add	25.54	
			For Elevated Installation >40', Add	28.09	
			For Work In Restricted Working Space, Add	15.32	
26 05 33 13-1335	EA		4" x 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	431.21	35.21
			For Elevated Installation >10' To 15', Add	7.04	
			For Elevated Installation >15' To 20', Add	14.09	
			For Elevated Installation >20' To 25', Add	17.61	
			For Elevated Installation >25' To 30', Add	24.65	
			For Elevated Installation >30' To 35', Add	28.18	
			For Elevated Installation >35' To 40', Add	35.22	
			For Elevated Installation >40', Add	38.74	
			For Work In Restricted Working Space, Add	21.13	
26 05 33 13-1336	EA		5" x 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling	541.67	48.42
			For Elevated Installation >10' To 15', Add	9.69	
			For Elevated Installation >15' To 20', Add	19.37	
			For Elevated Installation >20' To 25', Add	24.21	
			For Elevated Installation >25' To 30', Add	33.90	
			For Elevated Installation >30' To 35', Add	38.74	
			For Elevated Installation >35' To 40', Add	48.43	
			For Elevated Installation >40', Add	53.27	
			For Work In Restricted Working Space, Add	29.06	
26 05 33 13-1337			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Nipples (26 05 33 13-0826)		
26 05 33 13-1338	EA		1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	38.79	10.56
			For Elevated Installation >10' To 15', Add	2.11	
			For Elevated Installation >15' To 20', Add	4.23	
			For Elevated Installation >20' To 25', Add	5.28	
			For Elevated Installation >25' To 30', Add	7.40	
			For Elevated Installation >30' To 35', Add	8.45	
			For Elevated Installation >35' To 40', Add	10.57	
			For Elevated Installation >40', Add	11.62	
			For Work In Restricted Working Space, Add	6.34	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.34	
26 05 33 13-1339	EA		3/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	44.41	13.21
			For Elevated Installation >10' To 15', Add	2.64	
			For Elevated Installation >15' To 20', Add	5.28	
			For Elevated Installation >20' To 25', Add	6.60	
			For Elevated Installation >25' To 30', Add	9.24	
			For Elevated Installation >30' To 35', Add	10.56	
			For Elevated Installation >35' To 40', Add	13.21	
			For Elevated Installation >40', Add	14.53	
			For Work In Restricted Working Space, Add	7.92	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.92	
26 05 33 13-1340	EA		1" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	52.45	16.72
			For Elevated Installation >10' To 15', Add	3.35	
			For Elevated Installation >15' To 20', Add	6.69	
			For Elevated Installation >20' To 25', Add	8.37	
			For Elevated Installation >25' To 30', Add	11.71	
			For Elevated Installation >30' To 35', Add	13.38	
			For Elevated Installation >35' To 40', Add	16.73	
			For Elevated Installation >40', Add	18.40	
			For Work In Restricted Working Space, Add	10.04	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.04	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1341	EA	1-1/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	62.09	19.37
		For Elevated Installation >10' To 15', Add	3.87	
		For Elevated Installation >15' To 20', Add	7.75	
		For Elevated Installation >20' To 25', Add	9.69	
		For Elevated Installation >25' To 30', Add	13.56	
		For Elevated Installation >30' To 35', Add	15.50	
		For Elevated Installation >35' To 40', Add	19.37	
		For Elevated Installation >40', Add	21.31	
		For Work In Restricted Working Space, Add	11.62	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.62	
26 05 33 13-1342	EA	1-1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	68.14	22.02
		For Elevated Installation >10' To 15', Add	4.40	
		For Elevated Installation >15' To 20', Add	8.80	
		For Elevated Installation >20' To 25', Add	11.01	
		For Elevated Installation >25' To 30', Add	15.41	
		For Elevated Installation >30' To 35', Add	17.61	
		For Elevated Installation >35' To 40', Add	22.01	
		For Elevated Installation >40', Add	24.21	
		For Work In Restricted Working Space, Add	13.21	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.21	
26 05 33 13-1343	EA	1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	42.82	11.44
		For Elevated Installation >10' To 15', Add	2.29	
		For Elevated Installation >15' To 20', Add	4.58	
		For Elevated Installation >20' To 25', Add	5.72	
		For Elevated Installation >25' To 30', Add	8.01	
		For Elevated Installation >30' To 35', Add	9.16	
		For Elevated Installation >35' To 40', Add	11.45	
		For Elevated Installation >40', Add	12.59	
		For Work In Restricted Working Space, Add	6.87	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.87	
26 05 33 13-1344	EA	3/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	46.82	13.21
		For Elevated Installation >10' To 15', Add	2.64	
		For Elevated Installation >15' To 20', Add	5.28	
		For Elevated Installation >20' To 25', Add	6.60	
		For Elevated Installation >25' To 30', Add	9.24	
		For Elevated Installation >30' To 35', Add	10.56	
		For Elevated Installation >35' To 40', Add	13.21	
		For Elevated Installation >40', Add	14.53	
		For Work In Restricted Working Space, Add	7.92	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.92	
26 05 33 13-1345	EA	1" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	54.88	16.72
		For Elevated Installation >10' To 15', Add	3.35	
		For Elevated Installation >15' To 20', Add	6.69	
		For Elevated Installation >20' To 25', Add	8.37	
		For Elevated Installation >25' To 30', Add	11.71	
		For Elevated Installation >30' To 35', Add	13.38	
		For Elevated Installation >35' To 40', Add	16.73	
		For Elevated Installation >40', Add	18.40	
		For Work In Restricted Working Space, Add	10.04	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.04	
26 05 33 13-1346	EA	1-1/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	64.67	19.37
		For Elevated Installation >10' To 15', Add	3.87	
		For Elevated Installation >15' To 20', Add	7.75	
		For Elevated Installation >20' To 25', Add	9.69	
		For Elevated Installation >25' To 30', Add	13.56	
		For Elevated Installation >30' To 35', Add	15.50	
		For Elevated Installation >35' To 40', Add	19.37	
		For Elevated Installation >40', Add	21.31	
		For Work In Restricted Working Space, Add	11.62	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.62	
26 05 33 13-1347	EA	1-1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	70.92	22.02
		For Elevated Installation >10' To 15', Add	4.40	
		For Elevated Installation >15' To 20', Add	8.80	
		For Elevated Installation >20' To 25', Add	11.01	
		For Elevated Installation >25' To 30', Add	15.41	
		For Elevated Installation >30' To 35', Add	17.61	
		For Elevated Installation >35' To 40', Add	22.01	
		For Elevated Installation >40', Add	24.21	
		For Work In Restricted Working Space, Add	13.21	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.21	
26 05 33 13-1348	EA	2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	77.40	24.65
		For Elevated Installation >10' To 15', Add	4.93	
		For Elevated Installation >15' To 20', Add	9.86	
		For Elevated Installation >20' To 25', Add	12.33	
		For Elevated Installation >25' To 30', Add	17.26	
		For Elevated Installation >30' To 35', Add	19.72	
		For Elevated Installation >35' To 40', Add	24.65	
		For Elevated Installation >40', Add	27.12	
		For Work In Restricted Working Space, Add	14.79	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.79	



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-1349	EA	1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	42.99	11.44
		For Elevated Installation >10' To 15', Add	2.29	
		For Elevated Installation >15' To 20', Add	4.58	
		For Elevated Installation >20' To 25', Add	5.72	
		For Elevated Installation >25' To 30', Add	8.01	
		For Elevated Installation >30' To 35', Add	9.16	
		For Elevated Installation >35' To 40', Add	11.45	
		For Elevated Installation >40', Add	12.59	
		For Work In Restricted Working Space, Add	6.87	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.87	
26 05 33 13-1350	EA	3/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	46.99	13.21
		For Elevated Installation >10' To 15', Add	2.64	
		For Elevated Installation >15' To 20', Add	5.28	
		For Elevated Installation >20' To 25', Add	6.60	
		For Elevated Installation >25' To 30', Add	9.24	
		For Elevated Installation >30' To 35', Add	10.56	
		For Elevated Installation >35' To 40', Add	13.21	
		For Elevated Installation >40', Add	14.53	
		For Work In Restricted Working Space, Add	7.92	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.92	
26 05 33 13-1351	EA	1" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	55.19	16.72
		For Elevated Installation >10' To 15', Add	3.35	
		For Elevated Installation >15' To 20', Add	6.69	
		For Elevated Installation >20' To 25', Add	8.36	
		For Elevated Installation >25' To 30', Add	11.71	
		For Elevated Installation >30' To 35', Add	13.38	
		For Elevated Installation >35' To 40', Add	16.73	
		For Elevated Installation >40', Add	18.40	
		For Work In Restricted Working Space, Add	10.04	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.04	
26 05 33 13-1352	EA	1-1/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	65.01	19.37
		For Elevated Installation >10' To 15', Add	3.87	
		For Elevated Installation >15' To 20', Add	7.75	
		For Elevated Installation >20' To 25', Add	9.69	
		For Elevated Installation >25' To 30', Add	13.56	
		For Elevated Installation >30' To 35', Add	15.50	
		For Elevated Installation >35' To 40', Add	19.37	
		For Elevated Installation >40', Add	21.31	
		For Work In Restricted Working Space, Add	11.62	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.62	
26 05 33 13-1353	EA	1-1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	71.26	22.02
		For Elevated Installation >10' To 15', Add	4.40	
		For Elevated Installation >15' To 20', Add	8.80	
		For Elevated Installation >20' To 25', Add	11.01	
		For Elevated Installation >25' To 30', Add	15.41	
		For Elevated Installation >30' To 35', Add	17.61	
		For Elevated Installation >35' To 40', Add	22.01	
		For Elevated Installation >40', Add	24.21	
		For Work In Restricted Working Space, Add	13.21	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.21	
26 05 33 13-1354	EA	2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	78.27	24.65
		For Elevated Installation >10' To 15', Add	4.93	
		For Elevated Installation >15' To 20', Add	9.86	
		For Elevated Installation >20' To 25', Add	12.33	
		For Elevated Installation >25' To 30', Add	17.26	
		For Elevated Installation >30' To 35', Add	19.72	
		For Elevated Installation >35' To 40', Add	24.65	
		For Elevated Installation >40', Add	27.12	
		For Work In Restricted Working Space, Add	14.79	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.79	
26 05 33 13-1355	EA	1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	45.28	11.44
		For Elevated Installation >10' To 15', Add	2.29	
		For Elevated Installation >15' To 20', Add	4.58	
		For Elevated Installation >20' To 25', Add	5.72	
		For Elevated Installation >25' To 30', Add	8.01	
		For Elevated Installation >30' To 35', Add	9.16	
		For Elevated Installation >35' To 40', Add	11.45	
		For Elevated Installation >40', Add	12.59	
		For Work In Restricted Working Space, Add	6.87	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.87	
26 05 33 13-1356	EA	3/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	49.28	13.21
		For Elevated Installation >10' To 15', Add	2.64	
		For Elevated Installation >15' To 20', Add	5.28	
		For Elevated Installation >20' To 25', Add	6.60	
		For Elevated Installation >25' To 30', Add	9.24	
		For Elevated Installation >30' To 35', Add	10.56	
		For Elevated Installation >35' To 40', Add	13.21	
		For Elevated Installation >40', Add	14.53	
		For Work In Restricted Working Space, Add	7.92	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.92	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1357	EA	1" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	57.65	16.72
		For Elevated Installation >10' To 15', Add	3.35	
		For Elevated Installation >15' To 20', Add	6.69	
		For Elevated Installation >20' To 25', Add	8.36	
		For Elevated Installation >25' To 30', Add	11.71	
		For Elevated Installation >30' To 35', Add	13.38	
		For Elevated Installation >35' To 40', Add	16.73	
		For Elevated Installation >40', Add	18.40	
		For Work In Restricted Working Space, Add	10.04	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.04	
26 05 33 13-1358	EA	1-1/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	66.41	19.37
		For Elevated Installation >10' To 15', Add	3.87	
		For Elevated Installation >15' To 20', Add	7.75	
		For Elevated Installation >20' To 25', Add	9.69	
		For Elevated Installation >25' To 30', Add	13.56	
		For Elevated Installation >30' To 35', Add	15.50	
		For Elevated Installation >35' To 40', Add	19.37	
		For Elevated Installation >40', Add	21.31	
		For Work In Restricted Working Space, Add	11.62	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.62	
26 05 33 13-1359	EA	1-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	72.80	22.02
		For Elevated Installation >10' To 15', Add	4.40	
		For Elevated Installation >15' To 20', Add	8.80	
		For Elevated Installation >20' To 25', Add	11.01	
		For Elevated Installation >25' To 30', Add	15.41	
		For Elevated Installation >30' To 35', Add	17.61	
		For Elevated Installation >35' To 40', Add	22.01	
		For Elevated Installation >40', Add	24.21	
		For Work In Restricted Working Space, Add	13.21	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.21	
26 05 33 13-1360	EA	2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	80.97	24.65
		For Elevated Installation >10' To 15', Add	4.93	
		For Elevated Installation >15' To 20', Add	9.86	
		For Elevated Installation >20' To 25', Add	12.33	
		For Elevated Installation >25' To 30', Add	17.26	
		For Elevated Installation >30' To 35', Add	19.72	
		For Elevated Installation >35' To 40', Add	24.65	
		For Elevated Installation >40', Add	27.12	
		For Work In Restricted Working Space, Add	14.79	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.79	
26 05 33 13-1361	EA	2-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	110.13	29.93
		For Elevated Installation >10' To 15', Add	5.99	
		For Elevated Installation >15' To 20', Add	11.97	
		For Elevated Installation >20' To 25', Add	14.97	
		For Elevated Installation >25' To 30', Add	20.95	
		For Elevated Installation >30' To 35', Add	23.94	
		For Elevated Installation >35' To 40', Add	29.93	
		For Elevated Installation >40', Add	32.92	
		For Work In Restricted Working Space, Add	17.96	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.96	
26 05 33 13-1362	EA	3" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	144.27	41.38
		For Elevated Installation >10' To 15', Add	8.28	
		For Elevated Installation >15' To 20', Add	16.55	
		For Elevated Installation >20' To 25', Add	20.69	
		For Elevated Installation >25' To 30', Add	28.96	
		For Elevated Installation >30' To 35', Add	33.10	
		For Elevated Installation >35' To 40', Add	41.38	
		For Elevated Installation >40', Add	45.51	
		For Work In Restricted Working Space, Add	24.83	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.83	
26 05 33 13-1363	EA	1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	45.45	11.44
		For Elevated Installation >10' To 15', Add	2.29	
		For Elevated Installation >15' To 20', Add	4.58	
		For Elevated Installation >20' To 25', Add	5.72	
		For Elevated Installation >25' To 30', Add	8.01	
		For Elevated Installation >30' To 35', Add	9.16	
		For Elevated Installation >35' To 40', Add	11.45	
		For Elevated Installation >40', Add	12.59	
		For Work In Restricted Working Space, Add	6.87	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.87	
26 05 33 13-1364	EA	3/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	49.59	13.21
		For Elevated Installation >10' To 15', Add	2.64	
		For Elevated Installation >15' To 20', Add	5.28	
		For Elevated Installation >20' To 25', Add	6.60	
		For Elevated Installation >25' To 30', Add	9.24	
		For Elevated Installation >30' To 35', Add	10.56	
		For Elevated Installation >35' To 40', Add	13.21	
		For Elevated Installation >40', Add	14.53	
		For Work In Restricted Working Space, Add	7.92	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.92	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1365	EA	1" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	57.98	16.72	
		For Elevated Installation >10' To 15', Add	3.35		
		For Elevated Installation >15' To 20', Add	6.69		
		For Elevated Installation >20' To 25', Add	8.36		
		For Elevated Installation >25' To 30', Add	11.71		
		For Elevated Installation >30' To 35', Add	13.38		
		For Elevated Installation >35' To 40', Add	16.73		
		For Elevated Installation >40', Add	18.40		
		For Work In Restricted Working Space, Add	10.04		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.04		
26 05 33 13-1366	EA	1-1/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	67.81	19.37	
		For Elevated Installation >10' To 15', Add	3.87		
		For Elevated Installation >15' To 20', Add	7.75		
		For Elevated Installation >20' To 25', Add	9.69		
		For Elevated Installation >25' To 30', Add	13.56		
		For Elevated Installation >30' To 35', Add	15.50		
		For Elevated Installation >35' To 40', Add	19.37		
		For Elevated Installation >40', Add	21.31		
		For Work In Restricted Working Space, Add	11.62		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.62		
26 05 33 13-1367	EA	1-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	74.34	22.02	
		For Elevated Installation >10' To 15', Add	4.40		
		For Elevated Installation >15' To 20', Add	8.80		
		For Elevated Installation >20' To 25', Add	11.01		
		For Elevated Installation >25' To 30', Add	15.41		
		For Elevated Installation >30' To 35', Add	17.61		
		For Elevated Installation >35' To 40', Add	22.01		
		For Elevated Installation >40', Add	24.21		
		For Work In Restricted Working Space, Add	13.21		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.21		
26 05 33 13-1368	EA	2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	83.68	24.65	
		For Elevated Installation >10' To 15', Add	4.93		
		For Elevated Installation >15' To 20', Add	9.86		
		For Elevated Installation >20' To 25', Add	12.33		
		For Elevated Installation >25' To 30', Add	17.26		
		For Elevated Installation >30' To 35', Add	19.72		
		For Elevated Installation >35' To 40', Add	24.65		
		For Elevated Installation >40', Add	27.12		
		For Work In Restricted Working Space, Add	14.79		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.79		
26 05 33 13-1369	EA	2-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	112.52	29.93	
		For Elevated Installation >10' To 15', Add	5.99		
		For Elevated Installation >15' To 20', Add	11.97		
		For Elevated Installation >20' To 25', Add	14.97		
		For Elevated Installation >25' To 30', Add	20.95		
		For Elevated Installation >30' To 35', Add	23.94		
		For Elevated Installation >35' To 40', Add	29.93		
		For Elevated Installation >40', Add	32.92		
		For Work In Restricted Working Space, Add	17.96		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.96		
26 05 33 13-1370	EA	3" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	149.40	41.38	
		For Elevated Installation >10' To 15', Add	8.28		
		For Elevated Installation >15' To 20', Add	16.55		
		For Elevated Installation >20' To 25', Add	20.69		
		For Elevated Installation >25' To 30', Add	28.96		
		For Elevated Installation >30' To 35', Add	33.10		
		For Elevated Installation >35' To 40', Add	41.38		
		For Elevated Installation >40', Add	45.51		
		For Work In Restricted Working Space, Add	24.83		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.83		
26 05 33 13-1371	EA	3-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	176.45	46.67	
		For Elevated Installation >10' To 15', Add	9.33		
		For Elevated Installation >15' To 20', Add	18.66		
		For Elevated Installation >20' To 25', Add	23.33		
		For Elevated Installation >25' To 30', Add	32.66		
		For Elevated Installation >30' To 35', Add	37.33		
		For Elevated Installation >35' To 40', Add	46.66		
		For Elevated Installation >40', Add	51.33		
		For Work In Restricted Working Space, Add	28.00		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.00		
26 05 33 13-1372	EA	4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	210.43	60.75	
		For Elevated Installation >10' To 15', Add	12.15		
		For Elevated Installation >15' To 20', Add	24.30		
		For Elevated Installation >20' To 25', Add	30.37		
		For Elevated Installation >25' To 30', Add	42.52		
		For Elevated Installation >30' To 35', Add	48.60		
		For Elevated Installation >35' To 40', Add	60.75		
		For Elevated Installation >40', Add	66.82		
		For Work In Restricted Working Space, Add	36.45		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.45		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1373	EA	1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	45.76	11.44
		For Elevated Installation >10' To 15', Add	2.29	
		For Elevated Installation >15' To 20', Add	4.58	
		For Elevated Installation >20' To 25', Add	5.72	
		For Elevated Installation >25' To 30', Add	8.01	
		For Elevated Installation >30' To 35', Add	9.16	
		For Elevated Installation >35' To 40', Add	11.45	
		For Elevated Installation >40', Add	12.59	
		For Work In Restricted Working Space, Add	6.87	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.87	
26 05 33 13-1374	EA	3/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	49.93	13.21
		For Elevated Installation >10' To 15', Add	2.64	
		For Elevated Installation >15' To 20', Add	5.28	
		For Elevated Installation >20' To 25', Add	6.60	
		For Elevated Installation >25' To 30', Add	9.24	
		For Elevated Installation >30' To 35', Add	10.56	
		For Elevated Installation >35' To 40', Add	13.21	
		For Elevated Installation >40', Add	14.53	
		For Work In Restricted Working Space, Add	7.92	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.92	
26 05 33 13-1375	EA	1" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	58.35	16.72
		For Elevated Installation >10' To 15', Add	3.35	
		For Elevated Installation >15' To 20', Add	6.69	
		For Elevated Installation >20' To 25', Add	8.36	
		For Elevated Installation >25' To 30', Add	11.71	
		For Elevated Installation >30' To 35', Add	13.38	
		For Elevated Installation >35' To 40', Add	16.73	
		For Elevated Installation >40', Add	18.40	
		For Work In Restricted Working Space, Add	10.04	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.04	
26 05 33 13-1376	EA	1-1/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	68.46	19.37
		For Elevated Installation >10' To 15', Add	3.87	
		For Elevated Installation >15' To 20', Add	7.75	
		For Elevated Installation >20' To 25', Add	9.69	
		For Elevated Installation >25' To 30', Add	13.56	
		For Elevated Installation >30' To 35', Add	15.50	
		For Elevated Installation >35' To 40', Add	19.37	
		For Elevated Installation >40', Add	21.31	
		For Work In Restricted Working Space, Add	11.62	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.62	
26 05 33 13-1377	EA	1-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	75.02	22.02
		For Elevated Installation >10' To 15', Add	4.40	
		For Elevated Installation >15' To 20', Add	8.80	
		For Elevated Installation >20' To 25', Add	11.01	
		For Elevated Installation >25' To 30', Add	15.41	
		For Elevated Installation >30' To 35', Add	17.61	
		For Elevated Installation >35' To 40', Add	22.01	
		For Elevated Installation >40', Add	24.21	
		For Work In Restricted Working Space, Add	13.21	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.21	
26 05 33 13-1378	EA	2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	85.15	24.65
		For Elevated Installation >10' To 15', Add	4.93	
		For Elevated Installation >15' To 20', Add	9.86	
		For Elevated Installation >20' To 25', Add	12.33	
		For Elevated Installation >25' To 30', Add	17.26	
		For Elevated Installation >30' To 35', Add	19.72	
		For Elevated Installation >35' To 40', Add	24.65	
		For Elevated Installation >40', Add	27.12	
		For Work In Restricted Working Space, Add	14.79	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.79	
26 05 33 13-1379	EA	2-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	122.03	29.93
		For Elevated Installation >10' To 15', Add	5.99	
		For Elevated Installation >15' To 20', Add	11.97	
		For Elevated Installation >20' To 25', Add	14.97	
		For Elevated Installation >25' To 30', Add	20.95	
		For Elevated Installation >30' To 35', Add	23.94	
		For Elevated Installation >35' To 40', Add	29.93	
		For Elevated Installation >40', Add	32.92	
		For Work In Restricted Working Space, Add	17.96	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.96	
26 05 33 13-1380	EA	3" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	157.10	41.38
		For Elevated Installation >10' To 15', Add	8.28	
		For Elevated Installation >15' To 20', Add	16.55	
		For Elevated Installation >20' To 25', Add	20.69	
		For Elevated Installation >25' To 30', Add	28.96	
		For Elevated Installation >30' To 35', Add	33.10	
		For Elevated Installation >35' To 40', Add	41.38	
		For Elevated Installation >40', Add	45.51	
		For Work In Restricted Working Space, Add	24.83	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.83	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1381	EA	3-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	178.09	46.67	
		For Elevated Installation >10' To 15', Add	9.33		
		For Elevated Installation >15' To 20', Add	18.66		
		For Elevated Installation >20' To 25', Add	23.33		
		For Elevated Installation >25' To 30', Add	32.66		
		For Elevated Installation >30' To 35', Add	37.33		
		For Elevated Installation >35' To 40', Add	46.66		
		For Elevated Installation >40', Add	51.33		
		For Work In Restricted Working Space, Add	28.00		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.00		
26 05 33 13-1382	EA	4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	214.83	60.75	
		For Elevated Installation >10' To 15', Add	12.15		
		For Elevated Installation >15' To 20', Add	24.30		
		For Elevated Installation >20' To 25', Add	30.37		
		For Elevated Installation >25' To 30', Add	42.52		
		For Elevated Installation >30' To 35', Add	48.60		
		For Elevated Installation >35' To 40', Add	60.75		
		For Elevated Installation >40', Add	66.82		
		For Work In Restricted Working Space, Add	36.45		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.45		
26 05 33 13-1383	EA	5" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	312.45	83.64	
		For Elevated Installation >10' To 15', Add	16.73		
		For Elevated Installation >15' To 20', Add	33.45		
		For Elevated Installation >20' To 25', Add	41.82		
		For Elevated Installation >25' To 30', Add	58.54		
		For Elevated Installation >30' To 35', Add	66.91		
		For Elevated Installation >35' To 40', Add	83.64		
		For Elevated Installation >40', Add	92.00		
		For Work In Restricted Working Space, Add	50.18		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.18		
26 05 33 13-1384	EA	1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	46.36	11.44	
		For Elevated Installation >10' To 15', Add	2.29		
		For Elevated Installation >15' To 20', Add	4.58		
		For Elevated Installation >20' To 25', Add	5.72		
		For Elevated Installation >25' To 30', Add	8.01		
		For Elevated Installation >30' To 35', Add	9.16		
		For Elevated Installation >35' To 40', Add	11.45		
		For Elevated Installation >40', Add	12.59		
		For Work In Restricted Working Space, Add	6.87		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.87		
26 05 33 13-1385	EA	3/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	50.53	13.21	
		For Elevated Installation >10' To 15', Add	2.64		
		For Elevated Installation >15' To 20', Add	5.28		
		For Elevated Installation >20' To 25', Add	6.60		
		For Elevated Installation >25' To 30', Add	9.24		
		For Elevated Installation >30' To 35', Add	10.56		
		For Elevated Installation >35' To 40', Add	13.21		
		For Elevated Installation >40', Add	14.53		
		For Work In Restricted Working Space, Add	7.92		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.92		
26 05 33 13-1386	EA	1" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	59.00	16.72	
		For Elevated Installation >10' To 15', Add	3.35		
		For Elevated Installation >15' To 20', Add	6.69		
		For Elevated Installation >20' To 25', Add	8.36		
		For Elevated Installation >25' To 30', Add	11.71		
		For Elevated Installation >30' To 35', Add	13.38		
		For Elevated Installation >35' To 40', Add	16.73		
		For Elevated Installation >40', Add	18.40		
		For Work In Restricted Working Space, Add	10.04		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.04		
26 05 33 13-1387	EA	1-1/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	69.67	19.37	
		For Elevated Installation >10' To 15', Add	3.87		
		For Elevated Installation >15' To 20', Add	7.75		
		For Elevated Installation >20' To 25', Add	9.69		
		For Elevated Installation >25' To 30', Add	13.56		
		For Elevated Installation >30' To 35', Add	15.50		
		For Elevated Installation >35' To 40', Add	19.37		
		For Elevated Installation >40', Add	21.31		
		For Work In Restricted Working Space, Add	11.62		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.62		
26 05 33 13-1388	EA	1-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	76.47	22.02	
		For Elevated Installation >10' To 15', Add	4.40		
		For Elevated Installation >15' To 20', Add	8.80		
		For Elevated Installation >20' To 25', Add	11.01		
		For Elevated Installation >25' To 30', Add	15.41		
		For Elevated Installation >30' To 35', Add	17.61		
		For Elevated Installation >35' To 40', Add	22.01		
		For Elevated Installation >40', Add	24.21		
		For Work In Restricted Working Space, Add	13.21		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.21		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1389 EA 2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	86.62	24.65
For Elevated Installation >10' To 15', Add	4.93	
For Elevated Installation >15' To 20', Add	9.86	
For Elevated Installation >20' To 25', Add	12.33	
For Elevated Installation >25' To 30', Add	17.26	
For Elevated Installation >30' To 35', Add	19.72	
For Elevated Installation >35' To 40', Add	24.65	
For Elevated Installation >40', Add	27.12	
For Work In Restricted Working Space, Add	14.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.79	
26 05 33 13-1390 EA 2-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	131.68	29.93
For Elevated Installation >10' To 15', Add	5.99	
For Elevated Installation >15' To 20', Add	11.97	
For Elevated Installation >20' To 25', Add	14.97	
For Elevated Installation >25' To 30', Add	20.95	
For Elevated Installation >30' To 35', Add	23.94	
For Elevated Installation >35' To 40', Add	29.93	
For Elevated Installation >40', Add	32.92	
For Work In Restricted Working Space, Add	17.96	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.96	
26 05 33 13-1391 EA 3" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	167.33	41.38
For Elevated Installation >10' To 15', Add	8.28	
For Elevated Installation >15' To 20', Add	16.55	
For Elevated Installation >20' To 25', Add	20.69	
For Elevated Installation >25' To 30', Add	28.96	
For Elevated Installation >30' To 35', Add	33.10	
For Elevated Installation >35' To 40', Add	41.38	
For Elevated Installation >40', Add	45.51	
For Work In Restricted Working Space, Add	24.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.83	
26 05 33 13-1392 EA 3-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	187.31	46.67
For Elevated Installation >10' To 15', Add	9.33	
For Elevated Installation >15' To 20', Add	18.66	
For Elevated Installation >20' To 25', Add	23.33	
For Elevated Installation >25' To 30', Add	32.66	
For Elevated Installation >30' To 35', Add	37.33	
For Elevated Installation >35' To 40', Add	46.66	
For Elevated Installation >40', Add	51.33	
For Work In Restricted Working Space, Add	28.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.00	
26 05 33 13-1393 EA 4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	230.36	60.75
For Elevated Installation >10' To 15', Add	12.15	
For Elevated Installation >15' To 20', Add	24.30	
For Elevated Installation >20' To 25', Add	30.37	
For Elevated Installation >25' To 30', Add	42.52	
For Elevated Installation >30' To 35', Add	48.60	
For Elevated Installation >35' To 40', Add	60.75	
For Elevated Installation >40', Add	66.82	
For Work In Restricted Working Space, Add	36.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.45	
26 05 33 13-1394 EA 5" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	335.68	83.64
For Elevated Installation >10' To 15', Add	16.73	
For Elevated Installation >15' To 20', Add	33.45	
For Elevated Installation >20' To 25', Add	41.82	
For Elevated Installation >25' To 30', Add	58.54	
For Elevated Installation >30' To 35', Add	66.91	
For Elevated Installation >35' To 40', Add	83.64	
For Elevated Installation >40', Add	92.00	
For Work In Restricted Working Space, Add	50.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.18	
26 05 33 13-1395 EA 1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	47.30	11.44
For Elevated Installation >10' To 15', Add	2.29	
For Elevated Installation >15' To 20', Add	4.58	
For Elevated Installation >20' To 25', Add	5.72	
For Elevated Installation >25' To 30', Add	8.01	
For Elevated Installation >30' To 35', Add	9.16	
For Elevated Installation >35' To 40', Add	11.45	
For Elevated Installation >40', Add	12.59	
For Work In Restricted Working Space, Add	6.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.87	
26 05 33 13-1396 EA 3/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	51.45	13.21
For Elevated Installation >10' To 15', Add	2.64	
For Elevated Installation >15' To 20', Add	5.28	
For Elevated Installation >20' To 25', Add	6.60	
For Elevated Installation >25' To 30', Add	9.24	
For Elevated Installation >30' To 35', Add	10.56	
For Elevated Installation >35' To 40', Add	13.21	
For Elevated Installation >40', Add	14.53	
For Work In Restricted Working Space, Add	7.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.92	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1397	EA	1" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	60.44	16.72
		For Elevated Installation >10' To 15', Add		3.35	
		For Elevated Installation >15' To 20', Add		6.69	
		For Elevated Installation >20' To 25', Add		8.36	
		For Elevated Installation >25' To 30', Add		11.71	
		For Elevated Installation >30' To 35', Add		13.38	
		For Elevated Installation >35' To 40', Add		16.73	
		For Elevated Installation >40', Add		18.40	
		For Work In Restricted Working Space, Add		10.04	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		10.04	
26 05 33 13-1398	EA	1-1/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	69.98	19.37
		For Elevated Installation >10' To 15', Add		3.87	
		For Elevated Installation >15' To 20', Add		7.75	
		For Elevated Installation >20' To 25', Add		9.69	
		For Elevated Installation >25' To 30', Add		13.56	
		For Elevated Installation >30' To 35', Add		15.50	
		For Elevated Installation >35' To 40', Add		19.37	
		For Elevated Installation >40', Add		21.31	
		For Work In Restricted Working Space, Add		11.62	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		11.62	
26 05 33 13-1399	EA	1-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	79.41	22.02
		For Elevated Installation >10' To 15', Add		4.40	
		For Elevated Installation >15' To 20', Add		8.80	
		For Elevated Installation >20' To 25', Add		11.01	
		For Elevated Installation >25' To 30', Add		15.41	
		For Elevated Installation >30' To 35', Add		17.61	
		For Elevated Installation >35' To 40', Add		22.01	
		For Elevated Installation >40', Add		24.21	
		For Work In Restricted Working Space, Add		13.21	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		13.21	
26 05 33 13-1400	EA	2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	93.81	24.65
		For Elevated Installation >10' To 15', Add		4.93	
		For Elevated Installation >15' To 20', Add		9.86	
		For Elevated Installation >20' To 25', Add		12.33	
		For Elevated Installation >25' To 30', Add		17.26	
		For Elevated Installation >30' To 35', Add		19.72	
		For Elevated Installation >35' To 40', Add		24.65	
		For Elevated Installation >40', Add		27.12	
		For Work In Restricted Working Space, Add		14.79	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		14.79	
26 05 33 13-1401	EA	2-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	143.55	29.93
		For Elevated Installation >10' To 15', Add		5.99	
		For Elevated Installation >15' To 20', Add		11.97	
		For Elevated Installation >20' To 25', Add		14.97	
		For Elevated Installation >25' To 30', Add		20.95	
		For Elevated Installation >30' To 35', Add		23.94	
		For Elevated Installation >35' To 40', Add		29.93	
		For Elevated Installation >40', Add		32.92	
		For Work In Restricted Working Space, Add		17.96	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		17.96	
26 05 33 13-1402	EA	3" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	181.32	41.38
		For Elevated Installation >10' To 15', Add		8.28	
		For Elevated Installation >15' To 20', Add		16.55	
		For Elevated Installation >20' To 25', Add		20.69	
		For Elevated Installation >25' To 30', Add		28.96	
		For Elevated Installation >30' To 35', Add		33.10	
		For Elevated Installation >35' To 40', Add		41.38	
		For Elevated Installation >40', Add		45.51	
		For Work In Restricted Working Space, Add		24.83	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		24.83	
26 05 33 13-1403	EA	3-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	210.37	46.67
		For Elevated Installation >10' To 15', Add		9.33	
		For Elevated Installation >15' To 20', Add		18.66	
		For Elevated Installation >20' To 25', Add		23.33	
		For Elevated Installation >25' To 30', Add		32.66	
		For Elevated Installation >30' To 35', Add		37.33	
		For Elevated Installation >35' To 40', Add		46.66	
		For Elevated Installation >40', Add		51.33	
		For Work In Restricted Working Space, Add		28.00	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		28.00	
26 05 33 13-1404	EA	4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	.....	253.69	60.75
		For Elevated Installation >10' To 15', Add		12.15	
		For Elevated Installation >15' To 20', Add		24.30	
		For Elevated Installation >20' To 25', Add		30.37	
		For Elevated Installation >25' To 30', Add		42.52	
		For Elevated Installation >30' To 35', Add		48.60	
		For Elevated Installation >35' To 40', Add		60.75	
		For Elevated Installation >40', Add		66.82	
		For Work In Restricted Working Space, Add		36.45	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add		36.45	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1405	EA	5" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	351.60	83.64
		For Elevated Installation >10' To 15', Add	16.73	
		For Elevated Installation >15' To 20', Add	33.45	
		For Elevated Installation >20' To 25', Add	41.82	
		For Elevated Installation >25' To 30', Add	58.54	
		For Elevated Installation >30' To 35', Add	66.91	
		For Elevated Installation >35' To 40', Add	83.64	
		For Elevated Installation >40', Add	92.00	
		For Work In Restricted Working Space, Add	50.18	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.18	
26 05 33 13-1406	EA	1 1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	48.29	11.44
		For Elevated Installation >10' To 15', Add	2.29	
		For Elevated Installation >15' To 20', Add	4.58	
		For Elevated Installation >20' To 25', Add	5.72	
		For Elevated Installation >25' To 30', Add	8.01	
		For Elevated Installation >30' To 35', Add	9.16	
		For Elevated Installation >35' To 40', Add	11.45	
		For Elevated Installation >40', Add	12.59	
		For Work In Restricted Working Space, Add	6.87	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.87	
26 05 33 13-1407	EA	3/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	52.42	13.21
		For Elevated Installation >10' To 15', Add	2.64	
		For Elevated Installation >15' To 20', Add	5.28	
		For Elevated Installation >20' To 25', Add	6.60	
		For Elevated Installation >25' To 30', Add	9.24	
		For Elevated Installation >30' To 35', Add	10.56	
		For Elevated Installation >35' To 40', Add	13.21	
		For Elevated Installation >40', Add	14.53	
		For Work In Restricted Working Space, Add	7.92	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.92	
26 05 33 13-1408	EA	1" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	61.87	16.72
		For Elevated Installation >10' To 15', Add	3.35	
		For Elevated Installation >15' To 20', Add	6.69	
		For Elevated Installation >20' To 25', Add	8.36	
		For Elevated Installation >25' To 30', Add	11.71	
		For Elevated Installation >30' To 35', Add	13.38	
		For Elevated Installation >35' To 40', Add	16.73	
		For Elevated Installation >40', Add	18.40	
		For Work In Restricted Working Space, Add	10.04	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.04	
26 05 33 13-1409	EA	1-1/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	74.32	19.37
		For Elevated Installation >10' To 15', Add	3.87	
		For Elevated Installation >15' To 20', Add	7.75	
		For Elevated Installation >20' To 25', Add	9.69	
		For Elevated Installation >25' To 30', Add	13.56	
		For Elevated Installation >30' To 35', Add	15.50	
		For Elevated Installation >35' To 40', Add	19.37	
		For Elevated Installation >40', Add	21.31	
		For Work In Restricted Working Space, Add	11.62	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.62	
26 05 33 13-1410	EA	1-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	86.41	22.02
		For Elevated Installation >10' To 15', Add	4.40	
		For Elevated Installation >15' To 20', Add	8.80	
		For Elevated Installation >20' To 25', Add	11.01	
		For Elevated Installation >25' To 30', Add	15.41	
		For Elevated Installation >30' To 35', Add	17.61	
		For Elevated Installation >35' To 40', Add	22.01	
		For Elevated Installation >40', Add	24.21	
		For Work In Restricted Working Space, Add	13.21	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.21	
26 05 33 13-1411	EA	2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	104.38	24.65
		For Elevated Installation >10' To 15', Add	4.93	
		For Elevated Installation >15' To 20', Add	9.86	
		For Elevated Installation >20' To 25', Add	12.33	
		For Elevated Installation >25' To 30', Add	17.26	
		For Elevated Installation >30' To 35', Add	19.72	
		For Elevated Installation >35' To 40', Add	24.65	
		For Elevated Installation >40', Add	27.12	
		For Work In Restricted Working Space, Add	14.79	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.79	
26 05 33 13-1412	EA	2-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	156.09	29.93
		For Elevated Installation >10' To 15', Add	5.99	
		For Elevated Installation >15' To 20', Add	11.97	
		For Elevated Installation >20' To 25', Add	14.97	
		For Elevated Installation >25' To 30', Add	20.95	
		For Elevated Installation >30' To 35', Add	23.94	
		For Elevated Installation >35' To 40', Add	29.93	
		For Elevated Installation >40', Add	32.92	
		For Work In Restricted Working Space, Add	17.96	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.96	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1413	EA		3" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	199.24	41.38
			For Elevated Installation >10' To 15', Add	8.28	
			For Elevated Installation >15' To 20', Add	16.55	
			For Elevated Installation >20' To 25', Add	20.69	
			For Elevated Installation >25' To 30', Add	28.96	
			For Elevated Installation >30' To 35', Add	33.10	
			For Elevated Installation >35' To 40', Add	41.38	
			For Elevated Installation >40', Add	45.51	
			For Work In Restricted Working Space, Add	24.83	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.83	
26 05 33 13-1414	EA		3-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	234.59	46.67
			For Elevated Installation >10' To 15', Add	9.33	
			For Elevated Installation >15' To 20', Add	18.66	
			For Elevated Installation >20' To 25', Add	23.33	
			For Elevated Installation >25' To 30', Add	32.66	
			For Elevated Installation >30' To 35', Add	37.33	
			For Elevated Installation >35' To 40', Add	46.66	
			For Elevated Installation >40', Add	51.33	
			For Work In Restricted Working Space, Add	28.00	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.00	
26 05 33 13-1415	EA		4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	294.51	60.75
			For Elevated Installation >10' To 15', Add	12.15	
			For Elevated Installation >15' To 20', Add	24.30	
			For Elevated Installation >20' To 25', Add	30.37	
			For Elevated Installation >25' To 30', Add	42.52	
			For Elevated Installation >30' To 35', Add	48.60	
			For Elevated Installation >35' To 40', Add	60.75	
			For Elevated Installation >40', Add	66.82	
			For Work In Restricted Working Space, Add	36.45	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.45	
26 05 33 13-1416	EA		5" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	383.37	83.64
			For Elevated Installation >10' To 15', Add	16.73	
			For Elevated Installation >15' To 20', Add	33.45	
			For Elevated Installation >20' To 25', Add	41.82	
			For Elevated Installation >25' To 30', Add	58.54	
			For Elevated Installation >30' To 35', Add	66.91	
			For Elevated Installation >35' To 40', Add	83.64	
			For Elevated Installation >40', Add	92.00	
			For Work In Restricted Working Space, Add	50.18	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.18	
26 05 33 13-1417	EA		1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	49.31	11.44
			For Elevated Installation >10' To 15', Add	2.29	
			For Elevated Installation >15' To 20', Add	4.58	
			For Elevated Installation >20' To 25', Add	5.72	
			For Elevated Installation >25' To 30', Add	8.01	
			For Elevated Installation >30' To 35', Add	9.16	
			For Elevated Installation >35' To 40', Add	11.45	
			For Elevated Installation >40', Add	12.59	
			For Work In Restricted Working Space, Add	6.87	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.87	
26 05 33 13-1418	EA		3/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	53.55	13.21
			For Elevated Installation >10' To 15', Add	2.64	
			For Elevated Installation >15' To 20', Add	5.28	
			For Elevated Installation >20' To 25', Add	6.60	
			For Elevated Installation >25' To 30', Add	9.24	
			For Elevated Installation >30' To 35', Add	10.56	
			For Elevated Installation >35' To 40', Add	13.21	
			For Elevated Installation >40', Add	14.53	
			For Work In Restricted Working Space, Add	7.92	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.92	
26 05 33 13-1419	EA		1" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	65.49	16.72
			For Elevated Installation >10' To 15', Add	3.35	
			For Elevated Installation >15' To 20', Add	6.69	
			For Elevated Installation >20' To 25', Add	8.36	
			For Elevated Installation >25' To 30', Add	11.71	
			For Elevated Installation >30' To 35', Add	13.38	
			For Elevated Installation >35' To 40', Add	16.73	
			For Elevated Installation >40', Add	18.40	
			For Work In Restricted Working Space, Add	10.04	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.04	
26 05 33 13-1420	EA		1-1/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	81.46	19.37
			For Elevated Installation >10' To 15', Add	3.87	
			For Elevated Installation >15' To 20', Add	7.75	
			For Elevated Installation >20' To 25', Add	9.69	
			For Elevated Installation >25' To 30', Add	13.56	
			For Elevated Installation >30' To 35', Add	15.50	
			For Elevated Installation >35' To 40', Add	19.37	
			For Elevated Installation >40', Add	21.31	
			For Work In Restricted Working Space, Add	11.62	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.62	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1421	EA	1-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	94.87	22.02
		For Elevated Installation >10' To 15', Add	4.40	
		For Elevated Installation >15' To 20', Add	8.80	
		For Elevated Installation >20' To 25', Add	11.01	
		For Elevated Installation >25' To 30', Add	15.41	
		For Elevated Installation >30' To 35', Add	17.61	
		For Elevated Installation >35' To 40', Add	22.01	
		For Elevated Installation >40', Add	24.21	
		For Work In Restricted Working Space, Add	13.21	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.21	
26 05 33 13-1422	EA	2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	112.87	24.65
		For Elevated Installation >10' To 15', Add	4.93	
		For Elevated Installation >15' To 20', Add	9.86	
		For Elevated Installation >20' To 25', Add	12.33	
		For Elevated Installation >25' To 30', Add	17.26	
		For Elevated Installation >30' To 35', Add	19.72	
		For Elevated Installation >35' To 40', Add	24.65	
		For Elevated Installation >40', Add	27.12	
		For Work In Restricted Working Space, Add	14.79	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.79	
26 05 33 13-1423	EA	2-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	172.83	29.93
		For Elevated Installation >10' To 15', Add	5.99	
		For Elevated Installation >15' To 20', Add	11.97	
		For Elevated Installation >20' To 25', Add	14.97	
		For Elevated Installation >25' To 30', Add	20.95	
		For Elevated Installation >30' To 35', Add	23.94	
		For Elevated Installation >35' To 40', Add	29.93	
		For Elevated Installation >40', Add	32.92	
		For Work In Restricted Working Space, Add	17.96	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.96	
26 05 33 13-1424	EA	3" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	226.12	41.38
		For Elevated Installation >10' To 15', Add	8.28	
		For Elevated Installation >15' To 20', Add	16.55	
		For Elevated Installation >20' To 25', Add	20.69	
		For Elevated Installation >25' To 30', Add	28.96	
		For Elevated Installation >30' To 35', Add	33.10	
		For Elevated Installation >35' To 40', Add	41.38	
		For Elevated Installation >40', Add	45.51	
		For Work In Restricted Working Space, Add	24.83	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.83	
26 05 33 13-1425	EA	3-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	249.45	46.67
		For Elevated Installation >10' To 15', Add	9.33	
		For Elevated Installation >15' To 20', Add	18.66	
		For Elevated Installation >20' To 25', Add	23.33	
		For Elevated Installation >25' To 30', Add	32.66	
		For Elevated Installation >30' To 35', Add	37.33	
		For Elevated Installation >35' To 40', Add	46.66	
		For Elevated Installation >40', Add	51.33	
		For Work In Restricted Working Space, Add	28.00	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.00	
26 05 33 13-1426	EA	4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	307.03	60.75
		For Elevated Installation >10' To 15', Add	12.15	
		For Elevated Installation >15' To 20', Add	24.30	
		For Elevated Installation >20' To 25', Add	30.37	
		For Elevated Installation >25' To 30', Add	42.52	
		For Elevated Installation >30' To 35', Add	48.60	
		For Elevated Installation >35' To 40', Add	60.75	
		For Elevated Installation >40', Add	66.82	
		For Work In Restricted Working Space, Add	36.45	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.45	
26 05 33 13-1427	EA	5" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	387.91	83.64
		For Elevated Installation >10' To 15', Add	16.73	
		For Elevated Installation >15' To 20', Add	33.45	
		For Elevated Installation >20' To 25', Add	41.82	
		For Elevated Installation >25' To 30', Add	58.54	
		For Elevated Installation >30' To 35', Add	66.91	
		For Elevated Installation >35' To 40', Add	83.64	
		For Elevated Installation >40', Add	92.00	
		For Work In Restricted Working Space, Add	50.18	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.18	
26 05 33 13-1428		Aluminum Rigid Conduit (ARC) (26 05 33 13-0058)		
		Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-1429		Aluminum Rigid Conduit (ARC) With Threaded Coupling (26 05 33 13-1428)		
		Note: Includes field bend conduit up to 1".		
26 05 33 13-1430	LF	1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	7.95	2.71
		For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.02	
		For Work In Restricted Working Space, Add	2.03	
26 05 33 13-1431	LF	3/4" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	9.03	2.98
		For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.12	
		For Work In Restricted Working Space, Add	2.24	
26 05 33 13-1432	LF	1" Aluminum Rigid Conduit (ARC) With Threaded Coupling.....	10.37	3.25
		For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.22	
		For Work In Restricted Working Space, Add	2.44	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1433	LF	1-1/4" Aluminum Rigid Conduit (ARC) With Threaded Coupling <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	11.75 1.32 2.64	3.52
26 05 33 13-1434	LF	1-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	13.13 1.42 2.84	3.79
26 05 33 13-1435	LF	2" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	15.71 1.62 3.25	4.34
26 05 33 13-1436	LF	2-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	21.26 2.03 4.07	5.42
26 05 33 13-1437	LF	3" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	26.38 2.44 4.88	6.50
26 05 33 13-1438	LF	3-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	32.47 3.05 6.10	8.13
26 05 33 13-1439	LF	4" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	40.13 3.86 7.72	10.29
26 05 33 13-1440	LF	5" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	53.11 4.88 9.75	13.01
26 05 33 13-1441	LF	6" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i>	67.74 6.09 12.19	16.25
26 05 33 13-1442		Aluminum 90 Degree Elbows (26 05 33 13-1428)		
26 05 33 13-1443	EA	1" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	47.76 10.56	14.09
26 05 33 13-1444	EA	1-1/4" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	59.90 11.99	15.98
26 05 33 13-1445	EA	1-1/2" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	72.59 13.82	18.42
26 05 33 13-1446	EA	2" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	91.89 15.85	21.13
26 05 33 13-1447	EA	2-1/2" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	130.16 19.30	25.73
26 05 33 13-1448	EA	3" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	184.97 24.99	33.32
26 05 33 13-1449	EA	3-1/2" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	252.03 28.04	37.39
26 05 33 13-1450	EA	4" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	305.17 35.15	46.87
26 05 33 13-1451	EA	5" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	746.91 57.30	76.40
26 05 33 13-1452	EA	6" Aluminum 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	1,056.31 86.15	114.86
26 05 33 13-1453		Aluminum Bushing Set With Locknut (26 05 33 13-1428)		
26 05 33 13-1454	EA	1/2" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.50 4.07 4.07	5.42
26 05 33 13-1455	EA	3/4" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.45 5.28 5.28	7.04
26 05 33 13-1456	EA	1" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.29 6.50 6.50	8.67
26 05 33 13-1457	EA	1-1/4" Aluminum Bushing Set With Locknut <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.07 7.31 7.31	9.75
26 05 33 13-1458	EA	1-1/2" Aluminum Bushing Set With Locknut <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.68 8.94 8.94	11.92
26 05 33 13-1459	EA	2" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.35 10.77 10.77	14.36
26 05 33 13-1460	EA	2-1/2" Aluminum Bushing Set With Locknut <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.64 12.80 12.80	17.07
26 05 33 13-1461	EA	3" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.17 14.63 14.63	19.50
26 05 33 13-1462	EA	3-1/2" Aluminum Bushing Set With Locknut <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.52 15.85 15.85	21.13
26 05 33 13-1463	EA	4" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	62.52 17.07 17.07	22.76

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1464	EA	5" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.90 22.76 22.76	30.34
26 05 33 13-1465	EA	6" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	123.45 34.13 34.13	45.51
26 05 33 13-1466		Schedule 40 Polyvinyl Chloride (PVC) Conduit (26 05 33 13-0058) Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-1467		Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings (26 05 33 13-1466) Note: Includes field bend conduit up to 1".		
26 05 33 13-1468	LF	1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	5.81 0.47 0.81	1.96
26 05 33 13-1469	LF	3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	6.58 0.57 0.96	2.15
26 05 33 13-1470	LF	1" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	8.08 0.76 1.26	2.51
26 05 33 13-1471	LF	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	9.58 0.96 1.56	2.87
26 05 33 13-1472	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	11.25 1.14 1.85	3.34
26 05 33 13-1473	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	13.35 1.43 2.28	3.83
26 05 33 13-1474	LF	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	17.42 2.08 3.25	4.55
26 05 33 13-1475	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	20.36 2.46 3.84	5.26
26 05 33 13-1476	LF	3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	24.75 3.08 4.78	6.22
26 05 33 13-1477	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	29.26 3.49 5.46	7.65
26 05 33 13-1478	LF	5" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	41.67 5.04 7.86	10.77
26 05 33 13-1479	LF	6" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	55.37 6.67 10.41	14.35
26 05 33 13-1480		Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbows (26 05 33 13-1466) See CSI section 26 05 33 13-2307 for conduit field bending.		
26 05 33 13-1481	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow See CSI section 26 05 33 13-2307 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	25.38 1.56 2.90	9.56
26 05 33 13-1482	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow See CSI section 26 05 33 13-2307 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	28.06 1.75 3.24	10.53
26 05 33 13-1483	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow See CSI section 26 05 33 13-2307 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	32.64 2.18 3.95	11.96
26 05 33 13-1484	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow See CSI section 26 05 33 13-2307 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	42.24 2.90 5.21	15.31
26 05 33 13-1485	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow See CSI section 26 05 33 13-2307 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	53.21 3.73 6.66	19.14
26 05 33 13-1486	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow See CSI section 26 05 33 13-2307 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	67.21 4.84 8.57	23.92
26 05 33 13-1487	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow See CSI section 26 05 33 13-2307 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	84.90 6.87 11.78	28.70
26 05 33 13-1488	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow See CSI section 26 05 33 13-2307 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	105.22 9.56 15.89	33.49



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1489	EA		3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2307 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	131.56 12.56 20.63	40.66
26 05 33 13-1490	EA		4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2307 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	158.08 15.60 25.43	47.84
26 05 33 13-1491	EA		5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2307 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	217.26 24.42 38.67	59.80
26 05 33 13-1492	EA		6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow..... See CSI section 26 05 33 13-2307 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	265.79 30.57 48.18	71.76
26 05 33 13-1493 Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbows (26 05 33 13-1466)					
26 05 33 13-1494	EA		1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2307 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	25.38 1.56 2.90	9.56
26 05 33 13-1495	EA		3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2307 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	27.95 1.73 3.21	10.53
26 05 33 13-1496	EA		1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2307 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	32.50 2.15 3.90	11.96
26 05 33 13-1497	EA		1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2307 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	41.81 2.80 5.06	15.31
26 05 33 13-1498	EA		1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2307 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	52.25 3.49 6.33	19.14
26 05 33 13-1499	EA		2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2307 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	66.70 4.72 8.40	23.92
26 05 33 13-1500	EA		2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2307 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	83.94 6.63 11.44	28.70
26 05 33 13-1501	EA		3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2307 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	104.01 9.26 15.47	33.49
26 05 33 13-1502	EA		3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2307 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	128.16 11.71 19.44	40.66
26 05 33 13-1503	EA		4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2307 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	155.15 14.87 24.40	47.84
26 05 33 13-1504	EA		5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2307 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	213.47 23.47 37.34	59.80
26 05 33 13-1505	EA		6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow..... See CSI section 26 05 33 13-2307 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	254.49 27.74 44.22	71.76
26 05 33 13-1506 Schedule 40 Polyvinyl Chloride (PVC) Conduit 18" Large Radius Elbow (26 05 33 13-1466)					
26 05 33 13-1507	EA		1" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow <i>For Schedule 80, Add</i>	95.49 16.69	33.46
26 05 33 13-1508	EA		1-1/4" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow <i>For Schedule 80, Add</i>	111.67 19.71	38.74
26 05 33 13-1509	EA		1-1/2" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow <i>For Schedule 80, Add</i>	126.50 22.27	44.02
26 05 33 13-1510	EA		2" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow <i>For Schedule 80, Add</i>	148.38 27.72	48.42
26 05 33 13-1511	EA		2-1/2" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow <i>For Schedule 80, Add</i>	193.64 37.40	60.75
26 05 33 13-1512	EA		3" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow <i>For Schedule 80, Add</i>	254.65 47.75	82.76
26 05 33 13-1513	EA		3-1/2" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow <i>For Schedule 80, Add</i>	303.50 59.56	93.32

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1514 EA 4" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow For Schedule 80, Add	368.31 68.16	121.50
26 05 33 13-1515 Schedule 40 Polyvinyl Chloride (PVC) Conduit 24" Large Radius Elbow (26 05 33 13-1466)		
26 05 33 13-1516 EA 1" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow For Schedule 80, Add	100.74 18.53	33.46
26 05 33 13-1517 EA 1-1/4" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow For Schedule 80, Add	124.30 24.14	38.74
26 05 33 13-1518 EA 1-1/2" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow For Schedule 80, Add	144.58 28.59	44.02
26 05 33 13-1519 EA 2" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow For Schedule 80, Add	157.33 30.85	48.42
26 05 33 13-1520 EA 2-1/2" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow For Schedule 80, Add	221.22 47.05	60.75
26 05 33 13-1521 EA 3" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow For Schedule 80, Add	294.76 61.79	82.76
26 05 33 13-1522 EA 3-1/2" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow For Schedule 80, Add	328.19 68.20	93.32
26 05 33 13-1523 EA 4" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow For Schedule 80, Add	398.20 78.62	121.50
26 05 33 13-1524 Schedule 40 Polyvinyl Chloride (PVC) Conduit 30" Large Radius Elbow (26 05 33 13-1466)		
26 05 33 13-1525 EA 1" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow For Schedule 80, Add	114.90 23.49	33.46
26 05 33 13-1526 EA 1-1/4" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow For Schedule 80, Add	130.23 26.21	38.74
26 05 33 13-1527 EA 1-1/2" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow For Schedule 80, Add	148.06 29.81	44.02
26 05 33 13-1528 EA 2" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow For Schedule 80, Add	174.21 36.76	48.42
26 05 33 13-1529 EA 2-1/2" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow For Schedule 80, Add	231.49 50.65	60.75
26 05 33 13-1530 EA 3" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow For Schedule 80, Add	303.38 64.80	82.76
26 05 33 13-1531 EA 3-1/2" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow For Schedule 80, Add	361.06 79.71	93.32
26 05 33 13-1532 EA 4" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow For Schedule 80, Add	427.72 88.95	121.50
26 05 33 13-1533 Schedule 40 Polyvinyl Chloride (PVC) Conduit 36" Large Radius Elbow (26 05 33 13-1466)		
26 05 33 13-1534 EA 1" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow For Schedule 80, Add	117.78 24.50	33.46
26 05 33 13-1535 EA 1-1/4" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow For Schedule 80, Add	147.77 32.35	38.74
26 05 33 13-1536 EA 1-1/2" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow For Schedule 80, Add	161.98 34.68	44.02
26 05 33 13-1537 EA 2" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow For Schedule 80, Add	174.83 36.98	48.42
26 05 33 13-1538 EA 2-1/2" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow For Schedule 80, Add	254.12 58.57	60.75
26 05 33 13-1539 EA 3" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow For Schedule 80, Add	354.09 82.55	82.76
26 05 33 13-1540 EA 3-1/2" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow For Schedule 80, Add	407.24 95.87	93.32
26 05 33 13-1541 EA 4" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow For Schedule 80, Add	482.41 108.09	121.50
26 05 33 13-1542 EA 5" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow For Schedule 80, Add	773.84 171.79	197.76
26 05 33 13-1543 EA 6" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow For Schedule 80, Add	1,136.87 249.11	298.00
26 05 33 13-1544 Schedule 40 Polyvinyl Chloride (PVC) Conduit 48" Large Radius Elbow (26 05 33 13-1466)		
26 05 33 13-1545 EA 1" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow For Schedule 80, Add	128.88 28.38	33.46
26 05 33 13-1546 EA 1-1/4" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow For Schedule 80, Add	150.74 33.39	38.74
26 05 33 13-1547 EA 1-1/2" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow For Schedule 80, Add	170.91 37.81	44.02
26 05 33 13-1548 EA 2" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow For Schedule 80, Add	205.67 47.77	48.42
26 05 33 13-1549 EA 2-1/2" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow For Schedule 80, Add	276.21 66.30	60.75
26 05 33 13-1550 EA 3" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow For Schedule 80, Add	390.37 95.25	82.76
26 05 33 13-1551 EA 3-1/2" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow For Schedule 80, Add	441.93 108.01	93.32



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1552	EA		4" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow	542.61	121.50
			For Schedule 80, Add	129.16	
26 05 33 13-1553	EA		5" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow	809.06	197.76
			For Schedule 80, Add	184.12	
26 05 33 13-1554	EA		6" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow	1,165.38	298.00
			For Schedule 80, Add	259.09	
26 05 33 13-1555 Polyvinyl Chloride (PVC) Conduit Female Adapters (26 05 33 13-1466)					
26 05 33 13-1556	EA		1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	17.42	6.70
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.03	
26 05 33 13-1557	EA		3/4" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	20.05	7.65
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.74	
26 05 33 13-1558	EA		1" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	22.79	8.61
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.46	
26 05 33 13-1559	EA		1-1/4" Polyvinyl Chloride (PVC) Conduit Female Adapter	25.65	9.56
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.18	
26 05 33 13-1560	EA		1-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter	31.78	11.96
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.97	
26 05 33 13-1561	EA		2" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	38.56	14.35
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.76	
26 05 33 13-1562	EA		2-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter	52.79	19.14
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.35	
26 05 33 13-1563	EA		3" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	66.55	23.92
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.94	
26 05 33 13-1564	EA		3-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter	86.31	31.10
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.32	
26 05 33 13-1565	EA		4" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	104.63	38.28
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.70	
26 05 33 13-1566	EA		5" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	137.65	47.84
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.88	
26 05 33 13-1567	EA		6" Polyvinyl Chloride (PVC) Conduit Female Adapter.....	171.28	59.80
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.85	
26 05 33 13-1568 Polyvinyl Chloride (PVC) Conduit Bell Ends And Plug (26 05 33 13-1466)					
26 05 33 13-1569	EA		1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	19.86	5.74
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.31	
26 05 33 13-1570	EA		3/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	22.65	6.70
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.03	
26 05 33 13-1571	EA		1" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	25.46	7.65
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.74	
26 05 33 13-1572	EA		1-1/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	30.21	8.61
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.46	
26 05 33 13-1573	EA		1-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	33.66	9.56
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.18	
26 05 33 13-1574	EA		2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	40.31	11.01
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.25	
26 05 33 13-1575	EA		2-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	45.13	12.44
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.33	
26 05 33 13-1576	EA		3" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	51.14	14.35
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.76	
26 05 33 13-1577	EA		3-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	60.54	16.75
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.56	
26 05 33 13-1578	EA		4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	66.90	19.14
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.35	
26 05 33 13-1579	EA		5" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	83.96	21.53
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.15	
26 05 33 13-1580	EA		6" Polyvinyl Chloride (PVC) Conduit Bell End And Plug	94.35	23.92
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.94	
26 05 33 13-1581 Polyvinyl Chloride (PVC) Conduit Terminal Adapters (26 05 33 13-1466)					
26 05 33 13-1582	EA		1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	18.96	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.52	
26 05 33 13-1583	EA		3/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	22.96	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.62	
26 05 33 13-1584	EA		1" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter	25.59	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.35	
26 05 33 13-1585	EA		1-1/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	28.74	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.18	
26 05 33 13-1586	EA		1-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	31.55	11.96
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.97	
26 05 33 13-1587	EA		2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter	38.24	14.35
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.76	
26 05 33 13-1588	EA		2-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	52.14	19.14
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.35	
26 05 33 13-1589	EA		3" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter	65.64	23.92
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.94	
26 05 33 13-1590	EA		3-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	85.15	31.10
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.32	
26 05 33 13-1591	EA		4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	103.44	38.28
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.70	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1592 EA 5" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	135.31	47.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.88	
26 05 33 13-1593 EA 6" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter.....	168.48	59.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.85	
26 05 33 13-1594 Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover (26 05 33 13-1466)		
26 05 33 13-1595 EA 1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	54.14	19.14
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.35	
26 05 33 13-1596 EA 3/4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	62.74	21.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.15	
26 05 33 13-1597 EA 1" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	69.67	23.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.94	
26 05 33 13-1598 EA 1-1/4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	85.85	28.70
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.53	
26 05 33 13-1599 EA 1-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	106.20	35.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.91	
26 05 33 13-1600 EA 2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	136.89	43.05
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.29	
26 05 33 13-1601 EA 2-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	229.42	47.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.88	
26 05 33 13-1602 EA 3" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	245.20	52.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.47	
26 05 33 13-1603 EA 3-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	266.94	59.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.85	
26 05 33 13-1604 EA 4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover.....	298.51	69.36
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.03	
26 05 33 13-1605 Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover (26 05 33 13-1466)		
26 05 33 13-1606 EA 1/2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover.....	76.12	27.09
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.32	
26 05 33 13-1607 EA 3/4" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover.....	85.01	29.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.35	
26 05 33 13-1608 EA 1" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover.....	92.01	32.51
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.38	
26 05 33 13-1609 EA 1-1/4" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover.....	114.23	37.93
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.45	
26 05 33 13-1610 EA 1-1/2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover.....	138.06	46.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.54	
26 05 33 13-1611 EA 2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover.....	168.94	54.18
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.64	
26 05 33 13-1612 Polyvinyl Chloride (PVC) Conduit Expansion Joint (26 05 33 13-1466)		
26 05 33 13-1613 EA 1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	113.70	23.92
26 05 33 13-1614 EA 3/4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	127.01	28.70
26 05 33 13-1615 EA 1" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	141.16	33.49
26 05 33 13-1616 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	154.47	38.28
26 05 33 13-1617 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	167.46	43.05
26 05 33 13-1618 EA 2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	183.03	47.84
26 05 33 13-1619 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	223.32	55.01
26 05 33 13-1620 EA 3" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	266.79	62.19
26 05 33 13-1621 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	312.08	71.76
26 05 33 13-1622 EA 4" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	370.94	83.73
26 05 33 13-1623 EA 5" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	488.43	100.46
26 05 33 13-1624 EA 6" Polyvinyl Chloride (PVC) Conduit Expansion Joint.....	641.69	129.17
26 05 33 13-1625 Polyvinyl Chloride (PVC) Conduit End Caps (26 05 33 13-1466)		
26 05 33 13-1626 EA 1/2" Polyvinyl Chloride (PVC) Conduit End Cap.....	14.79	4.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.59	
26 05 33 13-1627 EA 3/4" Polyvinyl Chloride (PVC) Conduit End Cap.....	17.50	5.74
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.31	
26 05 33 13-1628 EA 1" Polyvinyl Chloride (PVC) Conduit End Cap.....	20.15	6.70
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.03	
26 05 33 13-1629 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit End Cap.....	24.03	7.65
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.74	
26 05 33 13-1630 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit End Cap.....	27.96	8.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.46	
26 05 33 13-1631 EA 2" Polyvinyl Chloride (PVC) Conduit End Cap.....	32.90	9.56
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.18	
26 05 33 13-1632 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit End Cap.....	46.57	11.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.25	
26 05 33 13-1633 EA 3" Polyvinyl Chloride (PVC) Conduit End Cap.....	51.07	12.44
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.33	
26 05 33 13-1634 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit End Cap.....	64.95	13.87
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.40	
26 05 33 13-1635 EA 4" Polyvinyl Chloride (PVC) Conduit End Cap.....	78.28	14.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.12	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1636	EA		5" Polyvinyl Chloride (PVC) Conduit End Cap.....	90.86	16.75
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.56	
26 05 33 13-1637	EA		6" Polyvinyl Chloride (PVC) Conduit End Cap.....	114.63	19.14
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.35	
26 05 33 13-1638			Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Bodies With Cover (Smart Pathways) (26 05 33 13-1466)		
26 05 33 13-1639	EA		2" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways EZLB200).....	143.93	43.05
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.29	
26 05 33 13-1640	EA		3/4" To 1-1/4" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB121).....	145.06	28.70
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.53	
26 05 33 13-1641	EA		1-1/2" To 2-1/2" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB251).....	344.30	47.84
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.88	
26 05 33 13-1642	EA		3" To 4" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB401).....	662.35	69.36
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.03	
26 05 33 13-1643			Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit (26 05 33 13-0058)		
			Note: Exposed installation. Excludes supporting strap, hanger and fastening.		
26 05 33 13-1644			Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit (26 05 33 13-1643)		
26 05 33 13-1645	LF		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	10.89	1.96
26 05 33 13-1646	LF		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	12.12	2.15
26 05 33 13-1647	LF		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	13.41	2.48
26 05 33 13-1648	LF		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	14.70	2.87
26 05 33 13-1649	LF		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	16.50	3.34
26 05 33 13-1650	LF		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	17.91	3.83
26 05 33 13-1651	LF		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	21.37	4.55
26 05 33 13-1652	LF		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	25.16	5.26
26 05 33 13-1653	LF		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	29.04	6.22
26 05 33 13-1654	LF		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	34.14	7.65
26 05 33 13-1655	LF		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	45.64	10.77
26 05 33 13-1656	LF		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit	59.31	14.35
26 05 33 13-1657			Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbows, 12" Large Radius Elbows (26 05 33 13-1643)		
26 05 33 13-1658	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	134.62	9.56
			For 24" Radius, Add	9.50	
			For 36" Radius, Add	13.46	
			For 48" Radius, Add	17.43	
26 05 33 13-1659	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	150.24	10.53
			For 24" Radius, Add	10.61	
			For 36" Radius, Add	15.02	
			For 48" Radius, Add	19.44	
26 05 33 13-1660	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	155.09	11.96
			For 24" Radius, Add	10.88	
			For 36" Radius, Add	15.51	
			For 48" Radius, Add	20.13	
26 05 33 13-1661	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	164.69	15.31
			For 24" Radius, Add	11.39	
			For 36" Radius, Add	16.47	
			For 48" Radius, Add	21.54	
26 05 33 13-1662	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	175.51	19.14
			For 24" Radius, Add	11.97	
			For 36" Radius, Add	17.55	
			For 48" Radius, Add	23.13	
26 05 33 13-1663	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	205.07	23.92
			For 24" Radius, Add	13.89	
			For 36" Radius, Add	20.51	
			For 48" Radius, Add	27.13	
26 05 33 13-1664	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	245.64	28.70
			For 24" Radius, Add	16.63	
			For 36" Radius, Add	24.56	
			For 48" Radius, Add	32.50	
26 05 33 13-1665	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	292.39	33.49
			For 24" Radius, Add	19.84	
			For 36" Radius, Add	29.24	
			For 48" Radius, Add	38.64	
26 05 33 13-1666	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows	336.40	40.66
			For 24" Radius, Add	22.69	
			For 36" Radius, Add	33.64	
			For 48" Radius, Add	44.59	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1667	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows 380.42	47.84	
			For 24" Radius, Add	25.54	
			For 36" Radius, Add	38.04	
			For 48" Radius, Add	50.54	
26 05 33 13-1668	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows 475.52	59.80	
			For 24" Radius, Add	31.93	
			For 36" Radius, Add	47.55	
			For 48" Radius, Add	63.18	
26 05 33 13-1669	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows 586.93	71.76	
			For 24" Radius, Add	39.53	
			For 36" Radius, Add	58.69	
			For 48" Radius, Add	77.85	
26 05 33 13-1670 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbows, 12" Large Radius Elbows (26 05 33 13-1643)					
26 05 33 13-1671	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows 114.69	9.56	
			For 24" Radius, Add	8.00	
			For 36" Radius, Add	11.47	
			For 48" Radius, Add	14.93	
26 05 33 13-1672	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows 127.93	10.53	
			For 24" Radius, Add	8.94	
			For 36" Radius, Add	12.79	
			For 48" Radius, Add	16.65	
26 05 33 13-1673	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows 132.56	11.96	
			For 24" Radius, Add	9.19	
			For 36" Radius, Add	13.26	
			For 48" Radius, Add	17.32	
26 05 33 13-1674	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows 141.94	15.31	
			For 24" Radius, Add	9.69	
			For 36" Radius, Add	14.19	
			For 48" Radius, Add	18.70	
26 05 33 13-1675	EA		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows 152.53	19.14	
			For 24" Radius, Add	10.24	
			For 36" Radius, Add	15.25	
			For 48" Radius, Add	20.26	
26 05 33 13-1676	EA		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows 178.93	23.92	
			For 24" Radius, Add	11.92	
			For 36" Radius, Add	17.89	
			For 48" Radius, Add	23.86	
26 05 33 13-1677	EA		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows 214.34	28.70	
			For 24" Radius, Add	14.28	
			For 36" Radius, Add	21.43	
			For 48" Radius, Add	28.59	
26 05 33 13-1678	EA		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows 254.83	33.49	
			For 24" Radius, Add	17.02	
			For 36" Radius, Add	25.48	
			For 48" Radius, Add	33.95	
26 05 33 13-1679	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows 294.14	40.66	
			For 24" Radius, Add	19.52	
			For 36" Radius, Add	29.41	
			For 48" Radius, Add	39.31	
26 05 33 13-1680	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows 333.47	47.84	
			For 24" Radius, Add	22.02	
			For 36" Radius, Add	33.35	
			For 48" Radius, Add	44.67	
26 05 33 13-1681	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows 416.84	59.80	
			For 24" Radius, Add	27.53	
			For 36" Radius, Add	41.68	
			For 48" Radius, Add	55.84	
26 05 33 13-1682	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows 513.57	71.76	
			For 24" Radius, Add	34.03	
			For 36" Radius, Add	51.36	
			For 48" Radius, Add	68.68	
26 05 33 13-1683 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbows, 12" Large Radius Elbows (26 05 33 13-1643)					
26 05 33 13-1684	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows 106.77	8.61	
			For 24" Radius, Add	7.47	
			For 36" Radius, Add	10.68	
			For 48" Radius, Add	13.88	
26 05 33 13-1685	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows 119.12	9.47	
			For 24" Radius, Add	8.34	
			For 36" Radius, Add	11.91	
			For 48" Radius, Add	15.48	
26 05 33 13-1686	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows 123.31	10.77	
			For 24" Radius, Add	8.58	
			For 36" Radius, Add	12.33	
			For 48" Radius, Add	16.09	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1687	EA	1-1/4"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	131.78	13.78
			For 24" Radius, Add.....	9.02	
			For 36" Radius, Add.....	13.18	
			For 48" Radius, Add.....	17.33	
26 05 33 13-1688	EA	1-1/2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	141.36	17.23
			For 24" Radius, Add.....	9.53	
			For 36" Radius, Add.....	14.14	
			For 48" Radius, Add.....	18.75	
26 05 33 13-1689	EA	2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	165.68	21.53
			For 24" Radius, Add.....	11.08	
			For 36" Radius, Add.....	16.57	
			For 48" Radius, Add.....	22.06	
26 05 33 13-1690	EA	2-1/2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	198.48	25.84
			For 24" Radius, Add.....	13.27	
			For 36" Radius, Add.....	19.85	
			For 48" Radius, Add.....	26.42	
26 05 33 13-1691	EA	3"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	236.01	30.14
			For 24" Radius, Add.....	15.82	
			For 36" Radius, Add.....	23.60	
			For 48" Radius, Add.....	31.39	
26 05 33 13-1692	EA	3-1/2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	272.25	36.59
			For 24" Radius, Add.....	18.13	
			For 36" Radius, Add.....	27.23	
			For 48" Radius, Add.....	36.32	
26 05 33 13-1693	EA	4"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	308.47	43.05
			For 24" Radius, Add.....	20.44	
			For 36" Radius, Add.....	30.85	
			For 48" Radius, Add.....	41.25	
26 05 33 13-1694	EA	5"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	385.59	53.82
			For 24" Radius, Add.....	25.56	
			For 36" Radius, Add.....	38.56	
			For 48" Radius, Add.....	51.56	
26 05 33 13-1695	EA	6"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows.....	475.26	64.59
			For 24" Radius, Add.....	31.61	
			For 36" Radius, Add.....	47.53	
			For 48" Radius, Add.....	63.44	
26 05 33 13-1696			Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbows, 12" Large Radius Elbows (26 05 33 13-1643)		
26 05 33 13-1697	EA	1/2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	101.23	8.61
			For 24" Radius, Add.....	7.05	
			For 36" Radius, Add.....	10.12	
			For 48" Radius, Add.....	13.19	
26 05 33 13-1698	EA	3/4"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	112.92	9.47
			For 24" Radius, Add.....	7.88	
			For 36" Radius, Add.....	11.29	
			For 48" Radius, Add.....	14.71	
26 05 33 13-1699	EA	1"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	117.05	10.77
			For 24" Radius, Add.....	8.11	
			For 36" Radius, Add.....	11.71	
			For 48" Radius, Add.....	15.30	
26 05 33 13-1700	EA	1-1/4"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	125.46	13.78
			For 24" Radius, Add.....	8.55	
			For 36" Radius, Add.....	12.55	
			For 48" Radius, Add.....	16.54	
26 05 33 13-1701	EA	1-1/2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	134.97	17.23
			For 24" Radius, Add.....	9.05	
			For 36" Radius, Add.....	13.50	
			For 48" Radius, Add.....	17.95	
26 05 33 13-1702	EA	2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	158.42	21.53
			For 24" Radius, Add.....	10.54	
			For 36" Radius, Add.....	15.84	
			For 48" Radius, Add.....	21.15	
26 05 33 13-1703	EA	2-1/2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	189.78	25.84
			For 24" Radius, Add.....	12.62	
			For 36" Radius, Add.....	18.98	
			For 48" Radius, Add.....	25.34	
26 05 33 13-1704	EA	3"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	225.58	30.14
			For 24" Radius, Add.....	15.03	
			For 36" Radius, Add.....	22.56	
			For 48" Radius, Add.....	30.08	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1705 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	260.51	36.59
For 24" Radius, Add	17.25	
For 36" Radius, Add	26.05	
For 48" Radius, Add	34.85	
26 05 33 13-1706 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	295.43	43.05
For 24" Radius, Add	19.47	
For 36" Radius, Add	29.54	
For 48" Radius, Add	39.62	
26 05 33 13-1707 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	369.29	53.82
For 24" Radius, Add	24.33	
For 36" Radius, Add	36.93	
For 48" Radius, Add	49.53	
26 05 33 13-1708 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	454.88	64.59
For 24" Radius, Add	30.08	
For 36" Radius, Add	45.49	
For 48" Radius, Add	60.90	
26 05 33 13-1709 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Couplings (26 05 33 13-1643)		
26 05 33 13-1710 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	62.58	6.70
26 05 33 13-1711 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	70.22	7.65
26 05 33 13-1712 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	73.13	8.61
26 05 33 13-1713 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	75.95	9.56
26 05 33 13-1714 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	82.98	11.96
26 05 33 13-1715 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	99.08	14.35
26 05 33 13-1716 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	123.91	19.14
26 05 33 13-1717 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	151.09	23.92
26 05 33 13-1718 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	180.44	31.10
26 05 33 13-1719 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	209.79	38.28
26 05 33 13-1720 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	262.23	47.84
26 05 33 13-1721 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling	327.73	59.80
26 05 33 13-1722 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Couplings (26 05 33 13-1643)		
26 05 33 13-1723 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	42.61	6.70
26 05 33 13-1724 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	47.87	7.65
26 05 33 13-1725 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	50.57	8.61
26 05 33 13-1726 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	53.26	9.56
26 05 33 13-1727 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	59.54	11.96
26 05 33 13-1728 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	65.70	14.35
26 05 33 13-1729 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	83.62	19.14
26 05 33 13-1730 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	102.75	23.92
26 05 33 13-1731 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	126.06	31.10
26 05 33 13-1732 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	149.36	38.28
26 05 33 13-1733 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	186.76	47.84
26 05 33 13-1734 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling	233.40	59.80
26 05 33 13-1735 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Couplings (26 05 33 13-1643)		
26 05 33 13-1736 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	48.90	5.50
26 05 33 13-1737 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	54.87	7.65
26 05 33 13-1738 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	57.65	8.61
26 05 33 13-1739 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	60.26	9.56
26 05 33 13-1740 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	67.07	11.96
26 05 33 13-1741 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	80.13	14.35
26 05 33 13-1742 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	100.92	19.14
26 05 33 13-1743 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	123.48	23.92
26 05 33 13-1744 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	149.38	31.10
26 05 33 13-1745 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	175.27	38.28
26 05 33 13-1746 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	219.06	47.84
26 05 33 13-1747 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling	273.87	59.80
26 05 33 13-1748 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joints (26 05 33 13-1643)		
26 05 33 13-1749 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	95.22	23.92
26 05 33 13-1750 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	111.06	28.70
26 05 33 13-1751 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	123.46	33.49
26 05 33 13-1752 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	135.67	38.28
26 05 33 13-1753 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	148.54	43.05
26 05 33 13-1754 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	168.28	47.84
26 05 33 13-1755 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	195.98	55.01
26 05 33 13-1756 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	225.60	62.19
26 05 33 13-1757 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint	258.28	71.76



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1758 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	296.94	83.73
26 05 33 13-1759 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	348.75	95.68
26 05 33 13-1760 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	406.03	107.64
26 05 33 13-1761 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joints (26 05 33 13-1643)		
26 05 33 13-1762 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	109.61	23.92
26 05 33 13-1763 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	127.18	28.70
26 05 33 13-1764 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	139.68	33.49
26 05 33 13-1765 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	152.06	38.28
26 05 33 13-1766 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	165.07	43.05
26 05 33 13-1767 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	187.15	47.84
26 05 33 13-1768 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	218.62	55.01
26 05 33 13-1769 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	252.76	62.19
26 05 33 13-1770 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	288.86	71.76
26 05 33 13-1771 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	330.93	83.73
26 05 33 13-1772 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	391.35	95.68
26 05 33 13-1773 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	459.28	107.64
26 05 33 13-1774 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapters (26 05 33 13-1643)		
26 05 33 13-1775 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	135.20	6.70
26 05 33 13-1776 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	150.72	7.65
26 05 33 13-1777 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	157.16	8.61
26 05 33 13-1778 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	163.76	9.56
26 05 33 13-1779 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	171.92	11.96
26 05 33 13-1780 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	191.41	14.35
26 05 33 13-1781 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	234.50	19.14
26 05 33 13-1782 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	283.67	23.92
26 05 33 13-1783 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	329.60	31.10
26 05 33 13-1784 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	375.54	38.28
26 05 33 13-1785 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	469.53	47.84
26 05 33 13-1786 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	584.20	59.80
26 05 33 13-1787 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joints (26 05 33 13-1643)		
26 05 33 13-1788 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	134.63	23.92
26 05 33 13-1789 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	154.92	28.70
26 05 33 13-1790 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	186.46	33.49
26 05 33 13-1791 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	234.18	38.28
26 05 33 13-1792 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	297.51	43.05
26 05 33 13-1793 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	400.99	47.84
26 05 33 13-1794 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	580.34	55.01
26 05 33 13-1795 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	704.54	62.19
26 05 33 13-1796 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	854.65	71.76
26 05 33 13-1797 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	1,010.75	83.73
26 05 33 13-1798 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	1,191.19	95.68
26 05 33 13-1799 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	1,885.28	107.64
26 05 33 13-1800 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover (26 05 33 13-1643)		
26 05 33 13-1801 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	114.08	19.14
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.35	
26 05 33 13-1802 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	132.81	21.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.15	
26 05 33 13-1803 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	180.24	23.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.94	
26 05 33 13-1804 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	220.54	28.70
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.53	
26 05 33 13-1805 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	280.98	35.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.91	
26 05 33 13-1806 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	391.02	43.05
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.29	
26 05 33 13-1807 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	656.93	50.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.67	
26 05 33 13-1808 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	851.99	57.41
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.06	
26 05 33 13-1809 EA 3-1/2" Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover.....	1,026.45	66.98
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.23	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1810 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,200.93 57.41	76.54
26 05 33 13-1811 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,419.66 64.58	86.11
26 05 33 13-1812 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,611.84 71.76	95.68
26 05 33 13-1813 Explosion Proof Conduit Fittings (26 05 33 13-0058) Note: For use with Rigid Galvanized Steel (RGS), Electrical Metallic Tubing (EMT) and Intermediate Metal Conduit (IMC) conduit.		
26 05 33 13-1814 Explosion Proof Malleable Iron Conduit Unions (26 05 33 13-1813)		
26 05 33 13-1815 EA 1/2" Explosion Proof Malleable Iron Conduit Union	51.32	11.29
26 05 33 13-1816 EA 3/4" Explosion Proof Malleable Iron Conduit Union	63.01	12.47
26 05 33 13-1817 EA 1" Explosion Proof Malleable Iron Conduit Union	99.33	16.62
26 05 33 13-1818 EA 1-1/4" Explosion Proof Malleable Iron Conduit Union	130.80	18.41
26 05 33 13-1819 EA 1-1/2" Explosion Proof Malleable Iron Conduit Union	164.47	22.56
26 05 33 13-1820 EA 2" Explosion Proof Malleable Iron Conduit Union	204.51	26.12
26 05 33 13-1821 EA 2-1/2" Explosion Proof Malleable Iron Conduit Union	310.79	37.36
26 05 33 13-1822 EA 3" Explosion Proof Malleable Iron Conduit Union	394.42	44.47
26 05 33 13-1823 EA 3-1/2" Explosion Proof Malleable Iron Conduit Union	658.15	53.37
26 05 33 13-1824 EA 4" Explosion Proof Malleable Iron Conduit Union	700.32	68.19
26 05 33 13-1825 Explosion Proof Malleable Iron Conduit Bodies (26 05 33 13-1813)		
26 05 33 13-1826 EA 1/2" Explosion Proof Malleable Iron Two Hub Conduit Body	180.94	35.62
26 05 33 13-1827 EA 3/4" Explosion Proof Malleable Iron Two Hub Conduit Body	203.99	40.38
26 05 33 13-1828 EA 1" Explosion Proof Malleable Iron Two Hub Conduit Body	238.38	44.53
26 05 33 13-1829 EA 1/2" Explosion Proof Malleable Iron Three Hub Conduit Body	204.94	44.53
26 05 33 13-1830 EA 3/4" Explosion Proof Malleable Iron Three Hub Conduit Body	244.24	53.44
26 05 33 13-1831 EA 1" Explosion Proof Malleable Iron Three Hub Conduit Body	288.66	61.16
26 05 33 13-1832 Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical (26 05 33 13-1813) Note: Includes sealing gasket and lock nut.		
26 05 33 13-1833 EA 1/2" x 1" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	149.68 22.26	29.69
26 05 33 13-1834 EA 3/4" x 1" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	153.48 24.94	33.25
26 05 33 13-1835 EA 1" x 1-1/2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	167.52 27.16	36.22
26 05 33 13-1836 EA 1-1/4" x 2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	214.96 33.40	44.53
26 05 33 13-1837 EA 1-1/2" x 2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	273.60 39.19	52.25
26 05 33 13-1838 EA 2" x 2-1/2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	350.28 44.54	59.38
26 05 33 13-1839 EA 2-1/2" x 3" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	499.53 66.71	88.95
26 05 33 13-1840 EA 3" x 4" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	631.20 83.61	111.48
26 05 33 13-1841 EA 3-1/2" x 4" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	885.38 92.06	122.74
26 05 33 13-1842 EA 4" x 5" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,138.07 100.07	133.42
26 05 33 13-1843 Explosion Proof Flexible Conduit Couplings (26 05 33 13-1813)		
26 05 33 13-1844 EA 1/2" x 12" Explosion Proof Flexible Conduit Coupling	389.77	13.65
26 05 33 13-1845 EA 3/4" x 15" Explosion Proof Flexible Conduit Coupling	509.56	15.44
26 05 33 13-1846 Conduit Installed Below Grade (26 05 33 13-0057) Note: By direct burial in trench or in concrete slabs or duct banks. Includes detectable warning tape for underground conduits. Excludes trenching, backfilling and concrete.		
26 05 33 13-1847 Schedule 40 Polyvinyl Chloride (PVC) Conduit, Direct Burial (26 05 33 13-1846)		
26 05 33 13-1848 Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial (26 05 33 13-1847) Note: Includes field bend conduit up to 1".		
26 05 33 13-1849 LF 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	4.79 0.42 0.70	
26 05 33 13-1850 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	5.39 0.51 0.84	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1851	LF	1" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	6.29	
		For Schedule 60, Add	0.67	
		For Schedule 80, Add	1.08	
26 05 33 13-1852	LF	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	7.19	
		For Schedule 60, Add	0.84	
		For Schedule 80, Add	1.32	
26 05 33 13-1853	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	7.97	
		For Schedule 60, Add	0.97	
		For Schedule 80, Add	1.52	
26 05 33 13-1854	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	9.17	
		For Schedule 60, Add	1.22	
		For Schedule 80, Add	1.86	
26 05 33 13-1855	LF	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	11.73	
		For Schedule 60, Add	1.80	
		For Schedule 80, Add	2.69	
26 05 33 13-1856	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	13.18	
		For Schedule 60, Add	2.10	
		For Schedule 80, Add	3.12	
26 05 33 13-1857	LF	3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	15.49	
		For Schedule 60, Add	2.62	
		For Schedule 80, Add	3.85	
26 05 33 13-1858	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	16.70	
		For Schedule 60, Add	2.86	
		For Schedule 80, Add	4.20	
26 05 33 13-1859	LF	5" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	21.64	
		For Schedule 60, Add	4.03	
		For Schedule 80, Add	5.85	
26 05 33 13-1860	LF	6" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	26.67	
		For Schedule 60, Add	5.23	
		For Schedule 80, Add	7.54	
26 05 33 13-1861		Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbows, Direct Burial (26 05 33 13-1847) See CSI section 26 05 33 13-2307 for conduit field bending.		
26 05 33 13-1862	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	31.36	
		For Schedule 60, Add	1.86	
		For Schedule 80, Add	3.50	
26 05 33 13-1863	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	37.63	
		For Schedule 60, Add	2.23	
		For Schedule 80, Add	4.20	
26 05 33 13-1864	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	44.60	
		For Schedule 60, Add	2.78	
		For Schedule 80, Add	5.15	
26 05 33 13-1865	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	51.80	
		For Schedule 60, Add	3.38	
		For Schedule 80, Add	6.17	
26 05 33 13-1866	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	59.19	
		For Schedule 60, Add	4.03	
		For Schedule 80, Add	7.26	
26 05 33 13-1867	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	67.21	
		For Schedule 60, Add	4.84	
		For Schedule 80, Add	8.57	
26 05 33 13-1868	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	78.92	
		For Schedule 60, Add	6.57	
		For Schedule 80, Add	11.18	
26 05 33 13-1869	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	93.25	
		For Schedule 60, Add	8.96	
		For Schedule 80, Add	14.70	
26 05 33 13-1870	EA	3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	113.63	
		For Schedule 60, Add	11.66	
		For Schedule 80, Add	18.84	
26 05 33 13-1871	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	134.16	
		For Schedule 60, Add	14.40	
		For Schedule 80, Add	23.04	
26 05 33 13-1872	EA	5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	175.40	
		For Schedule 60, Add	22.32	
		For Schedule 80, Add	34.48	
26 05 33 13-1873	EA	6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial	205.99	
		For Schedule 60, Add	27.58	
		For Schedule 80, Add	42.20	
26 05 33 13-1874		Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbows, Direct Burial (26 05 33 13-1847) See CSI section 26 05 33 13-2307 for conduit field bending.		
26 05 33 13-1875	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	31.36	
		For Schedule 60, Add	1.86	
		For Schedule 80, Add	3.50	
26 05 33 13-1876	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	37.52	
		For Schedule 60, Add	2.20	
		For Schedule 80, Add	4.16	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1877	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	44.46	
		<i>For Schedule 60, Add</i>	2.74	
		<i>For Schedule 80, Add</i>	5.10	
26 05 33 13-1878	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	51.37	
		<i>For Schedule 60, Add</i>	3.27	
		<i>For Schedule 80, Add</i>	6.02	
26 05 33 13-1879	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	58.23	
		<i>For Schedule 60, Add</i>	3.79	
		<i>For Schedule 80, Add</i>	6.93	
26 05 33 13-1880	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	66.70	
		<i>For Schedule 60, Add</i>	4.72	
		<i>For Schedule 80, Add</i>	8.40	
26 05 33 13-1881	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	77.96	
		<i>For Schedule 60, Add</i>	6.33	
		<i>For Schedule 80, Add</i>	10.84	
26 05 33 13-1882	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	92.04	
		<i>For Schedule 60, Add</i>	8.66	
		<i>For Schedule 80, Add</i>	14.27	
26 05 33 13-1883	EA	3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	110.23	
		<i>For Schedule 60, Add</i>	10.81	
		<i>For Schedule 80, Add</i>	17.65	
26 05 33 13-1884	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	131.23	
		<i>For Schedule 60, Add</i>	13.67	
		<i>For Schedule 80, Add</i>	22.01	
26 05 33 13-1885	EA	5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	171.61	
		<i>For Schedule 60, Add</i>	21.37	
		<i>For Schedule 80, Add</i>	33.15	
26 05 33 13-1886	EA	6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial	194.69	
		<i>For Schedule 60, Add</i>	24.75	
		<i>For Schedule 80, Add</i>	38.24	
26 05 33 13-1887 Polyvinyl Chloride (PVC) Conduit Female Adapters, Direct Burial (26 05 33 13-1847)				
26 05 33 13-1888	EA	1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	17.42	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.03	
26 05 33 13-1889	EA	3/4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	20.05	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.74	
26 05 33 13-1890	EA	1" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	22.79	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.46	
26 05 33 13-1891	EA	1-1/4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	25.65	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.18	
26 05 33 13-1892	EA	1-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	28.19	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.89	
26 05 33 13-1893	EA	2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	31.38	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.61	
26 05 33 13-1894	EA	2-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	37.24	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.69	
26 05 33 13-1895	EA	3" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	42.63	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.76	
26 05 33 13-1896	EA	3-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	50.43	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.56	
26 05 33 13-1897	EA	4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	56.79	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.35	
26 05 33 13-1898	EA	5" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	71.87	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.15	
26 05 33 13-1899	EA	6" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial	81.58	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.94	
26 05 33 13-1900 Polyvinyl Chloride (PVC) Conduit Bell Ends And Plug, Direct Burial (26 05 33 13-1847)				
26 05 33 13-1901	EA	1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	19.86	
26 05 33 13-1902	EA	3/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	22.65	
26 05 33 13-1903	EA	1" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	25.46	
26 05 33 13-1904	EA	1-1/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	32.60	
26 05 33 13-1905	EA	1-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	36.05	
26 05 33 13-1906	EA	2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	40.31	
26 05 33 13-1907	EA	2-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	45.13	
26 05 33 13-1908	EA	3" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	51.14	
26 05 33 13-1909	EA	3-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	60.54	
26 05 33 13-1910	EA	4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	66.90	
26 05 33 13-1911	EA	5" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	83.96	
26 05 33 13-1912	EA	6" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial	94.35	
26 05 33 13-1913 Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial (26 05 33 13-1847)				
26 05 33 13-1914	EA	1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial	17.31	
26 05 33 13-1915	EA	3/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial	20.05	
26 05 33 13-1916	EA	1" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial	22.63	
26 05 33 13-1917	EA	1-1/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial	25.38	
26 05 33 13-1918	EA	1-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	27.96	
26 05 33 13-1919	EA	2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	31.06	
26 05 33 13-1920	EA	2-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	36.59	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1921	EA		3" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	41.72	
26 05 33 13-1922	EA		3-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	49.27	
26 05 33 13-1923	EA		4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	55.60	
26 05 33 13-1924	EA		5" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	69.53	
26 05 33 13-1925	EA		6" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial	78.78	
26 05 33 13-1926			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial (26 05 33 13-1846) Note: 40 mil Polyvinyl Chloride (PVC) coated, 2 mil urethane lined (Ocal Blue, Crouse-Hinds, Appleton or O-Z/Gedney).		
26 05 33 13-1927			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial (26 05 33 13-1926) Note: Includes field bending for conduit up to 1".		
26 05 33 13-1928	LF		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	13.09	2.85
			For >250 To 500, Deduct	-0.47	
			For >500 To 1,000, Deduct	-0.80	
			For >1,000, Deduct	-1.12	
26 05 33 13-1929	LF		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	14.67	3.52
			For >250 To 500, Deduct	-0.53	
			For >500 To 1,000, Deduct	-0.90	
			For >1,000, Deduct	-1.26	
26 05 33 13-1930	LF		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	17.95	3.93
			For >250 To 500, Deduct	-0.66	
			For >500 To 1,000, Deduct	-1.11	
			For >1,000, Deduct	-1.56	
26 05 33 13-1931	LF		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	21.57	5.28
			For >250 To 500, Deduct	-0.81	
			For >500 To 1,000, Deduct	-1.35	
			For >1,000, Deduct	-1.89	
26 05 33 13-1932	LF		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	25.25	5.96
			For >250 To 500, Deduct	-0.96	
			For >500 To 1,000, Deduct	-1.59	
			For >1,000, Deduct	-2.22	
26 05 33 13-1933	LF		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	31.91	6.50
			For >250 To 500, Deduct	-1.22	
			For >500 To 1,000, Deduct	-2.02	
			For >1,000, Deduct	-2.82	
26 05 33 13-1934	LF		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	46.11	9.75
			For >250 To 500, Deduct	-1.80	
			For >500 To 1,000, Deduct	-2.95	
			For >1,000, Deduct	-4.10	
26 05 33 13-1935	LF		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	59.61	12.20
			For >250 To 500, Deduct	-2.30	
			For >500 To 1,000, Deduct	-3.79	
			For >1,000, Deduct	-5.28	
26 05 33 13-1936	LF		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	73.64	12.87
			For >250 To 500, Deduct	-2.84	
			For >500 To 1,000, Deduct	-4.68	
			For >1,000, Deduct	-6.52	
26 05 33 13-1937	LF		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	87.53	14.22
			For >250 To 500, Deduct	-3.36	
			For >500 To 1,000, Deduct	-5.55	
			For >1,000, Deduct	-7.74	
26 05 33 13-1938	LF		5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	134.58	19.64
			For >250 To 500, Deduct	-5.44	
			For >500 To 1,000, Deduct	-8.81	
			For >1,000, Deduct	-12.17	
26 05 33 13-1939	LF		6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial	178.91	25.73
			For >250 To 500, Deduct	-7.32	
			For >500 To 1,000, Deduct	-11.79	
			For >1,000, Deduct	-16.27	
26 05 33 13-1940			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Couplings, Direct Burial (26 05 33 13-1926)		
26 05 33 13-1941	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	14.09	4.07
26 05 33 13-1942	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	17.08	5.42
26 05 33 13-1943	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	21.66	6.77
26 05 33 13-1944	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	24.36	7.45
26 05 33 13-1945	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	28.85	8.81
26 05 33 13-1946	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	36.77	10.16
26 05 33 13-1947	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	65.10	12.20
26 05 33 13-1948	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	83.32	16.94
26 05 33 13-1949	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	102.73	19.64
26 05 33 13-1950	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	128.36	27.09
26 05 33 13-1951	EA		5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	316.22	37.25
26 05 33 13-1952	EA		6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	312.02	20.99

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1953	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbows, Direct Burial (26 05 33 13-1926) Note: 90, 45, or 30 degree.		
26 05 33 13-1954	EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	54.75	16.94
26 05 33 13-1955	EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	63.68	20.99
26 05 33 13-1956	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	76.34	25.73
26 05 33 13-1957	EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	90.16	29.80
26 05 33 13-1958	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	105.29	33.86
26 05 33 13-1959	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	126.91	37.25
26 05 33 13-1960	EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	192.22	46.73
26 05 33 13-1961	EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	285.14	63.66
26 05 33 13-1962	EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	350.66	71.79
26 05 33 13-1963	EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	405.83	93.46
26 05 33 13-1964	EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	832.29	152.39
26 05 33 13-1965	EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	1,305.76	228.92
26 05 33 13-1966	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbows, Direct Burial (26 05 33 13-1926)		
26 05 33 13-1967	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	125.58	25.73
26 05 33 13-1968	EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	141.57	29.80
26 05 33 13-1969	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	161.57	33.86
26 05 33 13-1970	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	191.85	37.25
26 05 33 13-1971	EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	265.73	46.73
26 05 33 13-1972	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbows, Direct Burial (26 05 33 13-1926)		
26 05 33 13-1973	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	138.89	25.73
26 05 33 13-1974	EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	163.57	29.80
26 05 33 13-1975	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	177.35	33.86
26 05 33 13-1976	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	226.25	37.25
26 05 33 13-1977	EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	298.90	46.73
26 05 33 13-1978	EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	383.52	63.66
26 05 33 13-1979	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbows, Direct Burial (26 05 33 13-1926)		
26 05 33 13-1980	EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	154.82	25.73
26 05 33 13-1981	EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	175.03	29.80
26 05 33 13-1982	EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	197.59	33.86
26 05 33 13-1983	EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	237.66	37.25
26 05 33 13-1984	EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	337.02	46.73
26 05 33 13-1985	EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	428.27	63.66
26 05 33 13-1986	EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	538.08	71.79
26 05 33 13-1987	EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	610.02	93.46
26 05 33 13-1988	Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbows, Direct Burial (26 05 33 13-1926)		



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1989	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	182.32	25.73
26 05 33 13-1990	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	201.93	29.80
26 05 33 13-1991	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	228.13	33.86
26 05 33 13-1992	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	281.64	37.25
26 05 33 13-1993	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	405.24	46.73
26 05 33 13-1994	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	504.09	63.66
26 05 33 13-1995	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	584.37	71.79
26 05 33 13-1996	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	695.00	93.46
26 05 33 13-1997		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbows, Direct Burial (26 05 33 13-1926)		
26 05 33 13-1998	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	203.73	25.73
26 05 33 13-1999	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	226.97	29.80
26 05 33 13-2000	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	258.19	33.86
26 05 33 13-2001	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	319.93	37.25
26 05 33 13-2002	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	442.46	46.73
26 05 33 13-2003	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	564.73	63.66
26 05 33 13-2004	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	696.93	71.79
26 05 33 13-2005	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	773.02	93.46
26 05 33 13-2006	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	1,287.75	152.39
26 05 33 13-2007		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbows, Direct Burial (26 05 33 13-1926)		
26 05 33 13-2008	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	231.70	25.73
26 05 33 13-2009	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	257.22	29.80
26 05 33 13-2010	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	291.14	33.86
26 05 33 13-2011	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	362.38	37.25
26 05 33 13-2012	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	504.48	46.73
26 05 33 13-2013	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	642.00	63.66
26 05 33 13-2014	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	753.34	71.79
26 05 33 13-2015	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	873.74	93.46
26 05 33 13-2016	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	1,358.33	152.39
26 05 33 13-2017	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	1,863.51	228.92
26 05 33 13-2018		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbows, Direct Burial (26 05 33 13-1926)		
26 05 33 13-2019	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	270.67	25.73
26 05 33 13-2020	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	284.19	29.80
26 05 33 13-2021	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	335.24	33.86
26 05 33 13-2022	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	421.50	37.25
26 05 33 13-2023	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	588.12	46.73
26 05 33 13-2024	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	746.17	63.66
26 05 33 13-2025	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	910.14	71.79
26 05 33 13-2026	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	1,069.67	93.46

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2027	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	1,588.57	152.39
26 05 33 13-2028	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	1,969.19	228.92
26 05 33 13-2029		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbows, Direct Burial (26 05 33 13-1926)		
26 05 33 13-2030	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	280.05	25.73
26 05 33 13-2031	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	329.81	29.80
26 05 33 13-2032	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	373.38	33.86
26 05 33 13-2033	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	439.28	37.25
26 05 33 13-2034	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	609.01	46.73
26 05 33 13-2035	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	778.21	63.66
26 05 33 13-2036	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	995.54	71.79
26 05 33 13-2037	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	1,114.11	93.46
26 05 33 13-2038	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	1,650.43	152.39
26 05 33 13-2039	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	2,022.89	228.92
26 05 33 13-2040		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNF Conduit Unions, Direct Burial (26 05 33 13-1926)		
26 05 33 13-2041	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	96.12	16.94
26 05 33 13-2042	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	105.39	20.99
26 05 33 13-2043	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	136.46	25.73
26 05 33 13-2044	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	196.38	29.80
26 05 33 13-2045	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	232.71	33.86
26 05 33 13-2046	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	294.36	37.25
26 05 33 13-2047	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	391.12	46.73
26 05 33 13-2048	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	503.83	46.73
26 05 33 13-2049	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	652.62	71.79
26 05 33 13-2050	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	840.54	93.46
26 05 33 13-2051	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	1,526.45	152.39
26 05 33 13-2052	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	1,912.84	228.92
26 05 33 13-2053		Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNY Conduit Unions, Direct Burial (26 05 33 13-1926)		
26 05 33 13-2054	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	98.22	16.94
26 05 33 13-2055	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	113.40	20.99
26 05 33 13-2056	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	140.73	25.73
26 05 33 13-2057	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	204.22	29.80
26 05 33 13-2058	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	243.59	33.86
26 05 33 13-2059	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	317.85	37.25
26 05 33 13-2060	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	441.40	46.73
26 05 33 13-2061	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	554.95	46.73
26 05 33 13-2062	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	745.04	71.79
26 05 33 13-2063	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	932.62	93.46
26 05 33 13-2064	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	1,695.25	152.39



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2065	EA		6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	2,185.39	228.92
26 05 33 13-2066			Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Nipples, Direct Burial (26 05 33 13-1926)		
26 05 33 13-2067	EA		1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	33.91	8.13
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.88	
26 05 33 13-2068	EA		3/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	38.32	10.16
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.10	
26 05 33 13-2069	EA		1" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	44.72	12.87
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.72	
26 05 33 13-2070	EA		1-1/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	53.15	14.90
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.94	
26 05 33 13-2071	EA		1-1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	57.98	16.94
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.16	
26 05 33 13-2072	EA		1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	37.54	8.81
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.28	
26 05 33 13-2073	EA		3/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	40.73	10.16
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.10	
26 05 33 13-2074	EA		1" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	47.15	12.87
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.72	
26 05 33 13-2075	EA		1-1/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	55.73	14.90
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.94	
26 05 33 13-2076	EA		1-1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	60.76	16.94
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.16	
26 05 33 13-2077	EA		2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	66.03	18.96
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.38	
26 05 33 13-2078	EA		1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	37.71	8.81
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.28	
26 05 33 13-2079	EA		3/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	40.89	10.16
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.09	
26 05 33 13-2080	EA		1" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	47.47	12.87
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.72	
26 05 33 13-2081	EA		1-1/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	56.07	14.90
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.94	
26 05 33 13-2082	EA		1-1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	61.10	16.94
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.16	
26 05 33 13-2083	EA		2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	66.89	18.96
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.38	
26 05 33 13-2084	EA		1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	40.00	8.81
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.28	
26 05 33 13-2085	EA		3/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	43.18	10.16
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.09	
26 05 33 13-2086	EA		1" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	49.93	12.87
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.72	
26 05 33 13-2087	EA		1-1/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	57.47	14.90
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.94	
26 05 33 13-2088	EA		1-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	62.64	16.94
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.16	
26 05 33 13-2089	EA		2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	69.59	18.96
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.38	
26 05 33 13-2090	EA		2-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	96.32	23.03
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.82	
26 05 33 13-2091	EA		3" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	125.18	31.84
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.10	
26 05 33 13-2092	EA		1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	40.17	8.81
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.28	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2093	EA	3/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	43.49	10.16
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.09	
26 05 33	13-2094	EA	1" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	50.26	12.87
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.72	
26 05 33	13-2095	EA	1-1/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	58.87	14.90
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.94	
26 05 33	13-2096	EA	1-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	64.18	16.94
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.16	
26 05 33	13-2097	EA	2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	72.30	18.96
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.38	
26 05 33	13-2098	EA	2-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	98.71	23.03
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.82	
26 05 33	13-2099	EA	3" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	130.31	31.84
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.10	
26 05 33	13-2100	EA	3-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	154.92	35.89
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.54	
26 05 33	13-2101	EA	4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	182.39	46.73
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.04	
26 05 33	13-2102	EA	1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	40.48	8.81
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.28	
26 05 33	13-2103	EA	3/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	43.83	10.16
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.09	
26 05 33	13-2104	EA	1" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	50.63	12.87
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.72	
26 05 33	13-2105	EA	1-1/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	59.52	14.90
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.94	
26 05 33	13-2106	EA	1-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	64.86	16.94
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.16	
26 05 33	13-2107	EA	2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	73.77	18.96
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.38	
26 05 33	13-2108	EA	2-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	108.22	23.03
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.82	
26 05 33	13-2109	EA	3" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	138.01	31.84
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.10	
26 05 33	13-2110	EA	3-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	156.56	35.89
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.54	
26 05 33	13-2111	EA	4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	186.79	46.73
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.04	
26 05 33	13-2112	EA	5" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	273.85	64.34
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.60	
26 05 33	13-2113	EA	1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	41.08	8.81
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.28	
26 05 33	13-2114	EA	3/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	44.43	10.16
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.09	
26 05 33	13-2115	EA	1" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	51.28	12.87
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.72	
26 05 33	13-2116	EA	1-1/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	60.73	14.90
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.94	
26 05 33	13-2117	EA	1-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	66.31	16.94
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.16	
26 05 33	13-2118	EA	2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	75.24	18.96
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.38	
26 05 33	13-2119	EA	2-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	117.87	23.03
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.82	
26 05 33	13-2120	EA	3" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	148.24	31.84
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.10	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2121	EA		3-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	165.78	35.89
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.54	
26 05 33 13-2122	EA		4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	202.32	46.73
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.04	
26 05 33 13-2123	EA		5" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	297.08	64.34
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.60	
26 05 33 13-2124	EA		1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	42.02	8.81
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.28	
26 05 33 13-2125	EA		3/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	45.35	10.16
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.09	
26 05 33 13-2126	EA		1" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	52.72	12.87
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.72	
26 05 33 13-2127	EA		1-1/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	61.04	14.90
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.94	
26 05 33 13-2128	EA		1-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	69.25	16.94
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	
26 05 33 13-2129	EA		2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	82.43	18.96
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.38	
26 05 33 13-2130	EA		2-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	129.74	23.03
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.82	
26 05 33 13-2131	EA		3" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	162.23	31.84
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.10	
26 05 33 13-2132	EA		3-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	188.84	35.89
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.54	
26 05 33 13-2133	EA		4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	225.65	46.73
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.04	
26 05 33 13-2134	EA		5" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	313.00	64.34
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.60	
26 05 33 13-2135	EA		1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	43.01	8.81
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.28	
26 05 33 13-2136	EA		3/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	46.32	10.16
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.09	
26 05 33 13-2137	EA		1" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	54.15	12.87
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.72	
26 05 33 13-2138	EA		1-1/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	65.38	14.90
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.94	
26 05 33 13-2139	EA		1-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	76.25	16.94
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	
26 05 33 13-2140	EA		2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	93.00	18.96
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.38	
26 05 33 13-2141	EA		2-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	142.28	23.03
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.82	
26 05 33 13-2142	EA		3" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	180.15	31.84
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.10	
26 05 33 13-2143	EA		3-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	213.06	35.89
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.54	
26 05 33 13-2144	EA		4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	266.47	46.73
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.04	
26 05 33 13-2145	EA		5" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	344.77	64.34
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.60	
26 05 33 13-2146	EA		1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	44.03	8.81
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.28	
26 05 33 13-2147	EA		3/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	47.45	10.16
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.09	
26 05 33 13-2148	EA		1" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	57.77	12.87
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.72	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2149	EA		1-1/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	72.52	14.90
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.94	
26 05 33 13-2150	EA		1-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	84.71	16.94
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.16	
26 05 33 13-2151	EA		2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	101.49	18.96
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.38	
26 05 33 13-2152	EA		2-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	159.02	23.03
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.82	
26 05 33 13-2153	EA		3" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	207.03	31.84
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.10	
26 05 33 13-2154	EA		3-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	227.92	35.89
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.54	
26 05 33 13-2155	EA		4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	278.99	46.73
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.04	
26 05 33 13-2156	EA		5" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	349.31	64.34
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.60	
26 05 33 13-2157			Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit (26 05 33 13-1846) Note: Direct burial or encased application.		
26 05 33 13-2158			Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit (26 05 33 13-2157)		
26 05 33 13-2159	LF		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	9.87	1.55
			<i>For Work In Restricted Working Space, Add</i>	1.17	
26 05 33 13-2160	LF		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	10.93	1.67
			<i>For Work In Restricted Working Space, Add</i>	1.26	
26 05 33 13-2161	LF		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	11.62	1.79
			<i>For Work In Restricted Working Space, Add</i>	1.35	
26 05 33 13-2162	LF		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	12.31	1.91
			<i>For Work In Restricted Working Space, Add</i>	1.44	
26 05 33 13-2163	LF		1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	13.22	2.03
			<i>For Work In Restricted Working Space, Add</i>	1.53	
26 05 33 13-2164	LF		2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	13.73	2.15
			<i>For Work In Restricted Working Space, Add</i>	1.61	
26 05 33 13-2165	LF		2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	15.68	2.27
			<i>For Work In Restricted Working Space, Add</i>	1.70	
26 05 33 13-2166	LF		3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	17.98	2.39
			<i>For Work In Restricted Working Space, Add</i>	1.79	
26 05 33 13-2167	LF		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	19.78	2.51
			<i>For Work In Restricted Working Space, Add</i>	1.88	
26 05 33 13-2168	LF		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	21.58	2.63
			<i>For Work In Restricted Working Space, Add</i>	1.97	
26 05 33 13-2169	LF		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	25.61	2.75
			<i>For Work In Restricted Working Space, Add</i>	2.06	
26 05 33 13-2170	LF		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial.....	30.61	2.87
			<i>For Work In Restricted Working Space, Add</i>	2.15	
26 05 33 13-2171			Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbows, 12" Large Radius Elbows (26 05 33 13-2157)		
26 05 33 13-2172	EA		1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	140.60	11.96
			<i>For Work In Restricted Working Space, Add</i>	8.97	
			<i>For 24" Radius, Add</i>	9.80	
			<i>For 36" Radius, Add</i>	14.06	
			<i>For 48" Radius, Add</i>	18.32	
26 05 33 13-2173	EA		3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	159.81	14.35
			<i>For Work In Restricted Working Space, Add</i>	10.76	
			<i>For 24" Radius, Add</i>	11.09	
			<i>For 36" Radius, Add</i>	15.98	
			<i>For 48" Radius, Add</i>	20.87	
26 05 33 13-2174	EA		1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	167.05	16.75
			<i>For Work In Restricted Working Space, Add</i>	12.56	
			<i>For 24" Radius, Add</i>	11.48	
			<i>For 36" Radius, Add</i>	16.71	
			<i>For 48" Radius, Add</i>	21.93	
26 05 33 13-2175	EA		1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial.....	174.25	19.14
			<i>For Work In Restricted Working Space, Add</i>	14.35	
			<i>For 24" Radius, Add</i>	11.87	
			<i>For 36" Radius, Add</i>	17.43	
			<i>For 48" Radius, Add</i>	22.98	



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-2176	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	181.49	21.53
		For Work In Restricted Working Space, Add	16.15	
		For 24" Radius, Add	12.27	
		For 36" Radius, Add	18.15	
		For 48" Radius, Add	24.03	
26 05 33 13-2177	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	205.07	23.92
		For Work In Restricted Working Space, Add	17.94	
		For 24" Radius, Add	13.89	
		For 36" Radius, Add	20.51	
		For 48" Radius, Add	27.13	
26 05 33 13-2178	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	239.66	26.31
		For Work In Restricted Working Space, Add	19.73	
		For 24" Radius, Add	16.33	
		For 36" Radius, Add	23.97	
		For 48" Radius, Add	31.60	
26 05 33 13-2179	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	280.42	28.70
		For Work In Restricted Working Space, Add	21.53	
		For 24" Radius, Add	19.24	
		For 36" Radius, Add	28.04	
		For 48" Radius, Add	36.85	
26 05 33 13-2180	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	318.47	33.49
		For Work In Restricted Working Space, Add	25.12	
		For 24" Radius, Add	21.79	
		For 36" Radius, Add	31.85	
		For 48" Radius, Add	41.90	
26 05 33 13-2181	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	356.50	43.05
		For Work In Restricted Working Space, Add	28.70	
		For 24" Radius, Add	24.35	
		For 36" Radius, Add	35.65	
		For 48" Radius, Add	46.95	
26 05 33 13-2182	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	433.66	43.05
		For Work In Restricted Working Space, Add	32.29	
		For 24" Radius, Add	29.83	
		For 36" Radius, Add	43.37	
		For 48" Radius, Add	56.90	
26 05 33 13-2183	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	527.13	47.84
		For Work In Restricted Working Space, Add	35.88	
		For 24" Radius, Add	36.54	
		For 36" Radius, Add	52.71	
		For 48" Radius, Add	68.88	
26 05 33 13-2184 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Couplings (26 05 33 13-2157)				
26 05 33 13-2185	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	62.58	6.70
		For Work In Restricted Working Space, Add	5.03	
26 05 33 13-2186	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	70.22	7.65
		For Work In Restricted Working Space, Add	5.74	
26 05 33 13-2187	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	73.13	8.61
		For Work In Restricted Working Space, Add	6.46	
26 05 33 13-2188	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	75.95	9.56
		For Work In Restricted Working Space, Add	7.18	
26 05 33 13-2189	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	79.39	10.53
		For Work In Restricted Working Space, Add	7.89	
26 05 33 13-2190	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	91.90	11.48
		For Work In Restricted Working Space, Add	8.61	
26 05 33 13-2191	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	108.36	12.92
		For Work In Restricted Working Space, Add	9.69	
26 05 33 13-2192	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	127.17	14.35
		For Work In Restricted Working Space, Add	10.76	
26 05 33 13-2193	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	144.56	16.75
		For Work In Restricted Working Space, Add	12.56	
26 05 33 13-2194	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	161.95	19.14
		For Work In Restricted Working Space, Add	14.35	
26 05 33 13-2195	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	196.45	21.53
		For Work In Restricted Working Space, Add	16.15	
26 05 33 13-2196	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial	238.03	23.92
		For Work In Restricted Working Space, Add	17.94	
26 05 33 13-2197 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Couplings (26 05 33 13-2157)				
26 05 33 13-2198	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	42.61	6.70
		For Work In Restricted Working Space, Add	5.03	
26 05 33 13-2199	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial	47.87	7.65
		For Work In Restricted Working Space, Add	5.74	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2200 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	50.57	8.61
<i>For Work In Restricted Working Space, Add</i>	6.46	
26 05 33 13-2201 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	53.26	9.56
<i>For Work In Restricted Working Space, Add</i>	7.18	
26 05 33 13-2202 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	55.95	10.53
<i>For Work In Restricted Working Space, Add</i>	7.89	
26 05 33 13-2203 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	58.52	11.48
<i>For Work In Restricted Working Space, Add</i>	8.61	
26 05 33 13-2204 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	68.07	12.92
<i>For Work In Restricted Working Space, Add</i>	9.69	
26 05 33 13-2205 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	78.83	14.35
<i>For Work In Restricted Working Space, Add</i>	10.76	
26 05 33 13-2206 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	90.18	16.75
<i>For Work In Restricted Working Space, Add</i>	12.56	
26 05 33 13-2207 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	101.52	19.14
<i>For Work In Restricted Working Space, Add</i>	14.35	
26 05 33 13-2208 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	120.98	21.53
<i>For Work In Restricted Working Space, Add</i>	16.15	
26 05 33 13-2209 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	143.70	23.92
<i>For Work In Restricted Working Space, Add</i>	17.94	

26 05 33 13-2210 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Couplings
(26 05 33 13-2157)

26 05 33 13-2211 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	41.71	3.83
<i>For Work In Restricted Working Space, Add</i>	2.87	
26 05 33 13-2212 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	46.50	4.31
<i>For Work In Restricted Working Space, Add</i>	3.23	
26 05 33 13-2213 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	48.08	4.79
<i>For Work In Restricted Working Space, Add</i>	3.59	
26 05 33 13-2214 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	49.50	5.26
<i>For Work In Restricted Working Space, Add</i>	3.95	
26 05 33 13-2215 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	51.52	5.74
<i>For Work In Restricted Working Space, Add</i>	4.31	
26 05 33 13-2216 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	61.00	6.70
<i>For Work In Restricted Working Space, Add</i>	5.03	
26 05 33 13-2217 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	73.41	8.13
<i>For Work In Restricted Working Space, Add</i>	6.10	
26 05 33 13-2218 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	87.60	9.56
<i>For Work In Restricted Working Space, Add</i>	7.18	
26 05 33 13-2219 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	101.54	11.96
<i>For Work In Restricted Working Space, Add</i>	8.97	
26 05 33 13-2220 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	115.47	14.35
<i>For Work In Restricted Working Space, Add</i>	10.76	
26 05 33 13-2221 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	141.32	16.75
<i>For Work In Restricted Working Space, Add</i>	12.56	
26 05 33 13-2222 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	172.21	19.14
<i>For Work In Restricted Working Space, Add</i>	14.35	

26 05 33 13-2223 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joints
(26 05 33 13-2157)

26 05 33 13-2224 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	95.22	23.92
<i>For Work In Restricted Working Space, Add</i>	17.94	
26 05 33 13-2225 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	111.06	28.70
<i>For Work In Restricted Working Space, Add</i>	21.53	
26 05 33 13-2226 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	123.46	33.49
<i>For Work In Restricted Working Space, Add</i>	25.12	
26 05 33 13-2227 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	135.67	38.28
<i>For Work In Restricted Working Space, Add</i>	28.70	
26 05 33 13-2228 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	142.56	40.66
<i>For Work In Restricted Working Space, Add</i>	30.50	
26 05 33 13-2229 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	156.32	43.05
<i>For Work In Restricted Working Space, Add</i>	32.29	
26 05 33 13-2230 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	172.05	45.45
<i>For Work In Restricted Working Space, Add</i>	34.09	
26 05 33 13-2231 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	189.72	47.84
<i>For Work In Restricted Working Space, Add</i>	35.88	
26 05 33 13-2232 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	204.46	50.24
<i>For Work In Restricted Working Space, Add</i>	37.67	
26 05 33 13-2233 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	219.20	52.63
<i>For Work In Restricted Working Space, Add</i>	39.47	
26 05 33 13-2234 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	247.10	55.01
<i>For Work In Restricted Working Space, Add</i>	41.27	
26 05 33 13-2235 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	280.46	57.41
<i>For Work In Restricted Working Space, Add</i>	43.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2236 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joints (26 05 33 13-2157)		
26 05 33 13-2237 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	109.61	23.92
For Work In Restricted Working Space, Add	17.94	
26 05 33 13-2238 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	127.18	28.70
For Work In Restricted Working Space, Add	21.53	
26 05 33 13-2239 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	139.68	33.49
For Work In Restricted Working Space, Add	25.12	
26 05 33 13-2240 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	152.06	38.28
For Work In Restricted Working Space, Add	28.70	
26 05 33 13-2241 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	159.09	40.66
For Work In Restricted Working Space, Add	30.50	
26 05 33 13-2242 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	175.19	43.05
For Work In Restricted Working Space, Add	32.29	
26 05 33 13-2243 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	194.69	45.45
For Work In Restricted Working Space, Add	34.09	
26 05 33 13-2244 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	216.88	47.84
For Work In Restricted Working Space, Add	35.88	
26 05 33 13-2245 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	235.04	50.24
For Work In Restricted Working Space, Add	37.67	
26 05 33 13-2246 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	253.19	52.63
For Work In Restricted Working Space, Add	39.47	
26 05 33 13-2247 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	289.70	55.01
For Work In Restricted Working Space, Add	41.27	
26 05 33 13-2248 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	333.71	57.41
For Work In Restricted Working Space, Add	43.06	
26 05 33 13-2249 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapters (26 05 33 13-2157)		
26 05 33 13-2250 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	135.20	6.70
For Work In Restricted Working Space, Add	5.03	
26 05 33 13-2251 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	150.72	7.65
For Work In Restricted Working Space, Add	5.74	
26 05 33 13-2252 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	157.16	8.61
For Work In Restricted Working Space, Add	6.46	
26 05 33 13-2253 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	163.76	9.56
For Work In Restricted Working Space, Add	7.18	
26 05 33 13-2254 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	168.33	10.53
For Work In Restricted Working Space, Add	7.89	
26 05 33 13-2255 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	184.23	11.48
For Work In Restricted Working Space, Add	8.61	
26 05 33 13-2256 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	218.95	12.92
For Work In Restricted Working Space, Add	9.69	
26 05 33 13-2257 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	259.75	14.35
For Work In Restricted Working Space, Add	10.76	
26 05 33 13-2258 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	293.72	16.75
For Work In Restricted Working Space, Add	12.56	
26 05 33 13-2259 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	327.70	19.14
For Work In Restricted Working Space, Add	14.35	
26 05 33 13-2260 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	403.75	21.53
For Work In Restricted Working Space, Add	16.15	
26 05 33 13-2261 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	494.50	23.92
For Work In Restricted Working Space, Add	17.94	
26 05 33 13-2262 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joints (26 05 33 13-2157)		
26 05 33 13-2263 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	134.63	23.92
For Work In Restricted Working Space, Add	17.94	
26 05 33 13-2264 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	154.92	28.70
For Work In Restricted Working Space, Add	21.53	
26 05 33 13-2265 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	186.46	33.49
For Work In Restricted Working Space, Add	25.12	
26 05 33 13-2266 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	234.18	38.28
For Work In Restricted Working Space, Add	28.70	
26 05 33 13-2267 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	291.53	40.66
For Work In Restricted Working Space, Add	30.50	
26 05 33 13-2268 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	389.03	43.05
For Work In Restricted Working Space, Add	32.29	
26 05 33 13-2269 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	556.41	45.45
For Work In Restricted Working Space, Add	34.09	
26 05 33 13-2270 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	668.66	47.84
For Work In Restricted Working Space, Add	35.88	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2271	EA		3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial 800.83		50.24
			<i>For Work In Restricted Working Space, Add</i> 37.67		
26 05 33 13-2272	EA		4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial 933.01		52.63
			<i>For Work In Restricted Working Space, Add</i> 39.47		
26 05 33 13-2273	EA		5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial 1,089.54		55.01
			<i>For Work In Restricted Working Space, Add</i> 41.27		
26 05 33 13-2274	EA		6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial 1,759.71		57.41
			<i>For Work In Restricted Working Space, Add</i> 43.06		
26 05 33 13-2275			Spacers (26 05 33 13-1846) Note: For concrete encasement applications. See CSI section 03 30 53 00-0001 for concrete., 26 05 33 13-1846 for conduit.		
26 05 33 13-2276	EA		1" Base Spacers, Average 4" Wide, Direct Burial 12.71		
26 05 33 13-2277	EA		1" Intermediate Spacers, Average 4" Wide, Direct Burial 13.65		
26 05 33 13-2278	EA		1-1/4" Base Spacer, Average 4" Wide, Direct Burial 15.12		
26 05 33 13-2279	EA		1-1/4" Intermediate Spacers, Average 4" Wide, Direct Burial 16.26		
26 05 33 13-2280	EA		1-1/2" Base Spacer, Average 4" Wide, Direct Burial 15.26		
26 05 33 13-2281	EA		1-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial 16.36		
26 05 33 13-2282	EA		2" Base Spacer, Average 4" Wide, Direct Burial 18.92		
26 05 33 13-2283	EA		2" Intermediate Spacers, Average 4" Wide, Direct Burial 17.56		
26 05 33 13-2284	EA		2-1/2" Base Spacer, Average 4" Wide, Direct Burial 20.91		
26 05 33 13-2285	EA		2-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial 20.22		
26 05 33 13-2286	EA		3" Base Spacer, Average 4" Wide, Direct Burial 23.91		
26 05 33 13-2287	EA		3" Intermediate Spacers, Average 4" Wide, Direct Burial 22.85		
26 05 33 13-2288	EA		3-1/2" Base Spacer, Average 4" Wide, Direct Burial 25.92		
26 05 33 13-2289	EA		3-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial 24.78		
26 05 33 13-2290	EA		4" Base Spacer, Average 4" Wide, Direct Burial 26.71		
26 05 33 13-2291	EA		4" Intermediate Spacers, Average 4" Wide, Direct Burial 25.49		
26 05 33 13-2292	EA		5" Base Spacer, Average 4" Wide, Direct Burial 29.53		
26 05 33 13-2293	EA		5" Intermediate Spacers, Average 4" Wide, Direct Burial 28.07		
26 05 33 13-2294	EA		6" Base Spacer, Average 4" Wide, Direct Burial 33.36		
26 05 33 13-2295	EA		6" Intermediate Spacers, Average 4" Wide, Direct Burial 32.15		
26 05 33 13-2296			Conduit Field Bending (26 05 33 13-0057)		
26 05 33 13-2297			Metallic Conduit Field Bending (26 05 33 13-2296) Note: For use with Rigid Galvanized Steel (RGS), Electrical Metallic Tubing (EMT), Intermediate Metal Conduit (IMC) and aluminum conduits.		
26 05 33 13-2298	EA		1-1/4" Metallic Conduit Field Bending 22.73		
26 05 33 13-2299	EA		1-1/2" Metallic Conduit Field Bending 30.30		
26 05 33 13-2300	EA		2" Metallic Conduit Field Bending 37.88		
26 05 33 13-2301	EA		2-1/2" Metallic Conduit Field Bending 53.02		
26 05 33 13-2302	EA		3" Metallic Conduit Field Bending 68.17		
26 05 33 13-2303	EA		3-1/2" Metallic Conduit Field Bending 83.33		
26 05 33 13-2304	EA		4" Metallic Conduit Field Bending 98.47		
26 05 33 13-2305	EA		5" Metallic Conduit Field Bending 121.20		
26 05 33 13-2306	EA		6" Metallic Conduit Field Bending 143.92		
26 05 33 13-2307			Plastic Conduit Field Bending (26 05 33 13-2296) Note: For PVC conduits.		
26 05 33 13-2308	EA		1" Plastic Conduit Field Bending 34.84		
26 05 33 13-2309	EA		1-1/4" Plastic Conduit Field Bending 37.88		
26 05 33 13-2310	EA		1-1/2" Plastic Conduit Field Bending 45.45		
26 05 33 13-2311	EA		2" Plastic Conduit Field Bending 60.60		
26 05 33 13-2312	EA		2-1/2" Plastic Conduit Field Bending 75.75		
26 05 33 13-2313	EA		3" Plastic Conduit Field Bending 90.90		
26 05 33 13-2314	EA		3-1/2" Plastic Conduit Field Bending 106.05		
26 05 33 13-2315	EA		4" Plastic Conduit Field Bending 121.20		
26 05 33 13-2316	EA		5" Plastic Conduit Field Bending 136.35		
26 05 33 13-2317	EA		6" Plastic Conduit Field Bending 151.50		
26 05 33 13-2318			Cut And Thread Existing In-Place Threaded Conduit (26 05 33 13-0057) Note: For use when connecting conduit to an existing in-place system.		
26 05 33 13-2319	EA		1/2", Cut And Thread Existing In-Place Threaded Conduit 44.53		
			<i>For Work In Restricted Working Space, Add</i> 13.36		
26 05 33 13-2320	EA		3/4", Cut And Thread Existing In-Place Threaded Conduit 48.98		
			<i>For Work In Restricted Working Space, Add</i> 14.69		
26 05 33 13-2321	EA		1", Cut And Thread Existing In-Place Threaded Conduit 53.44		
			<i>For Work In Restricted Working Space, Add</i> 16.03		
26 05 33 13-2322	EA		1-1/4", Cut And Thread Existing In-Place Threaded Conduit 57.89		
			<i>For Work In Restricted Working Space, Add</i> 17.37		
26 05 33 13-2323	EA		1-1/2", Cut And Thread Existing In-Place Threaded Conduit 60.86		
			<i>For Work In Restricted Working Space, Add</i> 18.26		
26 05 33 13-2324	EA		2", Cut And Thread Existing In-Place Threaded Conduit 63.83		
			<i>For Work In Restricted Working Space, Add</i> 19.15		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2325 EA 2-1/2", Cut And Thread Existing In-Place Threaded Conduit.....	66.80	
For Work In Restricted Working Space, Add	20.04	
26 05 33 13-2326 EA 3", Cut And Thread Existing In-Place Threaded Conduit.....	69.77	
For Work In Restricted Working Space, Add	20.93	
26 05 33 13-2327 EA 3-1/2", Cut And Thread Existing In-Place Threaded Conduit.....	71.25	
For Work In Restricted Working Space, Add	21.38	
26 05 33 13-2328 EA 4", Cut And Thread Existing In-Place Threaded Conduit.....	72.74	
For Work In Restricted Working Space, Add	21.82	
26 05 33 13-2329 EA 5", Cut And Thread Existing In-Place Threaded Conduit.....	75.71	
For Work In Restricted Working Space, Add	22.71	
26 05 33 13-2330 EA 6", Cut And Thread Existing In-Place Threaded Conduit.....	78.68	
For Work In Restricted Working Space, Add	23.60	
26 05 33 13-2331 Flexible Conduit (26 05 33 13-0057)		
26 05 33 13-2332 Flexible Liquid Tight Metallic Conduit And Connectors (26 05 33 13-2331)		
Note: Steel inner core with PVC cover.		
26 05 33 13-2333 Flexible Liquid Tight Metallic Conduit (26 05 33 13-2332)		
26 05 33 13-2334 LF 3/8" Flexible Liquid Tight Metallic Conduit	5.37	1.62
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.61	
For Work In Restricted Working Space, Add	1.22	
26 05 33 13-2335 LF 1/2" Flexible Liquid Tight Metallic Conduit	5.56	1.62
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.61	
For Work In Restricted Working Space, Add	1.22	
26 05 33 13-2336 LF 3/4" Flexible Liquid Tight Metallic Conduit	7.44	2.16
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.81	
For Work In Restricted Working Space, Add	1.63	
26 05 33 13-2337 LF 1" Flexible Liquid Tight Metallic Conduit	8.47	2.16
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.81	
For Work In Restricted Working Space, Add	1.63	
26 05 33 13-2338 LF 1-1/4" Flexible Liquid Tight Metallic Conduit	10.92	2.71
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.02	
For Work In Restricted Working Space, Add	2.03	
26 05 33 13-2339 LF 1-1/2" Flexible Liquid Tight Metallic Conduit	13.96	3.25
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.22	
For Work In Restricted Working Space, Add	2.44	
26 05 33 13-2340 LF 2" Flexible Liquid Tight Metallic Conduit	18.38	4.34
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.62	
For Work In Restricted Working Space, Add	3.25	
26 05 33 13-2341 LF 2-1/2" Flexible Liquid Tight Metallic Conduit	24.66	4.88
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.83	
For Work In Restricted Working Space, Add	3.66	
26 05 33 13-2342 LF 3" Flexible Liquid Tight Metallic Conduit	35.86	5.96
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.24	
For Work In Restricted Working Space, Add	4.47	
26 05 33 13-2343 LF 4" Flexible Liquid Tight Metallic Conduit	48.88	7.59
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.84	
For Work In Restricted Working Space, Add	5.69	
26 05 33 13-2344 Straight Liquid Tight Connector (26 05 33 13-2332)		
26 05 33 13-2345 EA 3/8" Straight Liquid Tight Connector	14.53	4.34
For Work In Restricted Working Space, Add	3.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.25	
26 05 33 13-2346 EA 1/2" Straight Liquid Tight Connector	14.53	4.34
For Work In Restricted Working Space, Add	3.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.25	
26 05 33 13-2347 EA 3/4" Straight Liquid Tight Connector	17.50	4.88
For Work In Restricted Working Space, Add	3.66	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.66	
26 05 33 13-2348 EA 1" Straight Liquid Tight Connector	23.00	5.42
For Work In Restricted Working Space, Add	4.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.07	
26 05 33 13-2349 EA 1-1/4" Straight Liquid Tight Connector	29.19	5.96
For Work In Restricted Working Space, Add	4.47	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.47	
26 05 33 13-2350 EA 1-1/2" Straight Liquid Tight Connector	36.64	6.50
For Work In Restricted Working Space, Add	4.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 05 33 13-2351 EA 2" Straight Liquid Tight Connector	50.02	7.59
For Work In Restricted Working Space, Add	5.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69	
26 05 33 13-2352 EA 2-1/2" Straight Liquid Tight Connector	165.40	9.75
For Work In Restricted Working Space, Add	7.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.31	
26 05 33 13-2353 EA 3" Straight Liquid Tight Connector	212.48	10.29
For Work In Restricted Working Space, Add	7.72	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.72	
26 05 33 13-2354 EA 4" Straight Liquid Tight Connector	260.97	15.17
For Work In Restricted Working Space, Add	11.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.38	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2355 90 Degree Angle Liquid Tight Connector (26 05 33 13-2332)		
26 05 33 13-2356 EA 3/8" 90 Degree Angle Liquid Tight Connector.....	21.07	5.96
For Work In Restricted Working Space, Add	4.47	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.47	
26 05 33 13-2357 EA 1/2" 90 Degree Angle Liquid Tight Connector.....	21.87	5.96
For Work In Restricted Working Space, Add	4.47	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.47	
26 05 33 13-2358 EA 3/4" 90 Degree Angle Liquid Tight Connector.....	24.63	6.50
For Work In Restricted Working Space, Add	4.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 05 33 13-2359 EA 1" 90 Degree Angle Liquid Tight Connector.....	34.21	7.59
For Work In Restricted Working Space, Add	5.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69	
26 05 33 13-2360 EA 1-1/4" 90 Degree Angle Liquid Tight Connector.....	42.62	8.13
For Work In Restricted Working Space, Add	6.10	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.10	
26 05 33 13-2361 EA 1-1/2" 90 Degree Angle Liquid Tight Connector.....	51.28	8.67
For Work In Restricted Working Space, Add	6.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.50	
26 05 33 13-2362 EA 2" 90 Degree Angle Liquid Tight Connector.....	67.26	9.75
For Work In Restricted Working Space, Add	7.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.31	
26 05 33 13-2363 EA 2-1/2" 90 Degree Angle Liquid Tight Connector.....	229.94	10.29
For Work In Restricted Working Space, Add	7.72	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.72	
26 05 33 13-2364 EA 3" 90 Degree Angle Liquid Tight Connector.....	271.63	11.92
For Work In Restricted Working Space, Add	8.94	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.94	
26 05 33 13-2365 EA 4" 90 Degree Angle Liquid Tight Connector.....	376.59	18.96
For Work In Restricted Working Space, Add	14.22	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.22	
26 05 33 13-2366 45 Degree Angle Connector (26 05 33 13-2332)		
26 05 33 13-2367 EA 3/8" 45 Degree Angle Liquid Tight Connector.....	20.81	5.96
For Work In Restricted Working Space, Add	4.47	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.47	
26 05 33 13-2368 EA 1/2" 45 Degree Angle Liquid Tight Connector.....	21.00	5.96
For Work In Restricted Working Space, Add	4.47	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.47	
26 05 33 13-2369 EA 3/4" 45 Degree Angle Liquid Tight Connector.....	24.63	6.50
For Work In Restricted Working Space, Add	4.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 05 33 13-2370 EA 1" 45 Degree Angle Liquid Tight Connector.....	36.38	7.59
For Work In Restricted Working Space, Add	5.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69	
26 05 33 13-2371 EA 1-1/4" 45 Degree Angle Liquid Tight Connector.....	41.21	8.13
For Work In Restricted Working Space, Add	6.10	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.10	
26 05 33 13-2372 EA 1-1/2" 45 Degree Angle Liquid Tight Connector.....	46.02	8.67
For Work In Restricted Working Space, Add	6.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.50	
26 05 33 13-2373 Flexible Metallic Conduit And Connectors (26 05 33 13-2331)		
26 05 33 13-2374 Flexible Steel Conduit (26 05 33 13-2373)		
26 05 33 13-2375 LF 3/8" Flexible Metallic Conduit.....	5.02	1.78
For Flexible Aluminum Conduit, Add	0.11	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.65	
For Installation In Metal Stud Wall, Add	0.44	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.09	
For Work In Restricted Working Space, Add	1.31	
26 05 33 13-2376 LF 1/2" Flexible Metallic Conduit.....	5.19	1.78
For Flexible Aluminum Conduit, Add	0.12	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.67	
For Installation In Metal Stud Wall, Add	0.45	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.11	
For Work In Restricted Working Space, Add	1.34	
26 05 33 13-2377 LF 3/4" Flexible Metallic Conduit.....	5.82	2.37
For Flexible Aluminum Conduit, Add	0.17	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.72	
For Installation In Metal Stud Wall, Add	0.48	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.21	
For Work In Restricted Working Space, Add	1.45	
26 05 33 13-2378 LF 1" Flexible Metallic Conduit.....	7.06	2.37
For Flexible Aluminum Conduit, Add	0.31	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.78	
For Installation In Metal Stud Wall, Add	0.52	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.30	
For Work In Restricted Working Space, Add	1.56	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2379	LF	1-1/4" Flexible Metallic Conduit	7.93	2.97
			For Flexible Aluminum Conduit, Add	0.40	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.82	
			For Installation In Metal Stud Wall, Add	0.55	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.37	
			For Work In Restricted Working Space, Add	1.65	
26 05 33	13-2380	LF	1-1/2" Flexible Metallic Conduit	9.99	3.56
			For Flexible Aluminum Conduit, Add	0.71	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.86	
			For Installation In Metal Stud Wall, Add	0.57	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.43	
			For Work In Restricted Working Space, Add	1.71	
26 05 33	13-2381	LF	2" Flexible Metallic Conduit.....	11.18	4.75
			For Flexible Aluminum Conduit, Add	0.87	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.89	
			For Installation In Metal Stud Wall, Add	0.59	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.48	
			For Work In Restricted Working Space, Add	1.78	
26 05 33	13-2382	LF	2-1/2" Flexible Steel Conduit	13.76	5.34
			For Flexible Aluminum Conduit, Add	1.05	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.11	
			For Installation In Metal Stud Wall, Add	0.74	
			For Installation In Wood Stud Wall (Includes Drilling), Add	1.85	
			For Work In Restricted Working Space, Add	2.22	
26 05 33	13-2383	LF	3" Flexible Metallic Conduit.....	19.93	6.52
			For Flexible Aluminum Conduit, Add	1.82	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.34	
			For Installation In Metal Stud Wall, Add	0.89	
			For Installation In Wood Stud Wall (Includes Drilling), Add	2.23	
			For Work In Restricted Working Space, Add	2.67	
26 05 33	13-2384	LF	3-1/2" Flexible Metallic Conduit	24.29	7.11
			For Flexible Aluminum Conduit, Add	2.30	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.56	
			For Installation In Metal Stud Wall, Add	1.04	
			For Installation In Wood Stud Wall (Includes Drilling), Add	2.60	
			For Work In Restricted Working Space, Add	3.11	
26 05 33	13-2385	LF	4" Flexible Metallic Conduit.....	27.91	8.31
			For Flexible Aluminum Conduit, Add	2.65	
			For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.78	
			For Installation In Metal Stud Wall, Add	1.19	
			For Installation In Wood Stud Wall (Includes Drilling), Add	2.97	
			For Work In Restricted Working Space, Add	3.56	
26 05 33 13-2386 Plain Squeeze Type Straight Connector (26 05 33 13-2373)					
26 05 33	13-2387	EA	3/8" Flexible Straight Connectors, Plain.....	8.36	4.75
			For Work In Restricted Working Space, Add	2.00	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.00	
26 05 33	13-2388	EA	1/2" Flexible Straight Connectors, Plain.....	10.10	5.34
			For Work In Restricted Working Space, Add	2.22	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.22	
26 05 33	13-2389	EA	3/4" Flexible Straight Connectors, Plain.....	11.73	6.52
			For Work In Restricted Working Space, Add	2.67	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.67	
26 05 33	13-2390	EA	1" Flexible Straight Connectors, Plain.....	18.07	7.11
			For Work In Restricted Working Space, Add	3.56	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.56	
26 05 33	13-2391	EA	1-1/4" Flexible Straight Connectors, Plain	25.00	8.31
			For Work In Restricted Working Space, Add	4.45	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.45	
26 05 33	13-2392	EA	1-1/2" Flexible Straight Connectors, Plain	32.65	10.08
			For Work In Restricted Working Space, Add	5.56	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.56	
26 05 33	13-2393	EA	2" Flexible Straight Connectors, Plain.....	42.33	10.08
			For Work In Restricted Working Space, Add	6.67	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.67	
26 05 33	13-2394	EA	2-1/2" Flexible Straight Connectors, Plain	65.41	12.45
			For Work In Restricted Working Space, Add	7.79	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.79	
26 05 33	13-2395	EA	3" Flexible Straight Connectors, Plain.....	84.35	13.63
			For Work In Restricted Working Space, Add	8.90	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.90	
26 05 33	13-2396	EA	3-1/2" Flexible Straight Connectors, Plain	244.91	16.01
			For Work In Restricted Working Space, Add	10.01	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.01	
26 05 33	13-2397	EA	4" Flexible Straight Connectors, Plain.....	304.70	19.57
			For Work In Restricted Working Space, Add	11.12	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.12	
26 05 33 13-2398 Insulated Throat Squeeze Type Straight Connector (26 05 33 13-2373)					
26 05 33	13-2399	EA	1/2" Flexible Straight Connectors, Insulated	11.02	5.34
			For Work In Restricted Working Space, Add	2.22	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.22	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2400	EA	3/4" Flexible Straight Connectors, Insulated	12.95	6.52
		For Work In Restricted Working Space, Add	2.67	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.67	
26 05 33 13-2401	EA	1" Flexible Straight Connectors, Insulated	19.72	7.11
		For Work In Restricted Working Space, Add	3.56	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.56	
26 05 33 13-2402	EA	1-1/4" Flexible Straight Connectors, Insulated	28.04	8.31
		For Work In Restricted Working Space, Add	4.45	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.45	
26 05 33 13-2403	EA	1-1/2" Flexible Straight Connectors, Insulated	38.05	8.90
		For Work In Restricted Working Space, Add	5.56	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.56	
26 05 33 13-2404	EA	2" Flexible Straight Connectors, Insulated	51.86	10.08
		For Work In Restricted Working Space, Add	6.67	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.67	
26 05 33 13-2405	EA	2-1/2" Flexible Straight Connectors, Insulated	85.81	12.45
		For Work In Restricted Working Space, Add	7.79	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.79	
26 05 33 13-2406	EA	3" Flexible Straight Connectors, Insulated	108.40	13.63
		For Work In Restricted Working Space, Add	8.90	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.90	
26 05 33 13-2407	EA	3-1/2" Flexible Straight Connectors, Insulated	281.98	16.01
		For Work In Restricted Working Space, Add	10.01	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.01	
26 05 33 13-2408	EA	4" Flexible Straight Connectors, Insulated	360.43	19.57
		For Work In Restricted Working Space, Add	11.12	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.12	
26 05 33 13-2409 Plain Squeeze Type 90 Degree Connector (26 05 33 13-2373)				
26 05 33 13-2410	EA	3/8" Flexible 90 Degree Connector, Plain	11.61	5.93
		For Work In Restricted Working Space, Add	2.67	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.67	
26 05 33 13-2411	EA	1/2" Flexible 90 Degree Connector, Plain	14.92	6.52
		For Work In Restricted Working Space, Add	3.11	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.11	
26 05 33 13-2412	EA	3/4" Flexible 90 Degree Connector, Plain	18.97	7.11
		For Work In Restricted Working Space, Add	3.56	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.56	
26 05 33 13-2413	EA	1" Flexible 90 Degree Connector, Plain	26.04	8.31
		For Work In Restricted Working Space, Add	4.45	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.45	
26 05 33 13-2414	EA	1-1/4" Flexible 90 Degree Connector, Plain	39.08	8.90
		For Work In Restricted Working Space, Add	5.34	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.34	
26 05 33 13-2415	EA	1-1/2" Flexible 90 Degree Connector, Plain	59.44	10.38
		For Work In Restricted Working Space, Add	6.67	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.67	
26 05 33 13-2416	EA	2" Flexible 90 Degree Connector, Plain	71.22	12.75
		For Work In Restricted Working Space, Add	7.56	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.56	
26 05 33 13-2417	EA	2-1/2" Flexible 90 Degree Connector, Plain	149.57	13.63
		For Work In Restricted Working Space, Add	8.90	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.90	
26 05 33 13-2418	EA	3" Flexible 90 Degree Connector, Plain	190.79	16.01
		For Work In Restricted Working Space, Add	10.01	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.01	
26 05 33 13-2419	EA	3-1/2" Flexible 90 Degree Connector, Plain	395.09	19.57
		For Work In Restricted Working Space, Add	11.12	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.12	
26 05 33 13-2420	EA	4" Flexible 90 Degree Connector, Plain	699.63	22.24
		For Work In Restricted Working Space, Add	13.34	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.34	
26 05 33 13-2421 Insulated Throat Squeeze Type 90 Degree Connector (26 05 33 13-2373)				
26 05 33 13-2422	EA	1/2" Flexible 90 Degree Connector, Insulated	16.20	6.52
		For Work In Restricted Working Space, Add	3.11	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.11	
26 05 33 13-2423	EA	3/4" Flexible 90 Degree Connector, Insulated	20.55	7.11
		For Work In Restricted Working Space, Add	3.56	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.56	
26 05 33 13-2424	EA	1" Flexible 90 Degree Connector, Insulated	26.04	8.31
		For Work In Restricted Working Space, Add	4.45	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.45	
26 05 33 13-2425	EA	1-1/4" Flexible 90 Degree Connector, Insulated	44.71	8.90
		For Work In Restricted Working Space, Add	5.34	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.34	
26 05 33 13-2426	EA	1-1/2" Flexible 90 Degree Connector, Insulated	69.67	10.38
		For Work In Restricted Working Space, Add	6.67	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.67	
26 05 33 13-2427	EA	2" Flexible 90 Degree Connector, Insulated	87.83	12.75
		For Work In Restricted Working Space, Add	7.56	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.56	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2428 EA 2-1/2" Flexible 90 Degree Connector, Insulated For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	201.51 8.90 8.90	13.63
26 05 33 13-2429 EA 3" Flexible 90 Degree Connector, Insulated For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	247.06 10.01 10.01	16.01
26 05 33 13-2430 EA 3-1/2" Flexible 90 Degree Connector, Insulated For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	650.13 11.12 11.12	19.57
26 05 33 13-2431 EA 4" Flexible 90 Degree Connector, Insulated For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	966.75 13.34 13.34	22.24
26 05 33 13-2432 Plain Squeeze Type 45 Degree Connector (26 05 33 13-2373)		
26 05 33 13-2433 EA 3/8" Flexible 45 Degree Connector, Plain For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.64 2.67 2.67	5.93
26 05 33 13-2434 EA 1/2" Flexible 45 Degree Connector, Plain For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.58 3.11 3.11	6.52
26 05 33 13-2435 EA 3/4" Flexible 45 Degree Connector, Plain For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.82 3.56 3.56	7.11
26 05 33 13-2436 Insulated Squeeze Type 45 Degree Connector (26 05 33 13-2373)		
26 05 33 13-2437 EA 3/8" Flexible 45 Degree Connector, Insulated For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.36 2.67 2.67	7.11
26 05 33 13-2438 EA 1/2" Flexible 45 Degree Connector, Insulated For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.75 3.11 3.11	6.52
26 05 33 13-2439 EA 3/4" Flexible 45 Degree Connector, Insulated For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.48 3.56 3.56	7.11
26 05 33 13-2440 Plain Screw-In Connector (26 05 33 13-2373)		
26 05 33 13-2441 EA 3/8" Flexible Steel Screw-in Connector, Plain For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.29 2.00 2.00	4.75
26 05 33 13-2442 EA 1/2" Flexible Steel Screw-in Connector, Plain For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.93 2.22 2.22	5.34
26 05 33 13-2443 EA 3/4" Flexible Steel Screw-in Connector, Plain For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.95 2.67 2.67	6.52
26 05 33 13-2444 EA 1" Flexible Steel Screw-in Connector, Plain For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.98 3.56 3.56	7.11
26 05 33 13-2445 EA 1-1/4" Flexible Steel Screw-in Connector, Plain For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.79 4.45 4.45	8.31
26 05 33 13-2446 EA 1-1/2" Flexible Steel Screw-in Connector, Plain For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	24.31 5.56 5.56	8.90
26 05 33 13-2447 EA 2" Flexible Steel Screw-in Connector, Plain For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.23 6.67 6.67	10.08
26 05 33 13-2448 Insulated Screw-In Connector (26 05 33 13-2373)		
26 05 33 13-2449 EA 3/8" Flexible Steel Screw-in Connector, Insulated For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.60 2.00 2.00	4.75
26 05 33 13-2450 EA 1/2" Flexible Steel Screw-in Connector, Insulated For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.17 2.22 2.22	5.34
26 05 33 13-2451 EA 3/4" Flexible Steel Screw-in Connector, Insulated For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.58 2.67 2.67	6.52
26 05 33 13-2452 EA 1" Flexible Steel Screw-in Connector, Insulated For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.94 3.56 3.56	7.11
26 05 33 13-2453 EA 1-1/4" Flexible Steel Screw-in Connector, Insulated For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.16 4.45 4.45	8.31
26 05 33 13-2454 EA 1-1/2" Flexible Steel Screw-in Connector, Insulated For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.94 5.56 5.56	8.90
26 05 33 13-2455 EA 2" Flexible Steel Screw-in Connector, Insulated For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.68 6.67 6.67	10.08

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2456 Screw-In Coupling (26 05 33 13-2373)		
26 05 33 13-2457 EA 1/2" Flexible Steel Screw-in Coupling	8.53	5.34
For Work In Restricted Working Space, Add	2.22	
26 05 33 13-2458 EA 3/4" Flexible Steel Screw-in Coupling	10.95	6.52
For Work In Restricted Working Space, Add	2.67	
26 05 33 13-2459 Flexible To Electrical Metallic Tubing (EMT) Coupling (26 05 33 13-2373)		
26 05 33 13-2460 EA 3/8" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling	10.48	4.75
For Work In Restricted Working Space, Add	2.00	
26 05 33 13-2461 EA 1/2" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling	13.77	5.34
For Work In Restricted Working Space, Add	2.22	
26 05 33 13-2462 EA 3/4" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling	17.94	6.52
For Work In Restricted Working Space, Add	2.67	
26 05 33 13-2463 Die Cast Squeeze Type Straight Connector (26 05 33 13-2373)		
26 05 33 13-2464 EA 3/8" Flexible Straight Connector, Die Cast	7.49	4.75
For Work In Restricted Working Space, Add	2.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.00	
26 05 33 13-2465 EA 1/2" Flexible Straight Connector, Die Cast	8.43	5.34
For Work In Restricted Working Space, Add	2.22	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.22	
26 05 33 13-2466 EA 3/4" Flexible Straight Connector, Die Cast	10.38	6.52
For Work In Restricted Working Space, Add	2.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.67	
26 05 33 13-2467 EA 1" Flexible Straight Connector, Die Cast	15.16	7.11
For Work In Restricted Working Space, Add	3.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.56	
26 05 33 13-2468 EA 1-1/4" Flexible Straight Connector, Die Cast	20.08	8.31
For Work In Restricted Working Space, Add	4.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.45	
26 05 33 13-2469 EA 1-1/2" Flexible Straight Connector, Die Cast	26.77	8.90
For Work In Restricted Working Space, Add	5.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.56	
26 05 33 13-2470 EA 2" Flexible Straight Connector, Die Cast	34.10	10.08
For Work In Restricted Working Space, Add	6.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.67	
26 05 33 13-2471 Die Cast Squeeze Type 90 Degree Connector (26 05 33 13-2373)		
26 05 33 13-2472 EA 3/8" Flexible 90 Degree Connector, Die Cast	9.94	5.93
For Work In Restricted Working Space, Add	2.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.67	
26 05 33 13-2473 EA 1/2" Flexible 90 Degree Connector, Die Cast	12.13	6.52
For Work In Restricted Working Space, Add	3.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.11	
26 05 33 13-2474 EA 3/4" Flexible 90 Degree Connector, Die Cast	14.49	7.11
For Work In Restricted Working Space, Add	3.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.56	
26 05 33 13-2475 EA 1" Flexible 90 Degree Connector, Die Cast	21.79	8.31
For Work In Restricted Working Space, Add	4.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.45	
26 05 33 13-2476 EA 1-1/4" Flexible 90 Degree Connector, Die Cast	29.94	8.90
For Work In Restricted Working Space, Add	5.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.34	
26 05 33 13-2477 EA 1-1/2" Flexible 90 Degree Connector, Die Cast	44.92	10.38
For Work In Restricted Working Space, Add	6.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.67	
26 05 33 13-2478 EA 2" Flexible 90 Degree Connector, Die Cast	53.30	12.75
For Work In Restricted Working Space, Add	7.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.56	
26 05 33 13-2479 Flexible Liquid Tight Non-Metallic Conduit And Connectors (26 05 33 13-2331)		
26 05 33 13-2480 Flexible Liquid Tight Non-Metallic Conduit (26 05 33 13-2479)		
26 05 33 13-2481 LF 3/8" Flexible Liquid Tight Non-Metallic Conduit	4.76	1.62
For Work In Restricted Working Space, Add	1.22	
26 05 33 13-2482 LF 1/2" Flexible Liquid Tight Non-Metallic Conduit	4.82	1.62
For Work In Restricted Working Space, Add	1.22	
26 05 33 13-2483 LF 3/4" Flexible Liquid Tight Non-Metallic Conduit	6.45	2.16
For Work In Restricted Working Space, Add	1.63	
26 05 33 13-2484 LF 1" Flexible Liquid Tight Non-Metallic Conduit	7.50	2.16
For Work In Restricted Working Space, Add	1.63	
26 05 33 13-2485 LF 1-1/4" Flexible Liquid Tight Non-Metallic Conduit	9.48	2.71
For Work In Restricted Working Space, Add	2.03	
26 05 33 13-2486 LF 1-1/2" Flexible Liquid Tight Non-Metallic Conduit	11.90	3.25
For Work In Restricted Working Space, Add	2.44	
26 05 33 13-2487 LF 2" Flexible Liquid Tight Non-Metallic Conduit	15.43	4.34
For Work In Restricted Working Space, Add	3.25	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2488			Liquid Tight Non-Metallic Straight Connector (26 05 33 13-2479)		
26 05 33 13-2489	EA		3/8" Liquid Tight Non-Metallic Straight Connector	13.37	4.34
			For Work In Restricted Working Space, Add	3.25	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.25	
26 05 33 13-2490	EA		1/2" Liquid Tight Non-Metallic Straight Connector	13.37	4.34
			For Work In Restricted Working Space, Add	3.25	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.25	
26 05 33 13-2491	EA		3/4" Liquid Tight Non-Metallic Straight Connector	15.95	4.88
			For Work In Restricted Working Space, Add	3.66	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.66	
26 05 33 13-2492	EA		1" Liquid Tight Non-Metallic Straight Connector	19.19	5.42
			For Work In Restricted Working Space, Add	4.07	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.07	
26 05 33 13-2493	EA		1-1/4" Liquid Tight Non-Metallic Straight Connector	25.02	5.96
			For Work In Restricted Working Space, Add	4.47	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.47	
26 05 33 13-2494	EA		1-1/2" Liquid Tight Non-Metallic Straight Connector	30.34	6.50
			For Work In Restricted Working Space, Add	4.88	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 05 33 13-2495	EA		2" Liquid Tight Non-Metallic Straight Connector	44.81	7.59
			For Work In Restricted Working Space, Add	5.69	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69	
26 05 33 13-2496			Liquid Tight Non-Metallic 90 Degree Angle Connector (26 05 33 13-2479)		
26 05 33 13-2497	EA		3/8" Liquid Tight Non-Metallic 90 Degree Angle Connector	19.03	5.96
			For Work In Restricted Working Space, Add	4.47	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.47	
26 05 33 13-2498	EA		1/2" Liquid Tight Non-Metallic 90 Degree Angle Connector	19.03	5.96
			For Work In Restricted Working Space, Add	4.47	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.47	
26 05 33 13-2499	EA		3/4" Liquid Tight Non-Metallic 90 Degree Angle Connector	22.60	6.50
			For Work In Restricted Working Space, Add	4.88	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 05 33 13-2500	EA		1" Liquid Tight Non-Metallic 90 Degree Angle Connector	30.42	7.59
			For Work In Restricted Working Space, Add	5.69	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69	
26 05 33 13-2501	EA		1-1/4" Liquid Tight Non-Metallic 90 Degree Angle Connector	31.72	8.13
			For Work In Restricted Working Space, Add	6.10	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.10	
26 05 33 13-2502	EA		1-1/2" Liquid Tight Non-Metallic 90 Degree Angle Connector	46.12	8.67
			For Work In Restricted Working Space, Add	6.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.50	
26 05 33 13-2503	EA		2" Liquid Tight Non-Metallic 90 Degree Angle Connector	60.15	9.75
			For Work In Restricted Working Space, Add	7.31	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.31	
26 05 33 13-2504			Liquid Tight Non-Metallic 45 Degree Angle Connector (26 05 33 13-2479)		
26 05 33 13-2505	EA		3/8" Liquid Tight Non-Metallic 45 Degree Angle Connector	19.03	5.96
			For Work In Restricted Working Space, Add	4.47	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.47	
26 05 33 13-2506	EA		1/2" Liquid Tight Non-Metallic 45 Degree Angle Connector	19.03	5.96
			For Work In Restricted Working Space, Add	4.47	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.47	
26 05 33 13-2507	EA		3/4" Liquid Tight Non-Metallic 45 Degree Angle Connector	22.60	6.50
			For Work In Restricted Working Space, Add	4.88	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.88	
26 05 33 13-2508	EA		1" Liquid Tight Non-Metallic 45 Degree Angle Connector	30.42	7.59
			For Work In Restricted Working Space, Add	5.69	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.69	
26 05 33 13-2509	EA		1-1/4" Liquid Tight Non-Metallic 45 Degree Angle Connector	31.72	8.13
			For Work In Restricted Working Space, Add	6.10	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.10	
26 05 33 13-2510	EA		1-1/2" Liquid Tight Non-Metallic 45 Degree Angle Connector	46.12	8.67
			For Work In Restricted Working Space, Add	6.50	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.50	
26 05 33 13-2511	EA		2" Liquid Tight Non-Metallic 45 Degree Angle Connector	60.15	9.75
			For Work In Restricted Working Space, Add	7.31	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.31	
26 05 33 13-2512			Blue ENT Electrical Non-Metallic Tubing (26 05 33 13-2331)		
			Note: Carlon - FLEX-PLUS.		
26 05 33 13-2513			Blue ENT Electrical Non-Metallic Tubing (26 05 33 13-2512)		
26 05 33 13-2514	LF		1/2" Blue ENT Electrical Non-Metallic Tubing	5.88	1.78
			For Work In Restricted Working Space, Add	1.34	
26 05 33 13-2515	LF		3/4" Blue ENT Electrical Non-Metallic Tubing	7.92	2.37
			For Work In Restricted Working Space, Add	1.78	
26 05 33 13-2516	LF		1" Blue ENT Electrical Non-Metallic Tubing	9.14	2.37
			For Work In Restricted Working Space, Add	1.78	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2517 Terminal Adapter (26 05 33 13-2512)		
26 05 33 13-2518 EA 1/2" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing.....	14.21	4.75
For Work In Restricted Working Space, Add	3.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.56	
26 05 33 13-2519 EA 3/4" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing.....	17.62	5.34
For Work In Restricted Working Space, Add	4.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.00	
26 05 33 13-2520 EA 1" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing.....	20.34	5.93
For Work In Restricted Working Space, Add	4.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.45	
26 05 33 13-2521 Coupling (26 05 33 13-2512)		
26 05 33 13-2522 EA 1/2" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing.....	13.90	4.75
For Work In Restricted Working Space, Add	3.56	
26 05 33 13-2523 EA 3/4" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing.....	15.99	5.34
For Work In Restricted Working Space, Add	4.00	
26 05 33 13-2524 EA 1" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing.....	18.81	5.93
For Work In Restricted Working Space, Add	4.45	
26 05 33 13-2525 Metallic Conduit Bodies (26 05 33 13-0057)		
26 05 33 13-2526 Threaded, Cast Aluminum Conduit Body (26 05 33 13-2525)		
Note: For use with Rigid Galvanized Steel (RGS), Galvanized Rigid Steel Conduit (GRC), Intermediate Metal Conduit (IMC), or Aluminum Rigid Conduit (ARC)		
26 05 33 13-2527 Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2526)		
26 05 33 13-2528 EA 1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	74.57	26.00
For Mogul LB, Add	3.91	
For Work In Restricted Working Space, Add	19.51	
For Elevated Installation >10' To 15', Add	6.50	
For Elevated Installation >15' To 20', Add	13.00	
For Elevated Installation >20' To 25', Add	16.26	
For Elevated Installation >25' To 30', Add	22.76	
For Elevated Installation >30' To 35', Add	26.01	
For Elevated Installation >35' To 40', Add	32.51	
For Elevated Installation >40', Add	35.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.51	
26 05 33 13-2529 EA 3/4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	87.46	29.80
For Mogul LB, Add	6.00	
For Work In Restricted Working Space, Add	22.35	
For Elevated Installation >10' To 15', Add	7.45	
For Elevated Installation >15' To 20', Add	14.90	
For Elevated Installation >20' To 25', Add	18.62	
For Elevated Installation >25' To 30', Add	26.07	
For Elevated Installation >30' To 35', Add	29.80	
For Elevated Installation >35' To 40', Add	37.25	
For Elevated Installation >40', Add	40.97	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.35	
26 05 33 13-2530 EA 1" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	105.15	34.67
For Mogul LB, Add	9.51	
For Work In Restricted Working Space, Add	26.01	
For Elevated Installation >10' To 15', Add	8.67	
For Elevated Installation >15' To 20', Add	17.34	
For Elevated Installation >20' To 25', Add	21.67	
For Elevated Installation >25' To 30', Add	30.34	
For Elevated Installation >30' To 35', Add	34.68	
For Elevated Installation >35' To 40', Add	43.35	
For Elevated Installation >40', Add	47.68	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.01	
26 05 33 13-2531 EA 1-1/4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	126.44	39.55
For Mogul LB, Add	15.73	
For Work In Restricted Working Space, Add	29.66	
For Elevated Installation >10' To 15', Add	9.89	
For Elevated Installation >15' To 20', Add	19.78	
For Elevated Installation >20' To 25', Add	24.72	
For Elevated Installation >25' To 30', Add	34.61	
For Elevated Installation >30' To 35', Add	39.55	
For Elevated Installation >35' To 40', Add	49.44	
For Elevated Installation >40', Add	54.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.66	
26 05 33 13-2532 EA 1-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	143.92	43.34
For Mogul LB, Add	21.25	
For Work In Restricted Working Space, Add	32.51	
For Elevated Installation >10' To 15', Add	10.84	
For Elevated Installation >15' To 20', Add	21.67	
For Elevated Installation >20' To 25', Add	27.09	
For Elevated Installation >25' To 30', Add	37.93	
For Elevated Installation >30' To 35', Add	43.34	
For Elevated Installation >35' To 40', Add	54.18	
For Elevated Installation >40', Add	59.60	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2533	EA		2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	187.47	52.02
			For Mogul LB, Add	36.58	
			For Work In Restricted Working Space, Add	39.01	
			For Elevated Installation >10' To 15', Add	13.00	
			For Elevated Installation >15' To 20', Add	26.01	
			For Elevated Installation >20' To 25', Add	32.51	
			For Elevated Installation >25' To 30', Add	45.51	
			For Elevated Installation >30' To 35', Add	52.01	
			For Elevated Installation >35' To 40', Add	65.02	
			For Elevated Installation >40', Add	71.52	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.01	
26 05 33 13-2534	EA		2-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	309.98	73.14
			For Mogul LB, Add	86.20	
			For Work In Restricted Working Space, Add	54.86	
			For Elevated Installation >10' To 15', Add	18.29	
			For Elevated Installation >15' To 20', Add	36.57	
			For Elevated Installation >20' To 25', Add	45.72	
			For Elevated Installation >25' To 30', Add	64.00	
			For Elevated Installation >30' To 35', Add	73.14	
			For Elevated Installation >35' To 40', Add	91.43	
			For Elevated Installation >40', Add	100.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	54.86	
26 05 33 13-2535	EA		3" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	407.95	97.52
			For Mogul LB, Add	110.91	
			For Work In Restricted Working Space, Add	73.15	
			For Elevated Installation >10' To 15', Add	24.38	
			For Elevated Installation >15' To 20', Add	48.76	
			For Elevated Installation >20' To 25', Add	60.96	
			For Elevated Installation >25' To 30', Add	85.34	
			For Elevated Installation >30' To 35', Add	97.53	
			For Elevated Installation >35' To 40', Add	121.91	
			For Elevated Installation >40', Add	134.10	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.15	
26 05 33 13-2536	EA		3-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	539.50	121.90
			For Mogul LB, Add	160.82	
			For Work In Restricted Working Space, Add	91.43	
			For Elevated Installation >10' To 15', Add	30.48	
			For Elevated Installation >15' To 20', Add	60.95	
			For Elevated Installation >20' To 25', Add	76.19	
			For Elevated Installation >25' To 30', Add	106.67	
			For Elevated Installation >30' To 35', Add	121.90	
			For Elevated Installation >35' To 40', Add	152.38	
			For Elevated Installation >40', Add	167.62	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	91.43	
26 05 33 13-2537	EA		4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	697.33	148.46
			For Mogul LB, Add	226.09	
			For Work In Restricted Working Space, Add	111.34	
			For Elevated Installation >10' To 15', Add	37.11	
			For Elevated Installation >15' To 20', Add	74.23	
			For Elevated Installation >20' To 25', Add	92.79	
			For Elevated Installation >25' To 30', Add	129.90	
			For Elevated Installation >30' To 35', Add	148.46	
			For Elevated Installation >35' To 40', Add	185.57	
			For Elevated Installation >40', Add	204.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	111.34	
26 05 33 13-2538			Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2526)		
26 05 33 13-2539	EA		1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	75.73	26.00
			For Mogul LB, Add	4.78	
			For Work In Restricted Working Space, Add	19.51	
			For Elevated Installation >10' To 15', Add	6.50	
			For Elevated Installation >15' To 20', Add	13.00	
			For Elevated Installation >20' To 25', Add	16.26	
			For Elevated Installation >25' To 30', Add	22.76	
			For Elevated Installation >30' To 35', Add	26.01	
			For Elevated Installation >35' To 40', Add	32.51	
			For Elevated Installation >40', Add	35.76	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.51	
26 05 33 13-2540	EA		3/4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	88.59	29.80
			For Mogul LB, Add	6.85	
			For Work In Restricted Working Space, Add	22.35	
			For Elevated Installation >10' To 15', Add	7.45	
			For Elevated Installation >15' To 20', Add	14.90	
			For Elevated Installation >20' To 25', Add	18.62	
			For Elevated Installation >25' To 30', Add	26.07	
			For Elevated Installation >30' To 35', Add	29.80	
			For Elevated Installation >35' To 40', Add	37.25	
			For Elevated Installation >40', Add	40.97	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.35	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2541	EA		1" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	107.43	34.67
			For Mogul LB, Add	11.22	
			For Work In Restricted Working Space, Add	26.01	
			For Elevated Installation >10' To 15', Add	8.67	
			For Elevated Installation >15' To 20', Add	17.34	
			For Elevated Installation >20' To 25', Add	21.67	
			For Elevated Installation >25' To 30', Add	30.34	
			For Elevated Installation >30' To 35', Add	34.68	
			For Elevated Installation >35' To 40', Add	43.35	
			For Elevated Installation >40', Add	47.68	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.01	
26 05 33 13-2542	EA		1-1/4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	129.22	39.55
			For Mogul LB, Add	17.81	
			For Work In Restricted Working Space, Add	29.66	
			For Elevated Installation >10' To 15', Add	9.89	
			For Elevated Installation >15' To 20', Add	19.78	
			For Elevated Installation >20' To 25', Add	24.72	
			For Elevated Installation >25' To 30', Add	34.61	
			For Elevated Installation >30' To 35', Add	39.55	
			For Elevated Installation >35' To 40', Add	49.44	
			For Elevated Installation >40', Add	54.38	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.66	
26 05 33 13-2543	EA		1-1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	148.65	43.34
			For Mogul LB, Add	24.80	
			For Work In Restricted Working Space, Add	32.51	
			For Elevated Installation >10' To 15', Add	10.84	
			For Elevated Installation >15' To 20', Add	21.67	
			For Elevated Installation >20' To 25', Add	27.09	
			For Elevated Installation >25' To 30', Add	37.93	
			For Elevated Installation >30' To 35', Add	43.34	
			For Elevated Installation >35' To 40', Add	54.18	
			For Elevated Installation >40', Add	59.60	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 05 33 13-2544	EA		2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	197.62	52.02
			For Mogul LB, Add	44.19	
			For Work In Restricted Working Space, Add	39.01	
			For Elevated Installation >10' To 15', Add	13.00	
			For Elevated Installation >15' To 20', Add	26.01	
			For Elevated Installation >20' To 25', Add	32.51	
			For Elevated Installation >25' To 30', Add	45.51	
			For Elevated Installation >30' To 35', Add	52.01	
			For Elevated Installation >35' To 40', Add	65.02	
			For Elevated Installation >40', Add	71.52	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.01	
26 05 33 13-2545	EA		2-1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	304.86	73.14
			For Mogul LB, Add	82.36	
			For Work In Restricted Working Space, Add	54.86	
			For Elevated Installation >10' To 15', Add	18.29	
			For Elevated Installation >15' To 20', Add	36.57	
			For Elevated Installation >20' To 25', Add	45.72	
			For Elevated Installation >25' To 30', Add	64.00	
			For Elevated Installation >30' To 35', Add	73.14	
			For Elevated Installation >35' To 40', Add	91.43	
			For Elevated Installation >40', Add	100.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	54.86	
26 05 33 13-2546	EA		3" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	390.73	97.52
			For Mogul LB, Add	97.99	
			For Work In Restricted Working Space, Add	73.15	
			For Elevated Installation >10' To 15', Add	24.38	
			For Elevated Installation >15' To 20', Add	48.76	
			For Elevated Installation >20' To 25', Add	60.96	
			For Elevated Installation >25' To 30', Add	85.34	
			For Elevated Installation >30' To 35', Add	97.53	
			For Elevated Installation >35' To 40', Add	121.91	
			For Elevated Installation >40', Add	134.10	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.15	
26 05 33 13-2547	EA		3-1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	554.19	121.90
			For Mogul LB, Add	171.83	
			For Work In Restricted Working Space, Add	91.43	
			For Elevated Installation >10' To 15', Add	30.48	
			For Elevated Installation >15' To 20', Add	60.95	
			For Elevated Installation >20' To 25', Add	76.19	
			For Elevated Installation >25' To 30', Add	106.67	
			For Elevated Installation >30' To 35', Add	121.90	
			For Elevated Installation >35' To 40', Add	152.38	
			For Elevated Installation >40', Add	167.62	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	91.43	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2548	EA	4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	727.35	148.46
		For Mogul LB, Add	248.60	
		For Work In Restricted Working Space, Add	111.34	
		For Elevated Installation >10' To 15', Add	37.11	
		For Elevated Installation >15' To 20', Add	74.23	
		For Elevated Installation >20' To 25', Add	92.79	
		For Elevated Installation >25' To 30', Add	129.90	
		For Elevated Installation >30' To 35', Add	148.46	
		For Elevated Installation >35' To 40', Add	185.57	
		For Elevated Installation >40', Add	204.13	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	111.34	
26 05 33 13-2549 Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover (26 05				
		33 13-2526)		
26 05 33 13-2550	EA	1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	87.15	29.80
		For Work In Restricted Working Space, Add	22.35	
		For Elevated Installation >10' To 15', Add	7.45	
		For Elevated Installation >15' To 20', Add	14.90	
		For Elevated Installation >20' To 25', Add	18.62	
		For Elevated Installation >25' To 30', Add	26.07	
		For Elevated Installation >30' To 35', Add	29.80	
		For Elevated Installation >35' To 40', Add	37.25	
		For Elevated Installation >40', Add	40.97	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.35	
26 05 33 13-2551	EA	3/4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	102.99	34.67
		For Work In Restricted Working Space, Add	26.01	
		For Elevated Installation >10' To 15', Add	8.67	
		For Elevated Installation >15' To 20', Add	17.34	
		For Elevated Installation >20' To 25', Add	21.67	
		For Elevated Installation >25' To 30', Add	30.34	
		For Elevated Installation >30' To 35', Add	34.68	
		For Elevated Installation >35' To 40', Add	43.35	
		For Elevated Installation >40', Add	47.68	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.01	
26 05 33 13-2552	EA	1" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	117.89	37.93
		For Work In Restricted Working Space, Add	28.45	
		For Elevated Installation >10' To 15', Add	9.48	
		For Elevated Installation >15' To 20', Add	18.96	
		For Elevated Installation >20' To 25', Add	23.71	
		For Elevated Installation >25' To 30', Add	33.19	
		For Elevated Installation >30' To 35', Add	37.93	
		For Elevated Installation >35' To 40', Add	47.41	
		For Elevated Installation >40', Add	52.15	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.45	
26 05 33 13-2553	EA	1-1/4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	143.33	43.34
		For Work In Restricted Working Space, Add	32.51	
		For Elevated Installation >10' To 15', Add	10.84	
		For Elevated Installation >15' To 20', Add	21.67	
		For Elevated Installation >20' To 25', Add	27.09	
		For Elevated Installation >25' To 30', Add	37.93	
		For Elevated Installation >30' To 35', Add	43.34	
		For Elevated Installation >35' To 40', Add	54.18	
		For Elevated Installation >40', Add	59.60	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 05 33 13-2554	EA	1-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	164.64	47.68
		For Work In Restricted Working Space, Add	35.76	
		For Elevated Installation >10' To 15', Add	11.92	
		For Elevated Installation >15' To 20', Add	23.84	
		For Elevated Installation >20' To 25', Add	29.80	
		For Elevated Installation >25' To 30', Add	41.72	
		For Elevated Installation >30' To 35', Add	47.68	
		For Elevated Installation >35' To 40', Add	59.60	
		For Elevated Installation >40', Add	65.56	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.76	
26 05 33 13-2555	EA	2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	217.24	55.81
		For Work In Restricted Working Space, Add	41.86	
		For Elevated Installation >10' To 15', Add	13.95	
		For Elevated Installation >15' To 20', Add	27.90	
		For Elevated Installation >20' To 25', Add	34.88	
		For Elevated Installation >25' To 30', Add	48.83	
		For Elevated Installation >30' To 35', Add	55.81	
		For Elevated Installation >35' To 40', Add	69.76	
		For Elevated Installation >40', Add	76.74	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.86	
26 05 33 13-2556	EA	2-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	340.51	81.27
		For Work In Restricted Working Space, Add	60.95	
		For Elevated Installation >10' To 15', Add	20.32	
		For Elevated Installation >15' To 20', Add	40.64	
		For Elevated Installation >20' To 25', Add	50.80	
		For Elevated Installation >25' To 30', Add	71.11	
		For Elevated Installation >30' To 35', Add	81.27	
		For Elevated Installation >35' To 40', Add	101.59	
		For Elevated Installation >40', Add	111.75	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	60.95	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2557	EA	3" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	.....	440.18	105.65
		For Work In Restricted Working Space, Add	.....	79.24	
		For Elevated Installation >10' To 15', Add	.....	26.41	
		For Elevated Installation >15' To 20', Add	.....	52.83	
		For Elevated Installation >20' To 25', Add	.....	66.03	
		For Elevated Installation >25' To 30', Add	.....	92.45	
		For Elevated Installation >30' To 35', Add	.....	105.65	
		For Elevated Installation >35' To 40', Add	.....	132.07	
		For Elevated Installation >40', Add	.....	145.27	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	79.24	
26 05 33 13-2558	EA	3-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	.....	690.72	130.03
		For Work In Restricted Working Space, Add	.....	97.52	
		For Elevated Installation >10' To 15', Add	.....	32.51	
		For Elevated Installation >15' To 20', Add	.....	65.02	
		For Elevated Installation >20' To 25', Add	.....	81.27	
		For Elevated Installation >25' To 30', Add	.....	113.78	
		For Elevated Installation >30' To 35', Add	.....	130.03	
		For Elevated Installation >35' To 40', Add	.....	162.54	
		For Elevated Installation >40', Add	.....	178.79	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	97.52	
26 05 33 13-2559	EA	4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	.....	794.04	156.59
		For Work In Restricted Working Space, Add	.....	117.44	
		For Elevated Installation >10' To 15', Add	.....	39.15	
		For Elevated Installation >15' To 20', Add	.....	78.29	
		For Elevated Installation >20' To 25', Add	.....	97.86	
		For Elevated Installation >25' To 30', Add	.....	137.01	
		For Elevated Installation >30' To 35', Add	.....	156.58	
		For Elevated Installation >35' To 40', Add	.....	195.73	
		For Elevated Installation >40', Add	.....	215.30	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	117.44	
26 05 33 13-2560		Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	(26 05 33 13-2560)		
26 05 33 13-2561	EA	1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	.....	75.97	26.00
		For Work In Restricted Working Space, Add	.....	19.51	
		For Elevated Installation >10' To 15', Add	.....	6.50	
		For Elevated Installation >15' To 20', Add	.....	13.00	
		For Elevated Installation >20' To 25', Add	.....	16.26	
		For Elevated Installation >25' To 30', Add	.....	22.76	
		For Elevated Installation >30' To 35', Add	.....	26.01	
		For Elevated Installation >35' To 40', Add	.....	32.51	
		For Elevated Installation >40', Add	.....	35.76	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	19.51	
26 05 33 13-2562	EA	3/4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	.....	87.79	29.80
		For Work In Restricted Working Space, Add	.....	22.35	
		For Elevated Installation >10' To 15', Add	.....	7.45	
		For Elevated Installation >15' To 20', Add	.....	14.90	
		For Elevated Installation >20' To 25', Add	.....	18.62	
		For Elevated Installation >25' To 30', Add	.....	26.07	
		For Elevated Installation >30' To 35', Add	.....	29.80	
		For Elevated Installation >35' To 40', Add	.....	37.25	
		For Elevated Installation >40', Add	.....	40.97	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	22.35	
26 05 33 13-2563	EA	1" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	.....	105.15	34.13
		For Work In Restricted Working Space, Add	.....	25.60	
		For Elevated Installation >10' To 15', Add	.....	8.53	
		For Elevated Installation >15' To 20', Add	.....	17.07	
		For Elevated Installation >20' To 25', Add	.....	21.34	
		For Elevated Installation >25' To 30', Add	.....	29.87	
		For Elevated Installation >30' To 35', Add	.....	34.14	
		For Elevated Installation >35' To 40', Add	.....	42.67	
		For Elevated Installation >40', Add	.....	46.94	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	25.60	
26 05 33 13-2564	EA	1-1/4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	.....	128.12	39.55
		For Work In Restricted Working Space, Add	.....	29.66	
		For Elevated Installation >10' To 15', Add	.....	9.89	
		For Elevated Installation >15' To 20', Add	.....	19.78	
		For Elevated Installation >20' To 25', Add	.....	24.72	
		For Elevated Installation >25' To 30', Add	.....	34.61	
		For Elevated Installation >30' To 35', Add	.....	39.55	
		For Elevated Installation >35' To 40', Add	.....	49.44	
		For Elevated Installation >40', Add	.....	54.38	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	29.66	
26 05 33 13-2565	EA	1-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	.....	143.15	43.34
		For Work In Restricted Working Space, Add	.....	32.51	
		For Elevated Installation >10' To 15', Add	.....	10.84	
		For Elevated Installation >15' To 20', Add	.....	21.67	
		For Elevated Installation >20' To 25', Add	.....	27.09	
		For Elevated Installation >25' To 30', Add	.....	37.93	
		For Elevated Installation >30' To 35', Add	.....	43.34	
		For Elevated Installation >35' To 40', Add	.....	54.18	
		For Elevated Installation >40', Add	.....	59.60	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	.....	32.51	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2566	EA		2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover 187.55		52.02
			For Work In Restricted Working Space, Add	39.01	
			For Elevated Installation >10' To 15', Add	13.00	
			For Elevated Installation >15' To 20', Add	26.01	
			For Elevated Installation >20' To 25', Add	32.51	
			For Elevated Installation >25' To 30', Add	45.51	
			For Elevated Installation >30' To 35', Add	52.01	
			For Elevated Installation >35' To 40', Add	65.02	
			For Elevated Installation >40', Add	71.52	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.01	
26 05 33 13-2567	EA		2-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover 300.54		73.14
			For Work In Restricted Working Space, Add	54.86	
			For Elevated Installation >10' To 15', Add	18.29	
			For Elevated Installation >15' To 20', Add	36.57	
			For Elevated Installation >20' To 25', Add	45.72	
			For Elevated Installation >25' To 30', Add	64.00	
			For Elevated Installation >30' To 35', Add	73.14	
			For Elevated Installation >35' To 40', Add	91.43	
			For Elevated Installation >40', Add	100.57	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	54.86	
26 05 33 13-2568	EA		3" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover 387.97		97.52
			For Work In Restricted Working Space, Add	73.15	
			For Elevated Installation >10' To 15', Add	24.38	
			For Elevated Installation >15' To 20', Add	48.76	
			For Elevated Installation >20' To 25', Add	60.96	
			For Elevated Installation >25' To 30', Add	85.34	
			For Elevated Installation >30' To 35', Add	97.53	
			For Elevated Installation >35' To 40', Add	121.91	
			For Elevated Installation >40', Add	134.10	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.15	
26 05 33 13-2569	EA		3-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover 545.36		121.90
			For Work In Restricted Working Space, Add	91.43	
			For Elevated Installation >10' To 15', Add	30.48	
			For Elevated Installation >15' To 20', Add	60.95	
			For Elevated Installation >20' To 25', Add	76.19	
			For Elevated Installation >25' To 30', Add	106.67	
			For Elevated Installation >30' To 35', Add	121.90	
			For Elevated Installation >35' To 40', Add	152.38	
			For Elevated Installation >40', Add	167.62	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	91.43	
26 05 33 13-2570	EA		4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover 700.09		148.46
			For Work In Restricted Working Space, Add	111.34	
			For Elevated Installation >10' To 15', Add	37.11	
			For Elevated Installation >15' To 20', Add	74.23	
			For Elevated Installation >20' To 25', Add	92.79	
			For Elevated Installation >25' To 30', Add	129.90	
			For Elevated Installation >30' To 35', Add	148.46	
			For Elevated Installation >35' To 40', Add	185.57	
			For Elevated Installation >40', Add	204.13	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	111.34	
26 05 33 13-2571			Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2526)		
26 05 33 13-2572	EA		1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover 100.88		34.13
			For Work In Restricted Working Space, Add	25.60	
			For Elevated Installation >10' To 15', Add	8.53	
			For Elevated Installation >15' To 20', Add	17.07	
			For Elevated Installation >20' To 25', Add	21.34	
			For Elevated Installation >25' To 30', Add	29.87	
			For Elevated Installation >30' To 35', Add	34.14	
			For Elevated Installation >35' To 40', Add	42.67	
			For Elevated Installation >40', Add	46.94	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.60	
26 05 33 13-2573	EA		3/4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover 115.84		37.93
			For Work In Restricted Working Space, Add	28.45	
			For Elevated Installation >10' To 15', Add	9.48	
			For Elevated Installation >15' To 20', Add	18.96	
			For Elevated Installation >20' To 25', Add	23.71	
			For Elevated Installation >25' To 30', Add	33.19	
			For Elevated Installation >30' To 35', Add	37.93	
			For Elevated Installation >35' To 40', Add	47.41	
			For Elevated Installation >40', Add	52.15	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.45	
26 05 33 13-2574	EA		1" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover 139.86		41.72
			For Work In Restricted Working Space, Add	31.29	
			For Elevated Installation >10' To 15', Add	10.43	
			For Elevated Installation >15' To 20', Add	20.86	
			For Elevated Installation >20' To 25', Add	26.08	
			For Elevated Installation >25' To 30', Add	36.51	
			For Elevated Installation >30' To 35', Add	41.72	
			For Elevated Installation >35' To 40', Add	52.15	
			For Elevated Installation >40', Add	57.37	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.29	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2575 EA 1-1/4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	161.07	47.68
For Work In Restricted Working Space, Add	35.76	
For Elevated Installation >10' To 15', Add	11.92	
For Elevated Installation >15' To 20', Add	23.84	
For Elevated Installation >20' To 25', Add	29.80	
For Elevated Installation >25' To 30', Add	41.72	
For Elevated Installation >30' To 35', Add	47.68	
For Elevated Installation >35' To 40', Add	59.60	
For Elevated Installation >40', Add	65.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.76	
26 05 33 13-2576 EA 1-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	203.37	52.02
For Work In Restricted Working Space, Add	39.01	
For Elevated Installation >10' To 15', Add	13.00	
For Elevated Installation >15' To 20', Add	26.01	
For Elevated Installation >20' To 25', Add	32.51	
For Elevated Installation >25' To 30', Add	45.51	
For Elevated Installation >30' To 35', Add	52.01	
For Elevated Installation >35' To 40', Add	65.02	
For Elevated Installation >40', Add	71.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.01	
26 05 33 13-2577 EA 2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	246.31	63.93
For Work In Restricted Working Space, Add	47.95	
For Elevated Installation >10' To 15', Add	15.98	
For Elevated Installation >15' To 20', Add	31.97	
For Elevated Installation >20' To 25', Add	39.96	
For Elevated Installation >25' To 30', Add	55.94	
For Elevated Installation >30' To 35', Add	63.93	
For Elevated Installation >35' To 40', Add	79.92	
For Elevated Installation >40', Add	87.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.95	
26 05 33 13-2578 EA 2-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	448.91	93.73
For Work In Restricted Working Space, Add	70.30	
For Elevated Installation >10' To 15', Add	23.43	
For Elevated Installation >15' To 20', Add	46.87	
For Elevated Installation >20' To 25', Add	58.59	
For Elevated Installation >25' To 30', Add	82.02	
For Elevated Installation >30' To 35', Add	93.74	
For Elevated Installation >35' To 40', Add	117.17	
For Elevated Installation >40', Add	128.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	70.30	
26 05 33 13-2579 EA 3" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	556.12	121.90
For Work In Restricted Working Space, Add	91.43	
For Elevated Installation >10' To 15', Add	30.48	
For Elevated Installation >15' To 20', Add	60.95	
For Elevated Installation >20' To 25', Add	76.19	
For Elevated Installation >25' To 30', Add	106.67	
For Elevated Installation >30' To 35', Add	121.90	
For Elevated Installation >35' To 40', Add	152.38	
For Elevated Installation >40', Add	167.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	91.43	
26 05 33 13-2580 EA 3-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	784.67	150.62
For Work In Restricted Working Space, Add	113.78	
For Elevated Installation >10' To 15', Add	37.93	
For Elevated Installation >15' To 20', Add	75.85	
For Elevated Installation >20' To 25', Add	94.82	
For Elevated Installation >25' To 30', Add	132.74	
For Elevated Installation >30' To 35', Add	151.71	
For Elevated Installation >35' To 40', Add	189.64	
For Elevated Installation >40', Add	208.60	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	113.78	
26 05 33 13-2581 EA 4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	946.97	180.97
For Work In Restricted Working Space, Add	135.72	
For Elevated Installation >10' To 15', Add	45.24	
For Elevated Installation >15' To 20', Add	90.48	
For Elevated Installation >20' To 25', Add	113.10	
For Elevated Installation >25' To 30', Add	158.34	
For Elevated Installation >30' To 35', Add	180.96	
For Elevated Installation >35' To 40', Add	226.21	
For Elevated Installation >40', Add	248.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	135.72	

26 05 33 13-2582 Threaded, Malleable Iron Conduit Body (26 05 33 13-2525)
 Note: For use with Rigid Galvanized Steel (RGS), Galvanized Rigid Steel Conduit (GRC), or Intermediate Metal Conduit (IMC)

26 05 33 13-2583 Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover (26 05 33 13-2582)

26 05 33 13-2584 EA 1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover	77.82	26.00
For Work In Restricted Working Space, Add	19.51	
For Elevated Installation >10' To 15', Add	6.50	
For Elevated Installation >15' To 20', Add	13.00	
For Elevated Installation >20' To 25', Add	16.26	
For Elevated Installation >25' To 30', Add	22.76	
For Elevated Installation >30' To 35', Add	26.01	
For Elevated Installation >35' To 40', Add	32.51	
For Elevated Installation >40', Add	35.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.51	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2585	EA	3/4"	Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	90.18 22.35 7.45 14.90 18.62 26.07 29.80 37.25 40.97 22.35	29.80
26 05 33 13-2586	EA	1"	Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	110.07 26.01 8.67 17.34 21.67 30.34 34.68 43.35 47.68 26.01	34.67
26 05 33 13-2587	EA	1-1/4"	Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	140.83 29.66 9.89 19.78 24.72 34.61 39.55 49.44 54.38 29.66	39.55
26 05 33 13-2588	EA	1-1/2"	Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	159.82 32.51 10.84 21.67 27.09 37.93 43.34 54.18 59.60 32.51	43.34
26 05 33 13-2589	EA	2"	Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	216.16 39.01 13.00 26.01 32.51 45.51 52.02 65.02 71.52 39.01	52.02
26 05 33 13-2590	EA	2-1/2"	Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	359.15 54.86 18.29 36.57 45.72 64.00 73.15 91.44 100.58 54.86	73.14
26 05 33 13-2591	EA	3"	Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	506.80 73.15 24.38 48.77 60.96 85.34 97.53 121.92 134.11 73.15	97.52
26 05 33 13-2592	EA	3-1/2"	Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	694.09 91.43 30.48 60.95 76.19 106.67 121.91 152.39 167.62 91.43	121.90

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2593 EA 4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	831.51 111.34 37.11 74.23 92.79 129.90 148.46 185.57 204.13 111.34	148.46
26 05 33 13-2594 Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover (26 05 33 13-2582)		
26 05 33 13-2595 EA 1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	80.78 19.51	26.00
26 05 33 13-2596 EA 3/4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	91.05 22.35	29.80
26 05 33 13-2597 EA 1" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	114.60 26.01	34.67
26 05 33 13-2598 EA 1-1/4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	143.86 29.66	39.55
26 05 33 13-2599 EA 1-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	163.53 32.51	43.34
26 05 33 13-2600 EA 2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	208.55 39.01	52.02
26 05 33 13-2601 EA 2-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	316.88 54.86	73.14
26 05 33 13-2602 EA 3" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	430.80 73.15	97.52
26 05 33 13-2603 EA 3-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	738.85 91.43	121.90
26 05 33 13-2604 EA 4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	864.53 111.34	148.46
26 05 33 13-2605 Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover (26 05 33 13-2582)		
26 05 33 13-2606 EA 1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	95.62 22.35 7.45 14.90 18.62 26.07 29.80 37.25 40.97 22.35	29.80
26 05 33 13-2607 EA 3/4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	112.75 26.41 8.80 17.61 22.01 30.81 35.22 44.02 48.42 26.41	34.67
26 05 33 13-2608 EA 1" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	132.19 28.45 9.48 18.96 23.71 33.19 37.93 47.41 52.15 28.45	37.93
26 05 33 13-2609 EA 1-1/4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	164.91 32.10 10.70 21.40 26.75 37.45 42.80 53.50 58.85 32.10	43.34



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2610	EA	1-1/2"	Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	188.79 35.76 11.92 23.84 29.80 41.72 47.68 59.60 65.56 35.76	47.68
26 05 33 13-2611	EA	2"	Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	248.54 41.86 13.95 27.90 34.88 48.83 55.81 69.76 76.74 41.86	55.81
26 05 33 13-2612	EA	2-1/2"	Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	317.56 60.95 20.32 40.64 50.80 71.11 81.27 101.59 111.75 60.95	81.27
26 05 33 13-2613	EA	3"	Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	454.19 79.24 26.41 52.83 66.03 92.45 105.65 132.07 145.27 79.24	105.65
26 05 33 13-2614	EA	3-1/2"	Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	779.83 97.52 32.51 65.02 81.27 113.78 130.03 162.54 178.79 97.52	130.03
26 05 33 13-2615	EA	4"	Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	904.07 117.85 39.28 78.56 98.21 137.49 157.13 196.41 216.05 117.85	156.59
26 05 33 13-2616	Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover (26 05 33 13-2682)				
26 05 33 13-2617	EA	1/2"	Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.04 19.51 6.50 13.00 16.26 22.76 26.01 32.51 35.76 19.51	26.00
26 05 33 13-2618	EA	3/4"	Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	94.02 22.35 7.45 14.90 18.63 26.08 29.80 37.25 40.98 22.35	29.80

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2619	EA	1" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	109.79	34.13
		For Work In Restricted Working Space, Add	25.60	
		For Elevated Installation >10' To 15', Add	8.53	
		For Elevated Installation >15' To 20', Add	17.07	
		For Elevated Installation >20' To 25', Add	21.34	
		For Elevated Installation >25' To 30', Add	29.87	
		For Elevated Installation >30' To 35', Add	34.14	
		For Elevated Installation >35' To 40', Add	42.67	
		For Elevated Installation >40', Add	46.94	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.60	
26 05 33 13-2620	EA	1-1/4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	146.42	39.55
		For Work In Restricted Working Space, Add	29.67	
		For Elevated Installation >10' To 15', Add	9.89	
		For Elevated Installation >15' To 20', Add	19.78	
		For Elevated Installation >20' To 25', Add	24.72	
		For Elevated Installation >25' To 30', Add	34.61	
		For Elevated Installation >30' To 35', Add	39.56	
		For Elevated Installation >35' To 40', Add	49.45	
		For Elevated Installation >40', Add	54.39	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.67	
26 05 33 13-2621	EA	1-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	170.27	43.34
		For Work In Restricted Working Space, Add	32.51	
		For Elevated Installation >10' To 15', Add	10.84	
		For Elevated Installation >15' To 20', Add	21.67	
		For Elevated Installation >20' To 25', Add	27.09	
		For Elevated Installation >25' To 30', Add	37.92	
		For Elevated Installation >30' To 35', Add	43.34	
		For Elevated Installation >35' To 40', Add	54.18	
		For Elevated Installation >40', Add	59.59	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.51	
26 05 33 13-2622	EA	2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	219.15	52.02
		For Work In Restricted Working Space, Add	39.01	
		For Elevated Installation >10' To 15', Add	13.00	
		For Elevated Installation >15' To 20', Add	26.01	
		For Elevated Installation >20' To 25', Add	32.51	
		For Elevated Installation >25' To 30', Add	45.51	
		For Elevated Installation >30' To 35', Add	52.02	
		For Elevated Installation >35' To 40', Add	65.02	
		For Elevated Installation >40', Add	71.52	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.01	
26 05 33 13-2623	EA	2-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	496.04	137.21
		For Work In Restricted Working Space, Add	102.86	
		For Elevated Installation >10' To 15', Add	34.29	
		For Elevated Installation >15' To 20', Add	68.58	
		For Elevated Installation >20' To 25', Add	85.72	
		For Elevated Installation >25' To 30', Add	120.01	
		For Elevated Installation >30' To 35', Add	137.15	
		For Elevated Installation >35' To 40', Add	171.44	
		For Elevated Installation >40', Add	188.58	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	102.86	
26 05 33 13-2624	EA	3" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	462.72	97.52
		For Work In Restricted Working Space, Add	73.15	
		For Elevated Installation >10' To 15', Add	24.38	
		For Elevated Installation >15' To 20', Add	48.77	
		For Elevated Installation >20' To 25', Add	60.96	
		For Elevated Installation >25' To 30', Add	85.34	
		For Elevated Installation >30' To 35', Add	97.53	
		For Elevated Installation >35' To 40', Add	121.92	
		For Elevated Installation >40', Add	134.11	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.15	
26 05 33 13-2625	EA	3-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	738.85	121.90
		For Work In Restricted Working Space, Add	91.43	
		For Elevated Installation >10' To 15', Add	30.48	
		For Elevated Installation >15' To 20', Add	60.95	
		For Elevated Installation >20' To 25', Add	76.19	
		For Elevated Installation >25' To 30', Add	106.67	
		For Elevated Installation >30' To 35', Add	121.91	
		For Elevated Installation >35' To 40', Add	152.39	
		For Elevated Installation >40', Add	167.62	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	91.43	
26 05 33 13-2626	EA	4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	864.51	148.46
		For Work In Restricted Working Space, Add	111.34	
		For Elevated Installation >10' To 15', Add	37.11	
		For Elevated Installation >15' To 20', Add	74.22	
		For Elevated Installation >20' To 25', Add	92.78	
		For Elevated Installation >25' To 30', Add	129.89	
		For Elevated Installation >30' To 35', Add	148.45	
		For Elevated Installation >35' To 40', Add	185.56	
		For Elevated Installation >40', Add	204.12	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	111.34	

26 05 33 13-2627 Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover (26 05 33
13-2582)



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2628	EA	1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	108.77	34.13
			For Work In Restricted Working Space, Add	25.60	
			For Elevated Installation >10' To 15', Add	8.53	
			For Elevated Installation >15' To 20', Add	17.07	
			For Elevated Installation >20' To 25', Add	21.34	
			For Elevated Installation >25' To 30', Add	29.87	
			For Elevated Installation >30' To 35', Add	34.14	
			For Elevated Installation >35' To 40', Add	42.67	
			For Elevated Installation >40', Add	46.94	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.60	
26 05 33	13-2629	EA	3/4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	119.12	37.93
			For Work In Restricted Working Space, Add	28.45	
			For Elevated Installation >10' To 15', Add	9.48	
			For Elevated Installation >15' To 20', Add	18.96	
			For Elevated Installation >20' To 25', Add	23.71	
			For Elevated Installation >25' To 30', Add	33.19	
			For Elevated Installation >30' To 35', Add	37.93	
			For Elevated Installation >35' To 40', Add	47.41	
			For Elevated Installation >40', Add	52.15	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.45	
26 05 33	13-2630	EA	1" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	137.65	41.72
			For Work In Restricted Working Space, Add	31.29	
			For Elevated Installation >10' To 15', Add	10.43	
			For Elevated Installation >15' To 20', Add	20.86	
			For Elevated Installation >20' To 25', Add	26.08	
			For Elevated Installation >25' To 30', Add	36.51	
			For Elevated Installation >30' To 35', Add	41.72	
			For Elevated Installation >35' To 40', Add	52.15	
			For Elevated Installation >40', Add	57.37	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.29	
26 05 33	13-2631	EA	1-1/4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	163.23	47.68
			For Work In Restricted Working Space, Add	35.76	
			For Elevated Installation >10' To 15', Add	11.92	
			For Elevated Installation >15' To 20', Add	23.84	
			For Elevated Installation >20' To 25', Add	29.80	
			For Elevated Installation >25' To 30', Add	41.72	
			For Elevated Installation >30' To 35', Add	47.68	
			For Elevated Installation >35' To 40', Add	59.60	
			For Elevated Installation >40', Add	65.56	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.76	
26 05 33	13-2632	EA	1-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	187.48	52.02
			For Work In Restricted Working Space, Add	39.01	
			For Elevated Installation >10' To 15', Add	13.00	
			For Elevated Installation >15' To 20', Add	26.01	
			For Elevated Installation >20' To 25', Add	32.51	
			For Elevated Installation >25' To 30', Add	45.51	
			For Elevated Installation >30' To 35', Add	52.01	
			For Elevated Installation >35' To 40', Add	65.02	
			For Elevated Installation >40', Add	71.52	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.01	
26 05 33	13-2633	EA	2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	259.84	63.93
			For Work In Restricted Working Space, Add	47.95	
			For Elevated Installation >10' To 15', Add	15.98	
			For Elevated Installation >15' To 20', Add	31.97	
			For Elevated Installation >20' To 25', Add	39.96	
			For Elevated Installation >25' To 30', Add	55.94	
			For Elevated Installation >30' To 35', Add	63.93	
			For Elevated Installation >35' To 40', Add	79.92	
			For Elevated Installation >40', Add	87.91	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.95	
26 05 33	13-2634	EA	2-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	412.91	93.73
			For Work In Restricted Working Space, Add	70.30	
			For Elevated Installation >10' To 15', Add	23.43	
			For Elevated Installation >15' To 20', Add	46.87	
			For Elevated Installation >20' To 25', Add	58.59	
			For Elevated Installation >25' To 30', Add	82.02	
			For Elevated Installation >30' To 35', Add	93.74	
			For Elevated Installation >35' To 40', Add	117.17	
			For Elevated Installation >40', Add	128.89	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	70.30	
26 05 33	13-2635	EA	3" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover	601.49	121.90
			For Work In Restricted Working Space, Add	91.43	
			For Elevated Installation >10' To 15', Add	30.48	
			For Elevated Installation >15' To 20', Add	60.95	
			For Elevated Installation >20' To 25', Add	76.19	
			For Elevated Installation >25' To 30', Add	106.67	
			For Elevated Installation >30' To 35', Add	121.90	
			For Elevated Installation >35' To 40', Add	152.38	
			For Elevated Installation >40', Add	167.62	
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	91.43	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2636 EA 3-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	889.68 112.97 37.66 75.31 94.14 131.79 150.62 188.28 207.10 112.97	150.62
26 05 33 13-2637 EA 4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	997.23 135.72 45.24 90.48 113.10 158.34 180.96 226.21 248.83 135.72	180.97
26 05 33 13-2638 Set Screw, Cast Aluminum Conduit Body (26 05 33 13-2625) Note: For use with Electrical Metallic Tubing (EMT)		
26 05 33 13-2639 Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2638)		
26 05 33 13-2640 EA 1/2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.84 7.72 2.57 5.15 6.43 9.01 10.29 12.87 14.15 7.72	10.29
26 05 33 13-2641 EA 3/4" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	47.21 10.16 3.39 6.77 8.47 11.85 13.54 16.93 18.62 10.16	13.55
26 05 33 13-2642 EA 1" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.55 12.60 4.20 8.40 10.50 14.70 16.80 21.00 23.09 12.60	16.79
26 05 33 13-2643 EA 1-1/4" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	82.13 15.44 5.15 10.29 12.87 18.01 20.59 25.74 28.31 15.44	20.59
26 05 33 13-2644 EA 1-1/2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	107.30 17.88 5.96 11.92 14.90 20.86 23.84 29.80 32.78 17.88	23.84
26 05 33 13-2645 EA 2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover For Work In Restricted Working Space, Add For Elevated Installation >10' To 15', Add For Elevated Installation >15' To 20', Add For Elevated Installation >20' To 25', Add For Elevated Installation >25' To 30', Add For Elevated Installation >30' To 35', Add For Elevated Installation >35' To 40', Add For Elevated Installation >40', Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	141.14 20.32 6.77 13.55 16.93 23.71 27.09 33.87 37.25 20.32	27.09



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2646		Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2638)		
26 05 33 13-2647	EA	1/2" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	37.15	10.29
		For Work In Restricted Working Space, Add	7.72	
		For Elevated Installation >10' To 15', Add	2.57	
		For Elevated Installation >15' To 20', Add	5.15	
		For Elevated Installation >20' To 25', Add	6.43	
		For Elevated Installation >25' To 30', Add	9.01	
		For Elevated Installation >30' To 35', Add	10.29	
		For Elevated Installation >35' To 40', Add	12.87	
		For Elevated Installation >40', Add	14.15	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.72	
26 05 33 13-2648	EA	3/4" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	48.39	13.55
		For Work In Restricted Working Space, Add	10.16	
		For Elevated Installation >10' To 15', Add	3.39	
		For Elevated Installation >15' To 20', Add	6.77	
		For Elevated Installation >20' To 25', Add	8.47	
		For Elevated Installation >25' To 30', Add	11.85	
		For Elevated Installation >30' To 35', Add	13.54	
		For Elevated Installation >35' To 40', Add	16.93	
		For Elevated Installation >40', Add	18.62	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	
26 05 33 13-2649	EA	1" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	59.47	16.79
		For Work In Restricted Working Space, Add	12.60	
		For Elevated Installation >10' To 15', Add	4.20	
		For Elevated Installation >15' To 20', Add	8.40	
		For Elevated Installation >20' To 25', Add	10.50	
		For Elevated Installation >25' To 30', Add	14.70	
		For Elevated Installation >30' To 35', Add	16.80	
		For Elevated Installation >35' To 40', Add	21.00	
		For Elevated Installation >40', Add	23.09	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.60	
26 05 33 13-2650	EA	1-1/4" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	81.79	20.59
		For Work In Restricted Working Space, Add	15.44	
		For Elevated Installation >10' To 15', Add	5.15	
		For Elevated Installation >15' To 20', Add	10.29	
		For Elevated Installation >20' To 25', Add	12.87	
		For Elevated Installation >25' To 30', Add	18.01	
		For Elevated Installation >30' To 35', Add	20.59	
		For Elevated Installation >35' To 40', Add	25.74	
		For Elevated Installation >40', Add	28.31	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.44	
26 05 33 13-2651	EA	1-1/2" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	100.52	23.84
		For Work In Restricted Working Space, Add	17.88	
		For Elevated Installation >10' To 15', Add	5.96	
		For Elevated Installation >15' To 20', Add	11.92	
		For Elevated Installation >20' To 25', Add	14.90	
		For Elevated Installation >25' To 30', Add	20.86	
		For Elevated Installation >30' To 35', Add	23.84	
		For Elevated Installation >35' To 40', Add	29.80	
		For Elevated Installation >40', Add	32.78	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.88	
26 05 33 13-2652	EA	2" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	140.55	27.09
		For Work In Restricted Working Space, Add	20.32	
		For Elevated Installation >10' To 15', Add	6.77	
		For Elevated Installation >15' To 20', Add	13.55	
		For Elevated Installation >20' To 25', Add	16.93	
		For Elevated Installation >25' To 30', Add	23.71	
		For Elevated Installation >30' To 35', Add	27.09	
		For Elevated Installation >35' To 40', Add	33.87	
		For Elevated Installation >40', Add	37.25	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.32	
26 05 33 13-2653		Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover (26 05 33 13-2638)		
26 05 33 13-2654	EA	1/2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover	47.85	13.55
		For Work In Restricted Working Space, Add	10.16	
		For Elevated Installation >10' To 15', Add	3.39	
		For Elevated Installation >15' To 20', Add	6.77	
		For Elevated Installation >20' To 25', Add	8.47	
		For Elevated Installation >25' To 30', Add	11.85	
		For Elevated Installation >30' To 35', Add	13.54	
		For Elevated Installation >35' To 40', Add	16.93	
		For Elevated Installation >40', Add	18.62	
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2655 EA 3/4" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover	62.15	16.79
For Work In Restricted Working Space, Add	12.60	
For Elevated Installation >10' To 15', Add	4.20	
For Elevated Installation >15' To 20', Add	8.40	
For Elevated Installation >20' To 25', Add	10.50	
For Elevated Installation >25' To 30', Add	14.70	
For Elevated Installation >30' To 35', Add	16.80	
For Elevated Installation >35' To 40', Add	21.00	
For Elevated Installation >40', Add	23.09	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.60	
26 05 33 13-2656 EA 1" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover	75.03	20.59
For Work In Restricted Working Space, Add	15.44	
For Elevated Installation >10' To 15', Add	5.15	
For Elevated Installation >15' To 20', Add	10.29	
For Elevated Installation >20' To 25', Add	12.87	
For Elevated Installation >25' To 30', Add	18.01	
For Elevated Installation >30' To 35', Add	20.59	
For Elevated Installation >35' To 40', Add	25.74	
For Elevated Installation >40', Add	28.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.44	
26 05 33 13-2657 EA 1-1/4" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover	102.99	23.84
For Work In Restricted Working Space, Add	18.69	
For Elevated Installation >10' To 15', Add	6.23	
For Elevated Installation >15' To 20', Add	12.46	
For Elevated Installation >20' To 25', Add	15.58	
For Elevated Installation >25' To 30', Add	21.81	
For Elevated Installation >30' To 35', Add	24.92	
For Elevated Installation >35' To 40', Add	31.16	
For Elevated Installation >40', Add	34.27	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.69	
26 05 33 13-2658 EA 1-1/2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover	131.45	27.09
For Work In Restricted Working Space, Add	21.94	
For Elevated Installation >10' To 15', Add	7.31	
For Elevated Installation >15' To 20', Add	14.63	
For Elevated Installation >20' To 25', Add	18.29	
For Elevated Installation >25' To 30', Add	25.60	
For Elevated Installation >30' To 35', Add	29.26	
For Elevated Installation >35' To 40', Add	36.57	
For Elevated Installation >40', Add	40.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.94	
26 05 33 13-2659 EA 2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover	175.61	30.34
For Work In Restricted Working Space, Add	25.19	
For Elevated Installation >10' To 15', Add	8.40	
For Elevated Installation >15' To 20', Add	16.80	
For Elevated Installation >20' To 25', Add	21.00	
For Elevated Installation >25' To 30', Add	29.39	
For Elevated Installation >30' To 35', Add	33.59	
For Elevated Installation >35' To 40', Add	41.99	
For Elevated Installation >40', Add	46.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.19	
26 05 33 13-2660 Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover ^(26 05 33 13-2638)	38.14	10.29
26 05 33 13-2661 EA 1/2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	7.72	
For Work In Restricted Working Space, Add	7.72	
For Elevated Installation >10' To 15', Add	2.57	
For Elevated Installation >15' To 20', Add	5.15	
For Elevated Installation >20' To 25', Add	6.43	
For Elevated Installation >25' To 30', Add	9.01	
For Elevated Installation >30' To 35', Add	10.29	
For Elevated Installation >35' To 40', Add	12.87	
For Elevated Installation >40', Add	14.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.72	
26 05 33 13-2662 EA 3/4" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	50.99	13.55
For Work In Restricted Working Space, Add	10.16	
For Elevated Installation >10' To 15', Add	3.39	
For Elevated Installation >15' To 20', Add	6.77	
For Elevated Installation >20' To 25', Add	8.47	
For Elevated Installation >25' To 30', Add	11.85	
For Elevated Installation >30' To 35', Add	13.54	
For Elevated Installation >35' To 40', Add	16.93	
For Elevated Installation >40', Add	18.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.16	
26 05 33 13-2663 EA 1" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	65.03	16.79
For Work In Restricted Working Space, Add	12.60	
For Elevated Installation >10' To 15', Add	4.20	
For Elevated Installation >15' To 20', Add	8.40	
For Elevated Installation >20' To 25', Add	10.50	
For Elevated Installation >25' To 30', Add	14.70	
For Elevated Installation >30' To 35', Add	16.80	
For Elevated Installation >35' To 40', Add	21.00	
For Elevated Installation >40', Add	23.09	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2664 EA 1-1/4" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover 83.90 20.59 For Work In Restricted Working Space, Add 15.44 For Elevated Installation >10' To 15', Add 5.15 For Elevated Installation >15' To 20', Add 10.29 For Elevated Installation >20' To 25', Add 12.87 For Elevated Installation >25' To 30', Add 18.01 For Elevated Installation >30' To 35', Add 20.59 For Elevated Installation >35' To 40', Add 25.74 For Elevated Installation >40', Add 28.31 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 15.44		
26 05 33 13-2665 EA 1-1/2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover 101.73 23.84 For Work In Restricted Working Space, Add 17.88 For Elevated Installation >10' To 15', Add 5.96 For Elevated Installation >15' To 20', Add 11.92 For Elevated Installation >20' To 25', Add 14.90 For Elevated Installation >25' To 30', Add 20.86 For Elevated Installation >30' To 35', Add 23.84 For Elevated Installation >35' To 40', Add 29.80 For Elevated Installation >40', Add 32.78 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 17.88		
26 05 33 13-2666 EA 2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover 151.87 27.09 For Work In Restricted Working Space, Add 20.32 For Elevated Installation >10' To 15', Add 6.77 For Elevated Installation >15' To 20', Add 13.55 For Elevated Installation >20' To 25', Add 16.93 For Elevated Installation >25' To 30', Add 23.71 For Elevated Installation >30' To 35', Add 27.09 For Elevated Installation >35' To 40', Add 33.87 For Elevated Installation >40', Add 37.25 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 20.32		
26 05 33 13-2667 Aluminum Type LB Telecommunications Conduit Bodies With Cover (Smart Pathways) (26 05 33 13-2525)		
26 05 33 13-2668 EA 3/4" To 1-1/4" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB120) 171.56 29.66 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 22.27		
26 05 33 13-2669 EA 1-1/2" To 2-1/2" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB250) 615.79 54.85 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 41.16		
26 05 33 13-2670 EA 3" To 4" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB400) 1,187.13 111.34 For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add 83.51		
26 05 33 13-2671 Replacement Covers And Gaskets For Conduit Body (26 05 33 13-2525)		
26 05 33 13-2672 Replacement Stamped Aluminum Conduit Body Cover (26 05 33 13-2671)		
26 05 33 13-2673 EA 1/2" Replacement Stamped Aluminum Conduit Body Cover 13.69 5.28		
26 05 33 13-2674 EA 3/4" Replacement Stamped Aluminum Conduit Body Cover 16.70 6.16		
26 05 33 13-2675 EA 1" Replacement Stamped Aluminum Conduit Body Cover 21.40 7.93		
26 05 33 13-2676 EA 1-1/4" Replacement Stamped Aluminum Conduit Body Cover 26.05 9.68		
26 05 33 13-2677 EA 1-1/2" Replacement Stamped Aluminum Conduit Body Cover 31.94 11.44		
26 05 33 13-2678 EA 2" Replacement Stamped Aluminum Conduit Body Cover 37.81 13.21		
26 05 33 13-2679 EA 2-1/2" Replacement Stamped Aluminum Conduit Body Cover 49.65 14.97		
26 05 33 13-2680 EA 3" Replacement Stamped Aluminum Conduit Body Cover 64.55 21.13		
26 05 33 13-2681 EA 3-1/2" Replacement Stamped Aluminum Conduit Body Cover 70.12 23.77		
26 05 33 13-2682 EA 4" Replacement Stamped Aluminum Conduit Body Cover 88.33 29.93		
26 05 33 13-2683 Replacement Cast Steel Conduit Body Cover (26 05 33 13-2671)		
26 05 33 13-2684 EA 1/2" Replacement Cast Steel Conduit Body Cover 15.82 5.28		
26 05 33 13-2685 EA 3/4" Replacement Cast Steel Conduit Body Cover 18.56 6.16		
26 05 33 13-2686 EA 1" Replacement Cast Steel Conduit Body Cover 25.98 7.93		
26 05 33 13-2687 EA 1-1/4" Replacement Cast Steel Conduit Body Cover 32.25 9.68		
26 05 33 13-2688 EA 1-1/2" Replacement Cast Steel Conduit Body Cover 39.16 11.44		
26 05 33 13-2689 EA 2" Replacement Cast Steel Conduit Body Cover 46.07 13.21		
26 05 33 13-2690 EA 2-1/2" Replacement Cast Steel Conduit Body Cover 52.93 14.97		
26 05 33 13-2691 EA 3" Replacement Cast Steel Conduit Body Cover 72.30 21.13		
26 05 33 13-2692 EA 3-1/2" Replacement Cast Steel Conduit Body Cover 82.32 23.77		
26 05 33 13-2693 EA 4" Replacement Cast Steel Conduit Body Cover 103.77 29.93		
26 05 33 13-2694 Replacement Velbuna Composition Conduit Body Gasket (26 05 33 13-2671)		
26 05 33 13-2695 EA 1/2" Replacement Velbuna Composition Conduit Body Gasket 12.73 5.28		
26 05 33 13-2696 EA 3/4" Replacement Velbuna Composition Conduit Body Gasket 14.57 6.16		
26 05 33 13-2697 EA 1" Replacement Velbuna Composition Conduit Body Gasket 19.02 7.93		
26 05 33 13-2698 EA 1-1/4" Replacement Velbuna Composition Conduit Body Gasket 24.61 9.68		
26 05 33 13-2699 EA 1-1/2" Replacement Velbuna Composition Conduit Body Gasket 28.13 11.44		
26 05 33 13-2700 EA 2" Replacement Velbuna Composition Conduit Body Gasket 33.41 13.21		
26 05 33 13-2701 EA 2-1/2" Replacement Velbuna Composition Conduit Body Gasket 43.63 14.97		
26 05 33 13-2702 EA 3" Replacement Velbuna Composition Conduit Body Gasket 57.04 21.13		
26 05 33 13-2703 EA 3-1/2" Replacement Velbuna Composition Conduit Body Gasket 63.00 23.77		
26 05 33 13-2704 EA 4" Replacement Velbuna Composition Conduit Body Gasket 75.19 29.93		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 05 33 13-2705	Replacement Neoprene Conduit Body Gasket (26 05 33 13-2671)		
26 05 33 13-2706	EA 1-1/2" Replacement Neoprene Conduit Body Gasket.....	14.21	5.28
26 05 33 13-2707	EA 3/4" Replacement Neoprene Conduit Body Gasket.....	15.98	6.16
26 05 33 13-2708	EA 1" Replacement Neoprene Conduit Body Gasket.....	20.87	7.93
26 05 33 13-2709	EA 1-1/4" Replacement Neoprene Conduit Body Gasket.....	25.56	9.68
26 05 33 13-2710	EA 1-1/2" Replacement Neoprene Conduit Body Gasket.....	29.08	11.44
26 05 33 13-2711	EA 2" Replacement Neoprene Conduit Body Gasket.....	33.51	13.21
26 05 33 13-2712	EA 2-1/2" Replacement Neoprene Conduit Body Gasket.....	43.86	14.97
26 05 33 13-2713	EA 3" Replacement Neoprene Conduit Body Gasket.....	57.27	21.13
26 05 33 13-2714	EA 3-1/2" Replacement Neoprene Conduit Body Gasket.....	64.58	23.77
26 05 33 13-2715	EA 4" Replacement Neoprene Conduit Body Gasket.....	76.77	29.93

26 05 33 16 Boxes for Electrical Systems (26 05 33)

See CSI section 26 27 16 00-0000 for larger junction boxes and enclosures.

26 05 33 16-0001	Steel Junction, Device, And Fixture Boxes, Rings And Covers (26 05 33 16)		
Note: Thin wall metal. See CSI section 26 27 26 00-0003 for steel box/receptacle assemblies, 26 27 26 00-0124 for steel box/switch assemblies.			
26 05 33 16-0002	4" Square Steel Boxes, Rings And Covers (26 05 33 16-0001)		
26 05 33 16-0003	EA 1-1/2" Depth, 4" Square Steel Box.....	49.40	22.24
	For Stud Bracket, Add.....	1.21	
26 05 33 16-0004	EA 2-1/8" Depth, 4" Square Steel Box.....	51.64	22.24
	For Stud Bracket, Add.....	2.17	
26 05 33 16-0005	EA 3-1/2" Depth, 4" Square Steel Box.....	59.33	22.24
	For Stud Bracket, Add.....	2.37	
26 05 33 16-0006	EA 1-1/2" Depth, 4" Square Steel Extension Ring.....	40.61	14.83
26 05 33 16-0007	EA 2-1/8" Depth, 4" Square Steel Extension Ring.....	32.83	14.83
26 05 33 16-0008	EA 1/2" Depth, 1 Gang, 4" Square Steel Mud Ring.....	17.18	7.41
26 05 33 16-0009	EA 5/8" Depth, 1 Gang, 4" Square Steel Mud Ring.....	17.54	7.41
26 05 33 16-0010	EA 3/4" Depth, 1 Gang, 4" Square Steel Mud Ring.....	17.80	7.41
26 05 33 16-0011	EA 1" Depth, 1 Gang, 4" Square Steel Mud Ring.....	18.63	7.41
26 05 33 16-0012	EA 1-1/4" Depth, 1 Gang, 4" Square Steel Mud Ring.....	18.87	7.41
26 05 33 16-0013	EA 1-1/2" Depth, 1 Gang, 4" Square Steel Mud Ring.....	21.53	7.41
26 05 33 16-0014	EA 1/2" Depth, 2 Gang, 4" Square Steel Mud Ring.....	18.19	7.41
26 05 33 16-0015	EA 5/8" Depth, 2 Gang, 4" Square Steel Mud Ring.....	18.45	7.41
26 05 33 16-0016	EA 3/4" Depth, 2 Gang, 4" Square Steel Mud Ring.....	18.76	7.41
26 05 33 16-0017	EA 1" Depth, 2 Gang, 4" Square Steel Mud Ring.....	21.49	7.41
26 05 33 16-0018	EA 1-1/4" Depth, 2 Gang, 4" Square Steel Mud Ring.....	22.05	7.41
26 05 33 16-0019	EA 1-1/2" Depth, 2 Gang, 4" Square Steel Mud Ring.....	25.51	7.41
26 05 33 16-0020	EA 3/4" Depth, Fixture Cover, 4" Square Mud Rings.....	19.52	7.41
26 05 33 16-0021	EA 1" Depth, Fixture Cover, 4" Square Mud Rings.....	21.72	7.41
26 05 33 16-0022	EA One Toggle Switch, 4" Square Steel Exposed Work Cover.....	18.15	7.41
26 05 33 16-0023	EA Two Toggle Switches, 4" Square Steel Exposed Work Cover.....	18.35	7.41
26 05 33 16-0024	EA One Duplex Receptacle, 4" Square Steel Exposed Work Cover.....	18.10	7.41
26 05 33 16-0025	EA Two Duplex Receptacles, 4" Square Steel Exposed Work Cover.....	18.69	7.41
26 05 33 16-0026	EA One Toggle Switch And One Duplex Receptacle, 4" Square Steel Exposed Work Cover.....	19.18	7.41
26 05 33 16-0027	EA One Toggle Switch And One 1.406" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	25.28	7.41
26 05 33 16-0028	EA One 1.406" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	19.09	7.41
26 05 33 16-0029	EA Two 1.406" Diameter Receptacles, 4" Square Steel Exposed Work Cover.....	25.28	7.41
26 05 33 16-0030	EA One 1.620" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	19.09	7.41
26 05 33 16-0031	EA One 1.719" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	20.52	7.41
26 05 33 16-0032	EA One 2.165" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	25.28	7.41
26 05 33 16-0033	EA One 2.480" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	25.28	7.41
26 05 33 16-0034	EA Flat, 4" Square Steel Exposed Work Cover.....	16.41	7.41

26 05 33 16-0035 4-11/16" Square Steel Boxes, Rings And Covers (26 05 33 16-0001)

26 05 33 16-0036	EA 1-1/2" Depth, 4-11/16" Square Steel Box.....	57.69	22.24
26 05 33 16-0037	EA 2-1/8" Depth, 4-11/16" Square Steel Box.....	52.62	22.24
	For Stud Bracket, Add.....	1.14	
26 05 33 16-0038	EA 3-1/4" Depth, 4-11/16" Square Steel Box.....	78.08	22.24
26 05 33 16-0039	EA 1-1/2" Depth, 4-11/16" Square Extension Ring.....	42.73	14.83
26 05 33 16-0040	EA 2-1/8" Depth, 4-11/16" Square Extension Ring.....	43.98	14.83
26 05 33 16-0041	EA 1/2" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	22.25	7.41
26 05 33 16-0042	EA 5/8" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	22.31	7.41
26 05 33 16-0043	EA 3/4" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	24.47	7.41
26 05 33 16-0044	EA 1" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	23.60	7.41
26 05 33 16-0045	EA 1-1/4" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	23.41	7.41
26 05 33 16-0046	EA 1-1/2" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	32.40	7.41
26 05 33 16-0047	EA 1/2" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	23.97	7.41
26 05 33 16-0048	EA 5/8" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	24.44	7.41
26 05 33 16-0049	EA 3/4" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	24.47	7.41
26 05 33 16-0050	EA 1" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	27.65	7.41
26 05 33 16-0051	EA 1-1/4" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	28.31	7.41
26 05 33 16-0052	EA 1-1/2" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	36.01	7.41
26 05 33 16-0053	EA 1/2" Depth, Fixture Cover, 4-11/16" Square Steel Mud Ring.....	23.55	7.41
26 05 33 16-0054	EA 5/8" Depth, Fixture Cover, 4-11/16" Square Steel Mud Ring.....	23.78	7.41
26 05 33 16-0055	EA One Toggle Switch, 4-11/16" Square Steel Exposed Work Cover.....	29.74	7.41
26 05 33 16-0056	EA Two Toggle Switches, 4-11/16" Square Steel Exposed Work Cover.....	31.41	7.41
26 05 33 16-0057	EA One Duplex Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	29.25	7.41



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0058 EA Two Duplex Receptacles, 4-11/16" Square Steel Exposed Work Cover	27.43	7.41
26 05 33 16-0059 EA One Toggle Switch And One Duplex Receptacle, 4-11/16" Square Steel Exposed Work Cover	33.52	7.41
26 05 33 16-0060 EA One 1.594" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover	31.40	7.41
26 05 33 16-0061 EA One 2.141" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover	31.40	7.41
26 05 33 16-0062 EA One 2.625" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover	31.40	7.41
26 05 33 16-0063 EA Flat, 4-11/16" Square Steel Exposed Work Cover	17.77	7.41
26 05 33 16-0064 Steel Square Box Brackets (26 05 33 16-0001)		
26 05 33 16-0065 EA 16" Or 24" Width Box Bracket, For Multiple 1-1/2" And 2-1/8" Deep Boxes	24.54	11.13
26 05 33 16-0066 EA Single Box Bracket, One 4" Or 4-11/16" Square Box	18.36	7.42
26 05 33 16-0067 EA 16" Box Bracket, Up To Three 4" Or 4-11/16" Square Boxes	29.94	11.13
26 05 33 16-0068 EA 24" Box Bracket, Up To Four 4" Or 4-11/16" Square Boxes	32.72	11.13
26 05 33 16-0069 4" Octagon Steel Boxes And Covers (26 05 33 16-0001)		
26 05 33 16-0070 EA 1-1/2" Depth, 4" Steel Octagon Box	41.10	18.53
For Stud Bracket, Add	2.94	
26 05 33 16-0071 EA 2-1/8" Depth, 4" Steel Octagon Box	43.06	18.53
26 05 33 16-0072 EA Flat, 4" Octagon Steel Exposed Work Cover	16.28	7.41
26 05 33 16-0073 4" Steel Octagonal Concrete Rings And Steel Covers (26 05 33 16-0001)		
Note: Placed in concrete slabs or walls.		
26 05 33 16-0074 EA 2" Depth, 4" Steel Octagonal Concrete Ring	68.16	
26 05 33 16-0075 EA 2-1/2" Depth, 4" Steel Octagonal Concrete Ring	72.58	
26 05 33 16-0076 EA 3" Depth, 4" Steel Octagonal Concrete Ring	75.92	
26 05 33 16-0077 EA 3-1/2" Depth, 4" Steel Octagonal Concrete Ring	79.15	
26 05 33 16-0078 EA 4" Depth, 4" Steel Octagonal Concrete Ring	87.51	
26 05 33 16-0079 EA 5" Depth, 4" Steel Octagonal Concrete Ring	96.21	
26 05 33 16-0080 EA 6" Depth, 4" Steel Octagonal Concrete Ring	102.77	
26 05 33 16-0081 EA Flat, 4" Steel Octagonal Concrete Cover	18.98	7.41
26 05 33 16-0082 4-1/2" Steel Gang Boxes (26 05 33 16-0001)		
26 05 33 16-0083 EA 2 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box	68.85	18.53
26 05 33 16-0084 EA 3 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box	75.86	20.02
26 05 33 16-0085 EA 4 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box	92.44	22.24
26 05 33 16-0086 EA 5 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box	123.72	24.46
26 05 33 16-0087 EA 6 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box	189.94	26.69
26 05 33 16-0088 EA 2 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box	99.12	18.53
26 05 33 16-0089 EA 3 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box	108.11	20.02
26 05 33 16-0090 EA 4 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box	146.90	22.24
26 05 33 16-0091 EA 5 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box	191.44	24.46
26 05 33 16-0092 EA 6 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box	323.83	26.69
26 05 33 16-0093 EA 2 Device, Gang Box Mud Ring	30.57	7.41
26 05 33 16-0094 EA 3 Device, Gang Box Mud Ring	31.08	7.41
26 05 33 16-0095 EA 4 Device, Gang Box Mud Ring	36.91	7.41
26 05 33 16-0096 EA 5 Device, Gang Box Mud Ring	46.94	7.41
26 05 33 16-0097 EA 6 Device, Gang Box Mud Ring	68.93	7.41
26 05 33 16-0098 EA 2 Device, Gang Box Flat Cover	25.56	7.41
26 05 33 16-0099 EA 3 Device, Gang Box Flat Cover	31.02	7.41
26 05 33 16-0100 EA 4 Device, Gang Box Flat Cover	38.27	7.41
26 05 33 16-0101 EA 5 Device, Gang Box Flat Cover	47.50	7.41
26 05 33 16-0102 EA 6 Device, Gang Box Flat Cover	70.49	7.41
26 05 33 16-0103 Steel Switch Boxes (26 05 33 16-0001)		
26 05 33 16-0104 EA 2-1/2" Depth, 3" x 2", Stud Bracket, Steel Switch Box	44.87	18.53
26 05 33 16-0105 EA 2-3/4" Depth, 3" x 2", Stud Bracket, Steel Switch Box	45.72	18.53
26 05 33 16-0106 EA 3-1/2" Depth, 3" x 2", Stud Bracket, Steel Switch Box	50.09	18.53
26 05 33 16-0107 EA 2-1/2" Depth, 2 Device, Stud Bracket, Steel Box	59.91	18.53
26 05 33 16-0108 EA 2-1/2" Depth, 3 Device, Stud Bracket, Steel Box	60.76	18.53
26 05 33 16-0109 EA 2-1/2" Depth, 4 Device, Stud Bracket, Steel Box	74.06	18.53
26 05 33 16-0110 4" x 2" Steel Handy Boxes, Extension Rings And Covers (26 05 33 16-0001)		
26 05 33 16-0111 EA 1-1/2" Deep, 4" x 2" Steel Handy Box	40.88	18.53
For Stud Bracket, Add	4.73	
26 05 33 16-0112 EA 1-7/8" Deep, 4" x 2" Steel Handy Box	41.79	18.53
For Stud Bracket, Add	2.04	
26 05 33 16-0113 EA 2-1/8" Deep, 4" x 2" Steel Handy Box	43.80	18.53
For Stud Bracket, Add	2.77	
26 05 33 16-0114 EA 1-1/2" Deep, 4" x 2" Steel Handy Box Extension Ring	27.73	11.12
26 05 33 16-0115 EA 1-7/8" Deep, 4" x 2" Steel Handy Box Extension Ring	26.83	11.12
26 05 33 16-0116 EA GFI Receptacle, 2" x 4" Steel Handy Box Exposed Work Cover	9.39	3.71
26 05 33 16-0117 EA 1.406" Diameter Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover	9.56	3.71
26 05 33 16-0118 EA Duplex Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover	8.71	3.71
26 05 33 16-0119 EA Toggle Switch, 4" x 2" Steel Handy Box Exposed Work Cover	8.77	3.71
26 05 33 16-0120 EA 1.594" Diameter Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover	10.50	3.71

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0121	EA	Flat, 2" x 4" Steel Handy Box Exposed Work Cover	8.77	3.71
26 05 33 16-0122		3"-1/2" Depth, 3-3/4" Steel Masonry Boxes (26 05 33 16-0001)		
26 05 33 16-0123	EA	1 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box	62.53	25.95
26 05 33 16-0124	EA	2 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box	70.91	27.43
26 05 33 16-0125	EA	3 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box	82.34	29.65
26 05 33 16-0126	EA	4 Device, 3"-1/2" Depth, 3-3/4" Steel Masonry Box	94.49	32.61
26 05 33 16-0127		Cast Boxes (26 05 33 16)		
		Note: For flush or surface mount.		
26 05 33 16-0128		Cast Iron Alloy Boxes (26 05 33 16-0127)		
		See CSI section 26 27 26 00-0261 for box covers.		
26 05 33 16-0129		Shallow, Single Gang Cast Iron Alloy Boxes (26 05 33 16-0128)		
		Note: Up to 2" deep boxes.		
26 05 33 16-0130	EA	1/2" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box	117.36	44.47
		Note: One hub.		
26 05 33 16-0131	EA	3/4" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box	128.47	51.88
		Note: One hub.		
26 05 33 16-0132	EA	1" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box	152.26	63.00
		Note: One hub.		
26 05 33 16-0133	EA	1/2" Depth, Type FSC, Shallow, Single Gang Cast Iron Alloy Box	148.58	59.30
		Note: Two hubs.		
26 05 33 16-0134	EA	3/4" Depth, Type FSC, Shallow, Single Gang Cast Iron Alloy Box	187.17	70.42
		Note: Two hubs.		
26 05 33 16-0135	EA	1/2" Depth, Type FSL, Shallow, Single Gang Cast Iron Alloy Box	148.09	59.30
		Note: Two hubs.		
26 05 33 16-0136	EA	3/4" Depth, Type FSL, Shallow, Single Gang Cast Iron Alloy Box	177.63	70.42
		Note: Two hubs.		
26 05 33 16-0137	EA	1/2" Depth, Type FSR, Shallow, Single Gang Cast Iron Alloy Box	151.16	59.30
		Note: Two hubs.		
26 05 33 16-0138	EA	3/4" Depth, Type FSR, Shallow, Single Gang Cast Iron Alloy Box	177.67	70.42
		Note: Two hubs.		
26 05 33 16-0139	EA	1/2" Depth, Type FSS, Shallow, Single Gang Cast Iron Alloy Box	148.09	59.30
		Note: Two hubs.		
26 05 33 16-0140	EA	3/4" Depth, Type FSS, Shallow, Single Gang Cast Iron Alloy Box	173.89	70.42
		Note: Two hubs.		
26 05 33 16-0141	EA	1/2" Depth, Type FSCA, Shallow, Single Gang Cast Iron Alloy Box	178.25	74.12
		Note: Three hubs.		
26 05 33 16-0142	EA	3/4" Depth, Type FSCA, Shallow, Single Gang Cast Iron Alloy Box	211.58	88.95
		Note: Three hubs.		
26 05 33 16-0143	EA	1/2" Depth, Type FSCC, Shallow, Single Gang Cast Iron Alloy Box	184.13	74.12
		Note: Three hubs.		
26 05 33 16-0144	EA	3/4" Depth, Type FSCC, Shallow, Single Gang Cast Iron Alloy Box	234.01	88.95
		Note: Three hubs.		
26 05 33 16-0145	EA	1/2" Depth, Type FSCT, Shallow, Single Gang Cast Iron Alloy Box	187.98	74.12
		Note: Three hubs.		
26 05 33 16-0146	EA	3/4" Depth, Type FSCT, Shallow, Single Gang Cast Iron Alloy Box	224.79	88.95
		Note: Three hubs.		
26 05 33 16-0147	EA	1/2" Depth, Type FST, Shallow, Single Gang Cast Iron Alloy Box	177.75	74.12
		Note: Three hubs.		
26 05 33 16-0148	EA	3/4" Depth, Type FST, Shallow, Single Gang Cast Iron Alloy Box	227.38	88.95
		Note: Three hubs.		
26 05 33 16-0149	EA	1/2" Depth, Type FSX, Shallow, Single Gang Cast Iron Alloy Box	223.73	88.95
		Note: Four hubs.		
26 05 33 16-0150	EA	3/4" Depth, Type FSX, Shallow, Single Gang Cast Iron Alloy Box	269.99	107.47
		Note: Four hubs.		
26 05 33 16-0151		Deep, Single Gang Cast Iron Alloy Boxes (26 05 33 16-0128)		
		Note: >2" deep boxes.		
26 05 33 16-0152	EA	1/2" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box	121.69	44.47
		Note: One hub.		
26 05 33 16-0153	EA	3/4" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box	140.49	51.88
		Note: One hub.		
26 05 33 16-0154	EA	1" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box	166.12	63.00
		Note: One hub.		
26 05 33 16-0155	EA	1/2" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box	156.50	59.30
		Note: Two hubs.		
26 05 33 16-0156	EA	3/4" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box	181.70	70.42
		Note: Two hubs.		
26 05 33 16-0157	EA	1" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box	218.71	85.24
		Note: Two hubs.		
26 05 33 16-0158	EA	3/4" Depth, Type FDS, Deep, Single Gang Cast Iron Alloy Box	192.50	70.42
		Note: Two hubs.		
26 05 33 16-0159	EA	3/4" Depth, Type FDCC, Deep, Single Gang Cast Iron Alloy Box	246.80	88.95
		Note: Three hubs.		
26 05 33 16-0160		Shallow, Two Gang Cast Iron Alloy Boxes (26 05 33 16-0128)		
		Note: Up to 2" deep boxes.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0161 EA 1/2" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box..... Note: One hub.	138.39	48.18
26 05 33 16-0162 EA 3/4" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box..... Note: One hub.	154.49	55.59
26 05 33 16-0163 EA 1" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box..... Note: One hub.	180.59	66.71
26 05 33 16-0164 EA 1/2" Depth, Type FSC, Shallow, Two Gang Cast Iron Alloy Box..... Note: Two hubs.	170.13	63.00
26 05 33 16-0165 EA 3/4" Depth, Type FSC, Shallow, Two Gang Cast Iron Alloy Box..... Note: Two hubs.	194.59	74.12
26 05 33 16-0166 Deep, Two Gang Cast Iron Alloy Boxes (26 05 33 16-0128) Note: >2" deep boxes.		
26 05 33 16-0167 EA 1/2" Depth, Type FD, Deep, Two Gang Cast Iron Alloy Box..... Note: One hub.	151.39	48.18
26 05 33 16-0168 EA 3/4" Depth, Type FD, Deep, Two Gang Cast Iron Alloy Box..... Note: One hub.	166.73	55.59
26 05 33 16-0169 EA 1/2" Depth, Type FDC, Deep, Two Gang Cast Iron Alloy Box..... Note: Two hubs.	189.70	63.00
26 05 33 16-0170 EA 3/4" Depth, Type FDC, Deep, Two Gang Cast Iron Alloy Box..... Note: Two hubs.	215.27	74.12
26 05 33 16-0171 Cast Aluminum Boxes (26 05 33 16-0127) See CSI section 26 27 26 00-0261 for box covers.		
26 05 33 16-0172 Shallow, Single Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: Up to 2" deep boxes.		
26 05 33 16-0173 EA 1/2" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	102.53	37.06
26 05 33 16-0174 EA 3/4" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	118.49	44.47
26 05 33 16-0175 EA 1" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	134.93	55.59
26 05 33 16-0176 EA 1/2" Depth, Type FSA, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	97.48	37.06
26 05 33 16-0177 EA 3/4" Depth, Type FSA, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	122.05	44.47
26 05 33 16-0178 EA 1/2" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	132.67	51.88
26 05 33 16-0179 EA 3/4" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	159.74	63.00
26 05 33 16-0180 EA 1" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	199.79	77.83
26 05 33 16-0181 EA 1/2" Depth, Type FSL, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	141.45	51.88
26 05 33 16-0182 EA 3/4" Depth, Type FSL, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	155.47	63.00
26 05 33 16-0183 EA 1/2" Depth, Type FSLB, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	136.46	51.88
26 05 33 16-0184 EA 3/4" Depth, Type FSLB, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	158.45	63.00
26 05 33 16-0185 EA 1/2" Depth, Type FSR, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	133.23	51.88
26 05 33 16-0186 EA 3/4" Depth, Type FSR, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	158.45	63.00
26 05 33 16-0187 EA 1/2" Depth, Type FSS, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	125.79	51.88
26 05 33 16-0188 EA 3/4" Depth, Type FSS, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	166.37	63.00
26 05 33 16-0189 EA 1/2" Depth, Type FSCA, Shallow, Single Gang Cast Aluminum Box..... Note: Three hubs.	160.57	66.71
26 05 33 16-0190 EA 3/4" Depth, Type FSCA, Shallow, Single Gang Cast Aluminum Box..... Note: Three hubs.	195.34	81.54
26 05 33 16-0191 EA 1/2" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box..... Note: Three hubs.	168.29	66.71
26 05 33 16-0192 EA 3/4" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box..... Note: Three hubs.	222.08	81.54
26 05 33 16-0193 EA 1/2" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box..... Note: Three hubs.	167.64	66.71
26 05 33 16-0194 EA 3/4" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box..... Note: Three hubs.	205.51	81.54
26 05 33 16-0195 EA 3/4" Depth, Type FST, Shallow, Single Gang Cast Aluminum Box..... Note: Three hubs.	207.81	81.54
26 05 33 16-0196 EA 1/2" Depth, Type FSX, Shallow, Single Gang Cast Aluminum Box..... Note: Four hubs.	204.51	81.54
26 05 33 16-0197 EA 3/4" Depth, Type FSX, Shallow, Single Gang Cast Aluminum Box..... Note: Four hubs.	249.93	100.06
26 05 33 16-0198 Deep, Single Gang Cast Aluminum Boxes (26 05 33 16-0171) Note: >2" deep boxes.		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0199	EA	1/2" Depth, Type FD, Deep, Single Gang Cast Aluminum Box..... Note: One hub.	111.48	37.06
26 05 33 16-0200	EA	3/4" Depth, Type FD, Deep, Single Gang Cast Aluminum Box..... Note: One hub.	133.60	44.47
26 05 33 16-0201	EA	1" Depth, Type FD, Deep, Single Gang Cast Aluminum Box..... Note: One hub.	155.70	55.59
26 05 33 16-0202	EA	3/4" Depth, Type FDA, Deep, Single Gang Cast Aluminum Box Note: One hub.	141.77	44.47
26 05 33 16-0203	EA	1/2" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box Note: Two hubs.	144.24	51.88
26 05 33 16-0204	EA	3/4" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box Note: Two hubs.	173.96	63.00
26 05 33 16-0205	EA	1" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box Note: Two hubs.	198.46	77.83
26 05 33 16-0206	EA	3/4" Depth, Type FDS, Deep, Single Gang Cast Aluminum Box Note: Two hubs.	175.85	63.00
26 05 33 16-0207	EA	3/4" Depth, Type FDCC, Deep, Single Gang Cast Aluminum Box..... Note: Three hubs.	217.44	81.54
26 05 33 16-0208 Shallow, Two Gang Cast Aluminum Boxes (26 05 33 16-0171)				
Note: Up to 2" deep boxes.				
26 05 33 16-0209	EA	1/2" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box Note: One hub.	131.44	40.76
26 05 33 16-0210	EA	3/4" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box Note: One hub.	151.29	48.18
26 05 33 16-0211	EA	1" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box Note: One hub.	166.48	59.30
26 05 33 16-0212	EA	1/2" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box..... Note: Two hubs.	166.73	55.59
26 05 33 16-0213	EA	3/4" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box..... Note: Two hubs.	175.36	66.71
26 05 33 16-0214	EA	1" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box..... Note: Two hubs.	216.14	81.54
26 05 33 16-0215 Deep, Two Gang Cast Aluminum Boxes (26 05 33 16-0171)				
Note: >2" deep boxes.				
26 05 33 16-0216	EA	1/2" Depth, Type FD, Deep, Two Gang Cast Aluminum Box..... Note: One hub.	131.34	40.76
26 05 33 16-0217	EA	3/4" Depth, Type FD, Deep, Two Gang Cast Aluminum Box..... Note: One hub.	152.51	48.18
26 05 33 16-0218	EA	1/2" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	169.52	55.59
26 05 33 16-0219	EA	3/4" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	194.07	66.71
26 05 33 16-0220	EA	1/2" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	169.52	55.59
26 05 33 16-0221	EA	3/4" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box Note: Two hubs.	194.07	66.71
26 05 33 16-0222 Shallow, Three Gang Cast Aluminum Boxes (26 05 33 16-0171)				
Note: Up to 2" deep boxes.				
26 05 33 16-0223	EA	1/2" Depth, Type FSC, Shallow, Three Gang Cast Aluminum Box..... Note: Two hubs.	178.42	59.30
26 05 33 16-0224	EA	3/4" Depth, Type FSC, Shallow, Three Gang Cast Aluminum Box..... Note: Two hubs.	202.26	70.42
26 05 33 16-0225 Deep, Three Gang Cast Aluminum Boxes (26 05 33 16-0171)				
Note: >2" deep boxes.				
26 05 33 16-0226	EA	3/4" Depth, Type FD, Deep, Three Gang Cast Aluminum Box Note: One hub.	195.10	51.88
26 05 33 16-0227	EA	1" Depth, Type FD, Deep, Three Gang Cast Aluminum Box Note: One hub.	220.21	63.00
26 05 33 16-0228 Cast Aluminum Explosion Proof Outlet Bodies (26 05 33 16-0127)				
Note: Class I, Div. 1 & 2; Class II, Div. 1 & 2; and Class III.				
26 05 33 16-0229	EA	1/2" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body.....	204.84	59.30
26 05 33 16-0230	EA	3/4" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body.....	250.35	66.71
26 05 33 16-0231	EA	1" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body.....	235.85	74.12
26 05 33 16-0232	EA	1/2" Depth, Type GRSSA, 13 Opening, Cast Aluminum Explosion Proof Outlet Body	227.53	66.71
26 05 33 16-0233	EA	3/4" Depth, 13 Hubs, Explosion Proof Conduit Outlet Box With Cover Cast Aluminum, Type GRSSA	273.66	74.12
26 05 33 16-0234 Non Metallic (PVC) Boxes (26 05 33 16)				
See CSI section 26 27 26 00-0261 for box covers.				
26 05 33 16-0235 Shallow, Single Gang Non Metallic (PVC) Boxes (26 05 33 16-0234)				
26 05 33 16-0236	EA	1/2" Depth, Type FSE, Shallow, Single Gang Non Metallic (PVC) Box Note: One hub.	74.07	31.13



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0237	EA	3/4" Depth, Type FSE, Shallow, Single Gang Non Metallic (PVC) Box Note: One hub.	84.82	36.32
26 05 33 16-0238	EA	1" Depth, Type FSE, Shallow, Single Gang Non Metallic (PVC) Box Note: One hub.	97.29	44.10
26 05 33 16-0239	EA	1/2" Depth, Type FSC, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	95.20	41.51
26 05 33 16-0240	EA	3/4" Depth, Type FSC, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	111.97	49.29
26 05 33 16-0241	EA	1" Depth, Type FSC, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	135.78	59.67
26 05 33 16-0242	EA	1/2" Depth, Type FSS, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	95.51	41.51
26 05 33 16-0243	EA	3/4" Depth, Type FSS, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	111.13	49.29
26 05 33 16-0244	EA	1" Depth, Type FSS, Shallow, Single Gang Non Metallic (PVC) Box Note: Two hubs.	132.93	59.67
26 05 33 16-0245	EA	1/2" Depth, Type FSCC, Shallow, Single Gang Non Metallic (PVC) Box Note: Three hubs.	120.48	51.88
26 05 33 16-0246	EA	3/4" Depth, Type FSCC, Shallow, Single Gang Non Metallic (PVC) Box Note: Three hubs.	137.94	62.26
26 05 33 16-0247	EA	1" Depth, Type FSCC, Shallow, Single Gang Non Metallic (PVC) Box Note: Three hubs.	162.90	75.24
26 05 33 16-0248 Deep, Single Gang Non Metallic (PVC) Boxes (26 05 33 16-0234)				
26 05 33 16-0249	EA	No Hub, Type FD, Deep, Single Gang Non Metallic (PVC) Box Note: No hubs.	74.99	31.13
26 05 33 16-0250	EA	1/2" Depth, Type FDE, Deep, Single Gang Non Metallic (PVC) Box Note: One hub.	73.38	31.13
26 05 33 16-0251	EA	3/4" Depth, Type FDE, Deep, Single Gang Non Metallic (PVC) Box Note: One hub.	87.01	36.32
26 05 33 16-0252	EA	1" Depth, Type FDE, Deep, Single Gang Non Metallic (PVC) Box Note: One hub.	98.18	44.10
26 05 33 16-0253	EA	1/2" Depth, Type FDC, Deep, Single Gang Non Metallic (PVC) Box Note: Two hubs.	97.01	41.51
26 05 33 16-0254	EA	3/4" Depth, Type FDC, Deep, Single Gang Non Metallic (PVC) Box Note: Two hubs.	109.60	49.29
26 05 33 16-0255	EA	1" Depth, Type FDC, Deep, Single Gang Non Metallic (PVC) Box Note: Two hubs.	131.17	59.67
26 05 33 16-0256 Shallow, Two Gang Non Metallic (PVC) Boxes (26 05 33 16-0234)				
26 05 33 16-0257	EA	1/2" Depth, Type FSE, Shallow, Two Gang Non Metallic (PVC) Box Note: One hub.	79.74	33.72
26 05 33 16-0258	EA	3/4" Depth, Type FSE, Shallow, Two Gang Non Metallic (PVC) Box Note: One hub.	91.41	38.91
26 05 33 16-0259	EA	1" Depth, Type FSE, Shallow, Two Gang Non Metallic (PVC) Box Note: One hub.	102.63	46.69
26 05 33 16-0260	EA	1/2" Depth, Type FSC, Shallow, Two Gang Non Metallic (PVC) Box Note: Two hubs.	98.38	44.10
26 05 33 16-0261	EA	3/4" Depth, Type FSC, Shallow, Two Gang Non Metallic (PVC) Box Note: Two hubs.	121.09	51.88
26 05 33 16-0262	EA	1" Depth, Type FSC, Shallow, Two Gang Non Metallic (PVC) Box Note: Two hubs.	143.46	62.26
26 05 33 16-0263	EA	1/2" Depth, Type FSS, Shallow, Two Gang Non Metallic (PVC) Box Note: Two hubs.	100.52	44.10
26 05 33 16-0264	EA	3/4" Depth, Type FSS, Shallow, Two Gang Non Metallic (PVC) Box Note: Two hubs.	127.02	51.88
26 05 33 16-0265	EA	1" Depth, Type FSS, Shallow, Two Gang Non Metallic (PVC) Box Note: Two hubs.	138.71	62.26
26 05 33 16-0266	EA	1/2" Depth, Type FSCC, Shallow, Two Gang Non Metallic (PVC) Box Note: Three hubs.	123.02	54.48
26 05 33 16-0267	EA	3/4" Depth, Type FSCC, Shallow, Two Gang Non Metallic (PVC) Box Note: Three hubs.	160.42	64.86
26 05 33 16-0268	EA	1" Depth, Type FSCC, Shallow, Two Gang Non Metallic (PVC) Box Note: Three hubs.	167.94	77.83
26 05 33 16-0269 Poke Thru Units (26 05 33 16)				
26 05 33 16-0270 Surface Poke Thru Units (26 05 33 16-0269)				
Note: Excludes concrete drilling.				
26 05 33 16-0271	EA	Single 20 Amperes, Duplex Receptacle RC3 Power And Communications Poke Thru Unit Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Excludes communication jacks. Wiremold RC3ATCAL.	592.63	55.59
26 05 33 16-0272	EA	Retrofit Kit Upgrades Existing RC3 Series Power And Communications Poke Thru Unit To Meet Scrub Water Requirements Note: Includes 20 Amp duplex receptacle. Tile or carpet with brushed aluminum flange with black nonmetallic cover. Wiremold RC3KTCAL.	378.91	
26 05 33 16-0273	EA	20 Amperes, Replacement Duplex Receptacle For RC3 Series Power And Communications Poke Thru Unit Note: Wiremold RC37REC.	54.87	14.83
26 05 33 16-0274	EA	Abandonment Plate For RC3 Series Power And Communications Poke Thru Unit Note: Wiremold RC3APTCBK.	63.85	7.41

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0275 EA Four 20 Amperes, Receptacles RC4 Power And Communications Poke Thru Unit 669.42 Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Excludes communication jacks. Wiremold RC4ATCAL.	669.42	59.30
26 05 33 16-0276 EA Retrofit Kit Upgrades Existing RC4 Series Power And Communications Poke Thru Unit To Meet Scrub Water Requirements 355.33 Note: Includes two 20 Amp duplex receptacles. Tile or carpet with brushed aluminum flange with black nonmetallic cover. Excludes communication jacks. Wiremold RC4KTCAL.	355.33	
26 05 33 16-0277 EA Two 20 Amperes, Replacement Duplex Receptacles For RC4 Series Power And Communications Poke Thru Unit 93.30 Note: Wiremold RC4REC2.	93.30	22.24
26 05 33 16-0278 EA Abandonment Plate For RC4 Series Power And Communications Poke Thru Unit.....63.85 Note: Wiremold RC4APTCBK.	63.85	7.41
26 05 33 16-0279 EA Abandonment Plug For RC4 Series Power And Communications Poke Thru Unit.....184.47 Note: Wiremold ABPLUG4.	184.47	14.83
26 05 33 16-0280 EA Four Jack RC9AMD Communications Poke Thru Unit.....530.88 Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Includes bezels to accept four Ortronics TracJack inserts and two Ortronics Series II inserts. Excludes communication jacks. Wiremold RC9AMDTCAL.	530.88	51.88
26 05 33 16-0281 EA Abandonment Plate For RC9 Series Communications Poke Thru Unit 44.90 Note: Wiremold RC9APTCBK.	44.90	7.41
26 05 33 16-0282 EA Eight Jack AMD8 Communications Poke Thru Unit 528.49 Note: Tile or carpet with brushed aluminum flange with black nonmetallic cover. Includes bezels to accept eight Ortronics TracJack inserts and four Ortronics Series II inserts. Excludes communication jacks. Wiremold AMD8ATCAL.	528.49	51.88
26 05 33 16-0283 EA Communication Conduit Adapter For Poke Thru Units 61.77 Note: Includes two conduit connections for communication systems. Wiremold COM75.	61.77	7.41
26 05 33 16-0284 Recessed Poke Thru Units (26 05 33 16-0269) Note: Excludes concrete drilling.		
26 05 33 16-0285 Evolution 6AT Poke Thru Units (26 05 33 16-0284) Note: Excludes concrete drilling.		
26 05 33 16-0286 EA Recessed Prewired Assembly With Surface Style Cover (Wiremold 6ATCP) 915.61 Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	915.61	59.30
26 05 33 16-0287 EA Recessed Prewired Assembly With Flush Style Cover (Wiremold 6ATP).....915.72 Note: For tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	915.72	59.30
26 05 33 16-0288 EA Recessed Assembly With Surface Style Cover (Wiremold 6ATC).....873.57 Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	873.57	59.30
26 05 33 16-0289 EA Recessed Assembly With Flush Style Cover (Wiremold 6AT) 873.57 Note: For tile, wood or laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	873.57	59.30
26 05 33 16-0290 EA Recessed Prewired Audio/Video Assembly With Surface Style Cover (Wiremold 6ATCPA).....915.61 Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	915.61	59.30
26 05 33 16-0291 EA Recessed Prewired Audio/Video Assembly With Flush Style Cover (Wiremold 6ATPA).....915.61 Note: For tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	915.61	59.30
26 05 33 16-0292 EA Recessed Furniture Feed Assembly With Surface Style Cover (Wiremold 6ATCFF).....837.98 Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Die-cast aluminum cover assembly provides one (1) 3/4" trade size screw plug opening and one (1) concentric 2"-1 1/4" trade size screw plug opening and is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	837.98	59.30
26 05 33 16-0293 EA Recessed Assembly With Disposable Plate (Wiremold 6STC).....531.28 Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. No device plates are included. For use with the following cover assemblies (purchased separately): 6CTC, 6CT, and 6CFFTC Series.	531.28	55.59
26 05 33 16-0294 EA Recessed Prewired Audio/Video Assembly With Disposable Plate (Wiremold 6STCPAV) 568.47 Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies(purchased separately): 6CTC and 6CT Series.	568.47	55.59
26 05 33 16-0295 EA Recessed Prewired Assembly With Disposable Plate (Wiremold 6STCP) 572.15 Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 6CTC and 6CT Series.	572.15	55.59
26 05 33 16-0296 EA 6" Pre-Pour Poke-Thru Sleeve (Wiremold 6PPS).....166.63 Note: Nonmetallic sleeve attaches to structural decking and maintains 6"-6 1/8" diameter cast in core hole. Unit includes three (3) attachment legs, two (2) end caps and three (3) thumb screws.	166.63	29.65
26 05 33 16-0297 EA Surface Style Cover Assembly (Wiremold 6CTC).....366.13 Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: black (BK), gray (GY), nickel (NK), brass (BS), and bronze (BZ). 6CTC Series cover assemblies designed for use with 6STC, 6STCP, and 6STCPAV Poke-Thru Stem Assemblies.	366.13	14.83
26 05 33 16-0298 EA Flush Style Cover Assembly (Wiremold 6CT) 366.13 Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: black (BK), gray (GY), nickel (NK), brass (BS), and bronze (BZ). 6CT Series cover assemblies designed for use with 6STC, 6STCP and 6STCPAV Poke-Thru Stem Assemblies. Includes one (1) 6TS Tile Shim.	366.13	14.83



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0299 EA Furniture Feed Cover Assembly (Wiremold 6CFFTC).....	305.15	14.83
Note: Surface style, die-cast aluminum cover assembly, with one (1) 3/4" trade size screw plug opening, and one (1) concentric 2"-1 1/4" trade size screw plug opening. Cover assembly is available in finishes: black (BK), gray(GY), nickel (NK), brass (BS), and bronze (BZ). 6CFFTC Series Cover Assemblies designed for use with 6STC Poke-Thru Stem Assembly. Includes one (1) 3/4" and one (1) 2" trade size conduit fittings and one (1) divider to separate services.		
26 05 33 16-0300 EA Tile Shim (Wiremold 6TS).....	44.64	3.71
Note: Used for floor coverings greater than 5/16" The 6TS will allow the top surface of the cover to be flush with the finished floor. Includes: two (2) 1/8" thick shims and two (2) 1/16" thick shims. Up to a total of 3/8" of adjustment.		
26 05 33 16-0301 EA Device Mounting Plate (Wiremold 6AAP).....	23.67	7.41
Note: Device plate that will accept up to two (2) Extron® Electronics AAP style plates. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0302 EA Device Mounting Plate (Wiremold 6ACT8A).....	26.98	7.41
Note: Device plate that will accept up to eight (8) ports of communication devices. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0303 EA Device Mounting Plate (Wiremold 6B).....	23.58	7.41
Note: Device plate used to blank off center compartment, when no devices are used.		
26 05 33 16-0304 EA Device Mounting Plate (Wiremold 6DEC).....	23.64	7.41
Note: Device plate that will accept Decorator style devices such as 20 amperes receptacles, GFCIs, 106 adapters or A/V devices. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0305 EA Device Mounting Plate (Wiremold 6DP).....	23.50	7.41
Note: Device plate that will accept standard 20 amperes duplex receptacle or duplex Turnlok receptacle. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0306 EA Device Mounting Plate (Wiremold 6MAAP).....	27.33	7.41
Note: Device plate that will accept up to six (6) Extron® Electronics MAAP style plates. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0307 EA Device Mounting Plate (Wiremold 6MAAP2A).....	27.06	7.41
Note: Combination device plate that will accept up to three (3) Extron® Electronics MAAP style plates, and up to two (2) ports of communication devices. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0308 EA Mosaic Mounting Plate (Wiremold 6MOS).....	27.66	7.41
Note: Device plate will accept two (2) standard [45mm x 45mm] or one (1) standard [45mm x 90mm] Mosaic style device(s). Devices supplied by others.		
26 05 33 16-0309 EA Device Mounting Plate (Wiremold 6S1).....	23.18	7.41
Note: Receptacle opening 1 3/8". For 6" poke-thru units only.		
26 05 33 16-0310 EA Device Mounting Plate (Wiremold 6S2).....	23.20	7.41
Note: Receptacle opening 1 9/16". For 6" poke-thru units only.		
26 05 33 16-0311 EA Device Mounting Plate (Wiremold 6SER).....	22.91	7.41
Note: Device plate that will accept up to four (4) Ortronics® Series II dual modular inserts. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0312 EA Device Mounting Plate (Wiremold 6TRAC).....	22.91	7.41
Note: Device plate that will accept up to eight (8) Ortronics® TracJack devices. For use in the center compartment only. Devices supplied by others.		
26 05 33 16-0313 EA 20 Amperes, Duplex Receptacles (Wiremold 68REC).....	53.04	11.12
Note: Two (2) proprietary 20 amperes duplex power receptacles with mounting plates. Designed to fit in either of the two side compartments in both the 6ATC and the 8ATC Series Poke-Thru Devices. Receptacle can be wired as a standard or isolated ground device.		
26 05 33 16-0314 EA Device Mounting Plate (Wiremold 68B).....	21.17	7.41
Note: Blank plate. Used to blank off either of the side compartments when no devices or cabling are to be used.		
26 05 33 16-0315 EA Device Mounting Plate (Wiremold 68MAAP).....	21.65	7.41
Note: Device plate that will accept up to two (2) Extron® Electronics MAAP device plates. For use in either of the two side compartments only. Not for use in the center compartment. Extron Devices supplied by others.		
26 05 33 16-0316 EA 20 Amperes, Duplex Receptacles (Wiremold 68REC-25).....	159.90	13.34
Note: Two (2) proprietary 20 amperes duplex power receptacles with mounting plates and 25' leads. Designed to fit in either of the two side compartments in both the 6ATC and the 8ATC Series Poke-Thru Devices. Receptacle can be wired as a standard or isolated		
26 05 33 16-0317 EA Device Mounting Plate (Wiremold 682A).....	26.76	7.41
Note: Device plate that will accept up to two (2) ports of communication devices. For use in either of the two side compartments only. Not for use in the center compartment. Communication devices supplied by others.		
26 05 33 16-0318 EA Bottom Housing Assembly (Wiremold 5PTHA).....	27.78	7.41
Note: Half-gang pass through housing assembly. Designed to allow pass through of communication cables when no conduit is required. For use on side compartments only.		
26 05 33 16-0319 EA Bottom Housing Assembly (Wiremold 5BLH).....	28.51	7.41
Note: Half-gang blank housing assembly. Designed to blank off compartment when no cable pass through is required. For use on side compartments only. Includes tunnels for 6" and 8" poke-thru devices.		
26 05 33 16-0320 EA Bottom Housing Assembly (Wiremold 152CHA).....	44.88	14.83
Note: One and a half-gang 2" trade size conduit housing assembly. Recommended for use with furniture feed devices (6ATCFF). Covers the center compartment and one of the side compartments.		
26 05 33 16-0321 EA Bottom Housing Assembly (Wiremold 575CHA).....	51.91	18.53
Note: Half-gang 3/4" trade size conduit housing assembly. Includes junction box attached to 3/4" trade size conduit for electrical power connections. For use on side compartments only.		
26 05 33 16-0322 EA Bottom Housing Assembly (Wiremold 175CHA).....	56.64	18.53
Note: One-gang 3/4" trade size conduit housing assembly. Includes junction box attached to 3/4" trade size conduit for electrical power connections.		
26 05 33 16-0323 EA Bottom Housing Assembly (Wiremold 1125CHA).....	43.28	14.83
Note: One-gang 1 1/4" trade size conduit housing assembly.		
26 05 33 16-0324 EA Bottom Housing Assembly (Wiremold 1PTHA).....	27.61	7.41
Note: One-gang pass through housing assembly. Designed to allow pass through of communication cables when no conduit is required.		
26 05 33 16-0325 EA Bottom Housing Assembly (Wiremold 1BLH).....	27.61	7.41
Note: One-gang blank housing assembly. Designed to blank off compartment when no cable pass through is required.		
26 05 33 16-0326 EA Bottom Housing Assembly (Wiremold 15FFHA).....	28.97	7.41
Note: One and a half-gang pass through conduit housing assembly. Used for furniture feed applications on the center compartment only. Only for use with 6AT Series units.		

26 Electrical**26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0327 EA Bottom Housing Assembly (Wiremold 1BHA).....	29.89	7.41
Note: One-gang bottom housing assembly. Designed to accept 175CHA, 1125CHA, 1PTHA, and 1BLH plates.		
26 05 33 16-0328 Evolution 8AT Poke Thru Units (26 05 33 16-0284)		
Note: Excludes concrete drilling.		
26 05 33 16-0329 EA Recessed Prewired Assembly With Surface Style Cover (Wiremold 8ATCP).....	1,195.27	59.30
Note: For carpet, tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0330 EA Recessed Prewired Assembly With Flush Style Cover (Wiremold 8ATP).....	1,138.53	59.30
Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" [83mm] below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0331 EA Recessed Prewired Assembly With Flush Style Cover (Wiremold 8AT2P).....	1,208.11	59.30
Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" [83mm] below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0332 EA Recessed Assembly With Surface Style Cover (Wiremold 8ATC).....	1,127.86	59.30
Note: For carpet, tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0333 EA Recessed Assembly With Flush Style Cover (Wiremold 8AT).....	1,117.73	59.30
Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.		
26 05 33 16-0334 EA Recessed Assembly With Disposable Plate (Wiremold 8STC).....	681.40	55.59
Note: Includes 8" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 8CTC and 8CT Series.		
26 05 33 16-0335 EA Recessed Prewired Assembly With Disposable Plate (Wiremold 8STCP).....	761.32	55.59
Note: Includes 8" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 8CTC and 8CT Series.		
26 05 33 16-0336 EA 8" Pre-Pour Poke-Thru Sleeve (Wiremold 8PPS).....	197.83	29.65
Note: Nonmetallic sleeve attaches to structural decking and maintains 8"-8 1/8" diameter cast in core hole. Unit includes three (3) attachment legs, two (2) end caps and three (3) thumb screws.		
26 05 33 16-0337 EA Surface Style Cover Assembly (Wiremold 8CTC).....	395.56	14.83
Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze. 8CTC Series Cover Assemblies designed for use with 8STC and 8STCP Poke-Thru Stem Assemblies.		
26 05 33 16-0338 EA Flush Style Cover Assembly (Wiremold 8CT).....	395.56	14.83
Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze. 8CTC Series Cover Assemblies designed for use with 8STC and 8STCP Poke-Thru Stem Assemblies. Includes one (1) 8TS Tile Shim.		
26 05 33 16-0339 EA Tile Shim (Wiremold 8TS).....	68.91	3.71
Note: Used for floor coverings greater than 5/16". The 8TS will allow the top surface of the cover to be flush with the finished floor. Includes: two (2) 1/8" thick shims and two (2) 1/16" thick shims. Up to a total of 3/8" [9.5mm] of adjustment.		
26 05 33 16-0340 EA Device Mounting Plate (Wiremold 8B).....	24.38	7.41
Note: Singlegang device plate used to blank off any one (1) of the three (3) gangs in the center compartment, when no devices are used.		
26 05 33 16-0341 EA Device Mounting Plate (Wiremold 8DP).....	24.51	7.41
Note: Singlegang device plate that accepts standard 20 amperes duplex receptacle or a duplex Turnlok receptacle. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0342 EA Device Mounting Plate (Wiremold 8DEC).....	24.65	7.41
Note: Singlegang device plate that will accept Decorator style devices such as 20 amperes receptacles, GGCIs, 106 adapters or A/V devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0343 EA Device Mounting Plate (Wiremold 8ACT6A).....	28.20	7.41
Note: Singlegang device plate that will accept up to six (6) ports of communication devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0344 EA Mosaic Mounting Plate (Wiremold 8MOS).....	33.65	7.41
Note: Device plate accepts three (3) standard Mosaic devices. Devices supplied by others.		
26 05 33 16-0345 EA Crestron Double Gang Plate (Wiremold 8CREST).....	33.60	7.41
Note: Device plate accepts Crestron double-gang decorator style devices.		
26 05 33 16-0346 EA Device Mounting Plate (Wiremold 8S1).....	23.72	7.41
Note: Receptacle opening 1 3/8". For 8" poke-thru units only.		
26 05 33 16-0347 EA Device Mounting Plate (Wiremold 8S2).....	23.99	7.41
Note: Receptacle opening 1 9/16". For 8" poke-thru units only.		
26 05 33 16-0348 EA Device Mounting Plate (Wiremold 8TRAC).....	23.72	7.41
Note: Singlegang device plate that will accept up to six (6) Ortronics TracJack devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0349 EA Device Mounting Plate (Wiremold 8SER).....	23.72	7.41
Note: Singlegang device plate that will accept up to three (3) Ortronics Series II dual modular inserts. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0350 EA Device Mounting Plate (Wiremold 8MAAP).....	33.16	7.41
Note: Singlegang device plate that will accept up to four (4) Extron® Electronics MAAP style plates. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0351 EA Device Mounting Plate (Wiremold 8AAP).....	28.04	7.41
Note: Two-gang device plate that will accept up to four (4) Extron® Electronics AAP style plates. 8AAP takes up 2 of the 3 gangs in the center compartment. Devices supplied by others.		
26 05 33 16-0352 EA 8" Divider (Wiremold 8DIV).....	31.96	7.41
Note: Divider allows for separation of services when required.		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

26 05 33	16-0353	EA	Bottom Housing Assembly (Wiremold 22CHA).....	44.88	14.83
Note: Two-gang 2" trade size conduit housing assembly. Used on 8AT Series devices. Covers two (2) of the three (3) gangs in the center compartment. Only for use with 8AT Series units.					

26 05 43 Underground Ducts and Raceways for Electrical Systems (26 05)

Note: Includes warning tape. See CSI section 33 71 19 23-0000 for underground trenched ductbank.

26 05 43 00-0001 Precast Concrete Trenches, One Piece Pedestrian Trench (26 05 43)

Note: Rated for 200 PSF Pedestrian Weight. Excludes excavation, removal of dirt and sand bedding.

26 05 43 00-0002 10" Wide Pedestrian Trench (26 05 43 00-0001)

26 05 43 00-0003	LF	Base, Solid Bottom 10" Wide x 15" Deep Pedestrian Trench	85.57
26 05 43 00-0004	LF	Base, Open Bottom 10" Wide x 15" Deep Pedestrian Trench	81.80
26 05 43 00-0005	LF	Base, Solid Bottom 10" Wide x 24" Deep Pedestrian Trench	118.85
26 05 43 00-0006	LF	Base, Open Bottom 10" Wide x 24" Deep Pedestrian Trench	113.62
26 05 43 00-0007	EA	End Wall, 10" Wide x 15" Deep Pedestrian Trench	57.67
26 05 43 00-0008	EA	End Wall, 10" Wide x 24" Deep Pedestrian Trench	68.21
26 05 43 00-0009	LF	Lid, Concrete, 10" Wide Pedestrian Trench.....	57.05

26 05 43 00-0010 20" Wide Pedestrian Trench (26 05 43 00-0001)

26 05 43 00-0011	LF	Base, Solid Bottom 20" Wide x 15" Deep Pedestrian Trench	108.39
26 05 43 00-0012	LF	Base, Open Bottom 20" Wide x 15" Deep Pedestrian Trench	101.73
26 05 43 00-0013	LF	Base, Solid Bottom 20" Wide x 24" Deep Pedestrian Trench	146.77
26 05 43 00-0014	LF	Base, Open Bottom 20" Wide x 24" Deep Pedestrian Trench	140.70
26 05 43 00-0015	EA	End Wall, 20" Wide x 15" Deep Pedestrian Trench	72.07
26 05 43 00-0016	EA	End Wall, 20" Wide x 24" Deep Pedestrian Trench	105.02
26 05 43 00-0017	LF	Lid, Concrete, 20" Wide Pedestrian Trench.....	71.34

26 05 43 00-0018 30" Wide Pedestrian Trench (26 05 43 00-0001)

26 05 43 00-0019	LF	Base, Solid Bottom 30" Wide x 15" Deep Pedestrian Trench	138.21
26 05 43 00-0020	LF	Base, Open Bottom 30" Wide x 15" Deep Pedestrian Trench	162.61
26 05 43 00-0021	LF	Base, Solid Bottom 30" Wide x 24" Deep Pedestrian Trench	172.97
26 05 43 00-0022	LF	Base, Open Bottom 30" Wide x 24" Deep Pedestrian Trench	166.06
26 05 43 00-0023	EA	End Wall, 30" Wide x 15" Deep Pedestrian Trench	103.34
26 05 43 00-0024	EA	End Wall, 30" Wide x 24" Deep Pedestrian Trench	140.38
26 05 43 00-0025	LF	Lid, Concrete, 30" Wide Pedestrian Trench.....	89.08

26 05 43 00-0026 40" Wide Pedestrian Trench (26 05 43 00-0001)

26 05 43 00-0027	LF	Base, Solid Bottom 40" Wide x 15" Deep Pedestrian Trench	165.46
26 05 43 00-0028	LF	Base, Open Bottom 40" Wide x 15" Deep Pedestrian Trench	159.18
26 05 43 00-0029	LF	Base, Solid Bottom 40" Wide x 24" Deep Pedestrian Trench	202.49
26 05 43 00-0030	LF	Base, Open Bottom 40" Wide x 24" Deep Pedestrian Trench	194.81
26 05 43 00-0031	EA	End Wall, 40" Wide x 15" Deep Pedestrian Trench	132.28
26 05 43 00-0032	EA	End Wall, 40" Wide x 24" Deep Pedestrian Trench	179.49
26 05 43 00-0033	LF	Lid, Concrete, 40" Wide Pedestrian Trench.....	105.25

26 05 43 00-0034 Precast Concrete Trenches, One Piece Medium Vehicle Trench (26 05 43)

Note: Rated for 7000 lbs Gross Vehicle Weight. Excludes excavation, removal of dirt and sand bedding.

26 05 43 00-0035 10" Wide Medium Vehicle Trench (26 05 43 00-0034)

26 05 43 00-0036	LF	Base, Solid Bottom 10" Wide x 15" Deep Medium Vehicle Trench.....	104.06
26 05 43 00-0037	LF	Base, Open Bottom 10" Wide x 15" Deep Medium Vehicle Trench.....	99.17
26 05 43 00-0038	LF	Base, Solid Bottom 10" Wide x 24" Deep Medium Vehicle Trench.....	144.50
26 05 43 00-0039	LF	Base Open Bottom 10" Wide x 24" Deep Medium Vehicle Trench.....	137.75
26 05 43 00-0040	EA	End Wall, 10" Wide x 15" Deep Medium Vehicle Trench	67.95
26 05 43 00-0041	EA	End Wall, 10" Wide x 24" Deep Medium Vehicle Trench	78.98
26 05 43 00-0042	LF	Lid, Concrete 10" Wide Medium Vehicle Trench	69.37
26 05 43 00-0043	LF	Lid, Galvanized Steel 10" Wide Medium Vehicle Trench.....	310.25

26 05 43 00-0044 20" Wide Medium Vehicle Trench (26 05 43 00-0034)

26 05 43 00-0045	LF	Base, Solid Bottom 20" Wide x 15" Deep Medium Vehicle Trench.....	130.96
26 05 43 00-0046	LF	Base, Open Bottom 20" Wide x 15" Deep Medium Vehicle Trench.....	122.37
26 05 43 00-0047	LF	Base, Solid Bottom 20" Wide x 24" Deep Medium Vehicle Trench.....	176.53
26 05 43 00-0048	LF	Base Open Bottom 20" Wide x 24" Deep Medium Vehicle Trench.....	168.68
26 05 43 00-0049	EA	End Wall, 20" Wide x 15" Deep Medium Vehicle Trench	83.96
26 05 43 00-0050	EA	End Wall, 20" Wide x 24" Deep Medium Vehicle Trench	122.52
26 05 43 00-0051	LF	Lid, Concrete 20" Wide Medium Vehicle Trench	86.75
26 05 43 00-0052	LF	Lid, Galvanized Steel 20" Wide Medium Vehicle Trench.....	411.47

26 05 43 00-0053 30" Wide Medium Vehicle Trench (26 05 43 00-0034)

26 05 43 00-0054	LF	Base, Solid Bottom 30" Wide x 15" Deep Medium Vehicle Trench.....	131.36
26 05 43 00-0055	LF	Base, Open Bottom 30" Wide x 15" Deep Medium Vehicle Trench.....	157.85
26 05 43 00-0056	LF	Base, Solid Bottom 30" Wide x 24" Deep Medium Vehicle Trench.....	206.84
26 05 43 00-0057	LF	Base Open Bottom 30" Wide x 24" Deep Medium Vehicle Trench.....	197.91

26 Electrical**26 05 Common Work Results for Electrical****26 05 43 Underground Ducts and Raceways for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0058 EA End Wall, 30" Wide x 15" Deep Medium Vehicle Trench.....	119.75	
26 05 43 00-0059 EA End Wall, 30" Wide x 24" Deep Medium Vehicle Trench.....	164.66	
26 05 43 00-0060 LF Lid, Concrete 30" Wide Medium Vehicle Trench.....	108.60	
26 05 43 00-0061 LF Lid, Galvanized Steel 30" Wide Medium Vehicle Trench.....	513.68	
26 05 43 00-0062 40" Wide Medium Vehicle Trench (26 05 43 00-0034)		
26 05 43 00-0063 LF Base, Solid Bottom 40" Wide x 15" Deep Medium Vehicle Trench.....	196.25	
26 05 43 00-0064 LF Base, Open Bottom 40" Wide x 15" Deep Medium Vehicle Trench.....	188.13	
26 05 43 00-0065 LF Base, Solid Bottom 40" Wide x 24" Deep Medium Vehicle Trench.....	240.25	
26 05 43 00-0066 LF Base Open Bottom 40" Wide x 24" Deep Medium Vehicle Trench.....	230.29	
26 05 43 00-0067 EA End Wall, 40" Wide x 15" Deep Medium Vehicle Trench.....	153.29	
26 05 43 00-0068 EA End Wall, 40" Wide x 24" Deep Medium Vehicle Trench.....	210.49	
26 05 43 00-0069 LF Lid, Concrete 40" Wide Medium Vehicle Trench.....	127.82	
26 05 43 00-0070 LF Lid, Galvanized Steel 40" Wide Medium Vehicle Trench.....	698.45	
26 05 43 00-0071 Precast Concrete Trenches, One Piece H20 Road Crossing Trench (26 05 43)		
Note: H20 Rated for 32000 lbs Gross Vehicle Weight. Excludes excavation, removal of dirt and sand bedding.		
26 05 43 00-0072 10" Wide H20 Road Crossing Trench (26 05 43 00-0071)		
26 05 43 00-0073 LF Base, Solid Bottom for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench.....	225.96	
26 05 43 00-0074 LF Base, Open Bottom for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench.....	215.00	
26 05 43 00-0075 LF Base, Solid Bottom for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench.....	282.19	
26 05 43 00-0076 LF Base, Open Bottom for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench.....	268.36	
26 05 43 00-0077 LF Base, Solid Bottom for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench.....	216.93	
26 05 43 00-0078 LF Base, Open Bottom for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench.....	206.50	
26 05 43 00-0079 LF Base, Solid Bottom for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench.....	273.16	
26 05 43 00-0080 LF Base, Open Bottom for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench.....	259.90	
26 05 43 00-0081 EA End Wall for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench.....	149.19	
26 05 43 00-0082 EA End Wall for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench.....	201.94	
26 05 43 00-0083 EA End Wall for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench.....	134.87	
26 05 43 00-0084 EA End Wall for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench.....	187.30	
26 05 43 00-0085 LF Lid, Concrete 10" Wide Road Crossing Trench.....	104.15	
26 05 43 00-0086 LF Lid, Galvanized Steel 10" Wide Road Crossing Trench.....	336.71	
26 05 43 00-0087 20" Wide H20 Road Crossing Trench (26 05 43 00-0071)		
26 05 43 00-0088 LF Base, Solid Bottom for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench.....	239.32	
26 05 43 00-0089 LF Base, Open Bottom for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench.....	228.08	
26 05 43 00-0090 LF Base, Solid Bottom for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench.....	316.48	
26 05 43 00-0091 LF Base, Open Bottom for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench.....	301.45	
26 05 43 00-0092 LF Base, Solid Bottom for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench.....	239.32	
26 05 43 00-0093 LF Base, Open Bottom for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench.....	228.08	
26 05 43 00-0094 LF Base, Solid Bottom for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench.....	307.46	
26 05 43 00-0095 LF Base, Open Bottom for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench.....	292.98	
26 05 43 00-0096 EA End Wall for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench.....	213.14	
26 05 43 00-0097 EA End Wall for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench.....	289.99	
26 05 43 00-0098 EA End Wall for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench.....	192.29	
26 05 43 00-0099 EA End Wall for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench.....	269.14	
26 05 43 00-0100 LF Lid, Concrete 20" Wide Road Crossing Trench.....	116.07	
26 05 43 00-0101 LF Lid, Galvanized Steel 20" Wide Road Crossing Trench.....	499.56	
26 05 43 00-0102 30" Wide H20 Road Crossing Trench (26 05 43 00-0071)		
26 05 43 00-0103 LF Base, Solid Bottom for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench.....	282.27	
26 05 43 00-0104 LF Base, Open Bottom for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench.....	269.42	
26 05 43 00-0105 LF Base, Solid Bottom for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench.....	349.04	
26 05 43 00-0106 LF Base, Open Bottom for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench.....	333.07	
26 05 43 00-0107 LF Base, Solid Bottom for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench.....	273.25	
26 05 43 00-0108 LF Base, Open Bottom for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench.....	260.92	
26 05 43 00-0109 LF Base, Solid Bottom for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench.....	340.01	
26 05 43 00-0110 LF Base, Open Bottom for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench.....	324.29	
26 05 43 00-0111 EA End Wall for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench.....	284.11	
26 05 43 00-0112 EA End Wall for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench.....	376.34	
26 05 43 00-0113 EA End Wall for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench.....	256.72	
26 05 43 00-0114 EA End Wall for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench.....	348.95	
26 05 43 00-0115 LF Lid, Concrete 30" Wide Road Crossing Trench.....	146.95	
26 05 43 00-0116 LF Lid, Galvanized Steel 30" Wide Road Crossing Trench.....	626.46	
26 05 43 00-0117 40" Wide H20 Road Crossing Trench (26 05 43 00-0071)		
26 05 43 00-0118 LF Base, Solid Bottom for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench.....	311.37	
26 05 43 00-0119 LF Base, Open Bottom for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench.....	297.54	
26 05 43 00-0120 LF Base, Solid Bottom for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench.....	383.35	
26 05 43 00-0121 LF Base, Open Bottom for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench.....	366.02	
26 05 43 00-0122 LF Base, Solid Bottom for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench.....	302.34	
26 05 43 00-0123 LF Base, Open Bottom for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench.....	289.08	
26 05 43 00-0124 LF Base, Solid Bottom for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench.....	374.33	
26 05 43 00-0125 LF Base, Open Bottom for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench.....	357.52	
26 05 43 00-0126 EA End Wall for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench.....	352.52	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0127	EA		End Wall for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench	466.69	
26 05 43 00-0128	EA		End Wall for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench.....	318.90	
26 05 43 00-0129	EA		End Wall for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench.....	433.07	
26 05 43 00-0130	LF		Lid, Concrete 40" Wide Road Crossing Trench	177.47	
26 05 43 00-0131	LF		Lid, Galvanized Steel 40" Wide Road Crossing Trench.....	851.91	

26 05 46 Utility Poles for Electrical Systems (26 05)

26 05 46 00-0001 Wood Poles (26 05 46)

26 05 46 00-0002 Wood Pole, Class 3, Penta-Treated To 8 LB Retention (26 05 46 00-0001)

Note: Machine dig and set.

26 05 46 00-0003	EA	25' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,074.56	376.23
		For Class 1 Pole, Add	112.69	
		For Class 2 Pole, Add	64.39	
		For Class 4 Pole, Deduct	-32.20	
		For Class 5 Pole, Deduct	-96.59	
		For Class 6 Pole, Deduct	-128.79	
26 05 46 00-0004	EA	30' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,272.05	417.43
		For Class 1 Pole, Add	153.00	
		For Class 2 Pole, Add	87.43	
		For Class 4 Pole, Deduct	-43.71	
		For Class 5 Pole, Deduct	-131.14	
		For Class 6 Pole, Deduct	-174.86	
26 05 46 00-0005	EA	35' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,653.71	552.09
		For Class 1 Pole, Add	192.40	
		For Class 2 Pole, Add	109.94	
		For Class 4 Pole, Deduct	-54.97	
		For Class 5 Pole, Deduct	-164.91	
		For Class 6 Pole, Deduct	-219.88	
26 05 46 00-0006	EA	40' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,881.92	607.23
		For Class 1 Pole, Add	233.63	
		For Class 2 Pole, Add	133.50	
		For Class 4 Pole, Deduct	-66.75	
		For Class 5 Pole, Deduct	-200.25	
		For Class 6 Pole, Deduct	-267.00	
26 05 46 00-0007	EA	45' Treated Wood Pole, Class 3, Machine Dig And Set.....	2,143.29	676.31
		For Class 1 Pole, Add	276.68	
		For Class 2 Pole, Add	158.10	
		For Class 4 Pole, Deduct	-79.05	
		For Class 5 Pole, Deduct	-237.16	
		For Class 6 Pole, Deduct	-316.21	
26 05 46 00-0008	EA	50' Treated Wood Pole, Class 3, Machine Dig And Set.....	2,434.19	759.03
		For Class 1 Pole, Add	320.66	
		For Class 2 Pole, Add	183.23	
		For Class 4 Pole, Deduct	-91.62	
		For Class 5 Pole, Deduct	-274.85	
		For Class 6 Pole, Deduct	-366.47	
26 05 46 00-0009	EA	55' Treated Wood Pole, Class 3, Machine Dig And Set.....	2,716.87	834.85
		For Class 1 Pole, Add	366.47	
		For Class 2 Pole, Add	209.41	
		For Class 4 Pole, Deduct	-104.71	
		For Class 5 Pole, Deduct	-314.12	
		For Class 6 Pole, Deduct	-418.82	
26 05 46 00-0010	EA	60' Treated Wood Pole, Class 3, Machine Dig And Set.....	3,029.87	918.05
		For Class 1 Pole, Add	417.77	
		For Class 2 Pole, Add	238.73	
		For Class 4 Pole, Deduct	-119.36	
		For Class 5 Pole, Deduct	-358.09	
		For Class 6 Pole, Deduct	-477.46	
26 05 46 00-0011	EA	65' Treated Wood Pole, Class 3, Machine Dig And Set.....	4,751.63	1,000.61
		For Class 1 Pole, Add	962.62	
		For Class 2 Pole, Add	550.07	
		For Class 4 Pole, Deduct	-275.04	
		For Class 5 Pole, Deduct	-825.11	
		For Class 6 Pole, Deduct	-1,100.14	
26 05 46 00-0012	EA	70' Treated Wood Pole, Class 3, Machine Dig And Set.....	5,203.65	1,064.41
		For Class 1 Pole, Add	1,076.18	
		For Class 2 Pole, Add	614.96	
		For Class 4 Pole, Deduct	-307.48	
		For Class 5 Pole, Deduct	-922.44	
		For Class 6 Pole, Deduct	-1,229.92	
26 05 46 00-0013	EA	75' Treated Wood Pole, Class 3, Machine Dig And Set.....	5,706.21	1,136.86
		For Class 1 Pole, Add	1,201.34	
		For Class 2 Pole, Add	686.48	
		For Class 4 Pole, Deduct	-343.24	
		For Class 5 Pole, Deduct	-1,029.72	
		For Class 6 Pole, Deduct	-1,372.96	

26 05 46 00-0014 Steel Service Poles Distribution (26 05 46)

Note: Direct embedded, bearing plate on base end, pole cap on top end, grounding nut, galvanized finish.

26 05 46 00-0015 Removal And Relocation Of Steel Service Poles (26 05 46 00-0014)

26 05 46 00-0016	LF	Removal And Relocation Of Steel Service Poles With Arms Up To 60'	56.09	

26 Electrical**26 05 Common Work Results for Electrical****26 05 46 Utility Poles for Electrical Systems**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 05 46 00-0017 Special Steel Bases For Poles (26 05 46 00-0014)

26 05 46 00-0018	EA	Spin-In Steel Base For Poles.....	313.92	
26 05 46 00-0019	EA	Series 3, 25' Pole And less.....	346.33	80.15
26 05 46 00-0020	EA	Series 4, 40' Pole And less.....	411.73	92.17
26 05 46 00-0021	EA	Series 5, 50' Pole And less.....	469.10	100.19

26 05 53 Identification for Electrical Systems (26 05)**26 05 53 00-0001 Conduit Markers Pressure-Sensitive** (26 05 53)

Note: Stick-on, includes arrow tape.

26 05 53 00-0002	EA	1/2" Outside Diameter Pressure Sensitive Marker Stick-on.....	15.06	
26 05 53 00-0003	EA	3/4" Outside Diameter Pressure Sensitive Marker Stick-on.....	15.80	
26 05 53 00-0004	EA	1" Outside Diameter Pressure Sensitive Marker Stick-on.....	17.30	
26 05 53 00-0005	EA	1-1/4" Outside Diameter Pressure Sensitive Marker Stick-on.....	17.59	
26 05 53 00-0006	EA	1-1/2" Outside Diameter Pressure Sensitive Marker Stick-on.....	17.89	
26 05 53 00-0007	EA	2" Outside Diameter Pressure Sensitive Marker Stick-on.....	18.34	
26 05 53 00-0008	EA	2-1/2" Outside Diameter Pressure Sensitive Marker Stick-on.....	20.60	
26 05 53 00-0009	EA	3" Outside Diameter Pressure Sensitive Marker Stick-on.....	21.18	
26 05 53 00-0010	EA	3-1/2" Outside Diameter Pressure Sensitive Marker Stick-on.....	21.63	
26 05 53 00-0011	EA	4" Outside Diameter Pressure Sensitive Marker Stick-on.....	22.09	
26 05 53 00-0012	EA	4-1/2" Outside Diameter Pressure Sensitive Marker Stick-on.....	23.01	
26 05 53 00-0013	EA	5" Outside Diameter Pressure Sensitive Marker Stick-on.....	24.01	
26 05 53 00-0014	EA	6" Outside Diameter Pressure Sensitive Marker Stick-on.....	24.88	
26 05 53 00-0015	EA	7" Outside Diameter Pressure Sensitive Marker Stick-on.....	25.76	
26 05 53 00-0016	EA	8" Outside Diameter Pressure Sensitive Marker Stick-on.....	27.71	
26 05 53 00-0017	EA	10" Outside Diameter Pressure Sensitive Marker Stick-on.....	29.33	

26 05 53 00-0018 Labeling Existing Electrical Wires (26 05 53)

Note: Self-adhesive vinyl coated white cloth

26 05 53 00-0019	EA	Labeling Existing Wire.....	4.55	

26 05 83 Wiring Connections (26 05)**26 05 83 00-0001 Tape Wrapped Compression Connectors** (26 05 83)

26 05 83 00-0002	EA	#6 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	19.60	6.67
26 05 83 00-0003	EA	#4 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	21.46	7.41
26 05 83 00-0004	EA	#2 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	23.20	8.15
26 05 83 00-0005	EA	1/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	26.79	8.90
26 05 83 00-0006	EA	2/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	28.83	9.64
26 05 83 00-0007	EA	3/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	31.95	10.38
26 05 83 00-0008	EA	4/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	34.24	11.12
26 05 83 00-0009	EA	250 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	37.28	11.86
26 05 83 00-0010	EA	300 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	41.26	13.34
26 05 83 00-0011	EA	350 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	43.29	14.09
26 05 83 00-0012	EA	400 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	48.11	14.83
26 05 83 00-0013	EA	500 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	52.32	15.57
26 05 83 00-0014	EA	750 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	58.43	17.05
26 05 83 00-0015	EA	1,000 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	67.75	19.27

26 05 83 00-0016 One Hole Compression Lugs (26 05 83)

26 05 83 00-0017	EA	#22-18 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	25.56	19.27
26 05 83 00-0018	EA	#16-14 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	25.74	19.27
26 05 83 00-0019	EA	#12-10 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	29.13	20.76
26 05 83 00-0020	EA	#8 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	36.04	22.98
26 05 83 00-0021	EA	#6 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	50.62	29.65
26 05 83 00-0022	EA	#4 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	59.27	29.65
26 05 83 00-0023	EA	#2 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	68.21	29.65
26 05 83 00-0024	EA	1/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	84.00	44.47
26 05 83 00-0025	EA	2/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	98.44	44.47
26 05 83 00-0026	EA	3/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	115.19	44.47
26 05 83 00-0027	EA	4/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	138.88	59.30
26 05 83 00-0028	EA	250 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	164.70	88.95
26 05 83 00-0029	EA	300 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	188.41	88.95
26 05 83 00-0030	EA	350 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	202.49	88.95
26 05 83 00-0031	EA	400 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	220.54	103.77
26 05 83 00-0032	EA	500 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	241.13	103.77
26 05 83 00-0033	EA	750 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	262.02	118.59
26 05 83 00-0034	EA	1,000 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	308.09	133.42

26 05 83 00-0035 Two Hole Compression Lugs (26 05 83)

26 05 83 00-0036	EA	#8 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	52.19	25.21
26 05 83 00-0037	EA	#6 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	56.04	26.83
26 05 83 00-0038	EA	#4 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	59.06	26.83



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0039	EA		#2 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	67.97	30.84
26 05 83 00-0040	EA		1/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	83.74	38.54
26 05 83 00-0041	EA		2/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	98.18	45.80
26 05 83 00-0042	EA		3/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	114.89	53.67
26 05 83 00-0043	EA		4/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	138.54	65.08
26 05 83 00-0044	EA		250 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	164.31	77.24
26 05 83 00-0045	EA		300 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	187.96	88.21
26 05 83 00-0046	EA		350 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	202.02	95.02
26 05 83 00-0047	EA		400 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	219.98	102.89
26 05 83 00-0048	EA		500 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	240.50	112.37
26 05 83 00-0049	EA		750 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	262.81	121.86
26 05 83 00-0050	EA		1,000 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	325.31	148.25
26 05 83 00-0051 Tape Wrapped Split Bolt Connectors (26 05 83)					
26 05 83 00-0052	EA		#8 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	77.96	59.30
26 05 83 00-0053	EA		#6 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	85.73	63.75
26 05 83 00-0054	EA		#4 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	97.72	66.71
26 05 83 00-0055	EA		#2 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	113.45	74.12
26 05 83 00-0056	EA		1/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	133.94	81.54
26 05 83 00-0057	EA		2/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	150.20	88.95
26 05 83 00-0058	EA		3/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	187.74	96.35
26 05 83 00-0059	EA		4/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	201.42	103.77
26 05 83 00-0060	EA		250 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	212.30	111.18
26 05 83 00-0061	EA		300 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	242.25	122.30
26 05 83 00-0062	EA		350 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	272.19	177.89
26 05 83 00-0063	EA		400 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	298.16	148.25
26 05 83 00-0064	EA		500 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	324.12	200.13
26 05 83 00-0065	EA		750 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	359.67	207.55
26 05 83 00-0066	EA		1,000 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	407.38	222.36
26 05 83 00-0067 Cable Termination Lugs Handwrapped, No Stress Cone (26 05 83)					
26 05 83 00-0068	EA		#8 Or #6 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	128.95	59.30
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.13	
26 05 83 00-0069	EA		#4 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	143.45	59.30
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.30	
26 05 83 00-0070	EA		1/0 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	198.62	88.95
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.42	
26 05 83 00-0071	EA		4/0 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	225.47	88.95
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	57.02	
26 05 83 00-0072	EA		300 MCM Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	269.81	111.18
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	67.39	
26 05 83 00-0073	EA		500 MCM Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	377.05	148.25
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	92.65	
26 05 83 00-0074 Terminal Blocks (26 05 83)					
			Note: Labor excludes wire termination.		
26 05 83 00-0075	EA		Power Distribution Block, 250 MCM 3 Phase Terminal Block, No Labor Wire Termination, 600 Volt.....	1,303.88	548.50
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	329.43	
26 05 83 00-0076	EA		#22 To #10 Wire Size, 12 Point, 600 Volt Terminal Block.....	335.29	74.22
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.96	
26 05 83 00-0077	EA		#8 To #2 Wire Size, 12 Point, 600 Volt Terminal Block.....	370.04	74.22
			For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.44	
26 05 83 00-0078 Parallel Gutter Tap Or Motor Connection (26 05 83)					
26 05 83 00-0079	EA		#8 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	52.17	26.83
26 05 83 00-0080	EA		#6 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	56.04	26.83
26 05 83 00-0081	EA		#4 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	59.06	26.83
26 05 83 00-0082	EA		#2 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	67.97	30.84
26 05 83 00-0083	EA		1/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	83.74	38.54
26 05 83 00-0084	EA		2/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	98.18	45.80
26 05 83 00-0085	EA		3/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	114.89	53.67
26 05 83 00-0086	EA		4/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	138.54	65.08
26 05 83 00-0087	EA		250 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	164.31	77.24
26 05 83 00-0088	EA		300 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	187.96	88.21
26 05 83 00-0089	EA		350 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	202.02	95.02
26 05 83 00-0090	EA		400 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	219.98	102.89
26 05 83 00-0091	EA		500 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	240.50	112.37
26 05 83 00-0092	EA		750 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	241.06	112.37
26 05 83 00-0093	EA		#8 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	52.17	26.83
26 05 83 00-0094	EA		#6 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	56.04	26.83
26 05 83 00-0095	EA		#4 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	59.06	26.83
26 05 83 00-0096	EA		#2 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	67.97	30.84
26 05 83 00-0097	EA		1/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	83.74	38.54
26 05 83 00-0098	EA		2/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	98.18	45.80
26 05 83 00-0099	EA		3/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	114.89	53.67
26 05 83 00-0100	EA		4/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover.....	138.54	65.08
26 05 83 00-0101	EA		250 MCM Parallel Gutter Tap, Versitap, Insulating Cover.....	164.31	77.24

26 Electrical**26 05 Common Work Results for Electrical****26 05 83 Wiring Connections**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0102 EA 300 MCM Parallel Gutter Tap, Versitap, Insulating Cover	187.96	88.21
26 05 83 00-0103 EA 350 MCM Parallel Gutter Tap, Versitap, Insulating Cover	202.02	95.02
26 05 83 00-0104 EA 400 MCM Parallel Gutter Tap, Versitap, Insulating Cover	219.98	102.89
26 05 83 00-0105 EA 500 MCM Parallel Gutter Tap, Versitap, Insulating Cover	240.50	112.37
26 05 83 00-0106 EA 750 MCM Parallel Gutter Tap, Versitap, Insulating Cover	241.06	112.37
26 05 83 00-0107 Copper Mechanical Lugs (26 05 83)		
26 05 83 00-0108 EA #8 Copper Mechanical Lugs	41.36	18.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.12	
26 05 83 00-0109 EA #6 Copper Mechanical Lugs	49.67	22.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.43	
26 05 83 00-0110 EA #4 Copper Mechanical Lugs	57.41	25.95
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.56	
26 05 83 00-0111 EA #2 Copper Mechanical Lugs	74.89	33.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.85	
26 05 83 00-0112 EA 1/0 Copper Mechanical Lugs	100.83	44.47
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.69	
26 05 83 00-0113 EA 2/0 Copper Mechanical Lugs	119.80	51.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.00	
26 05 83 00-0114 EA 3/0 Copper Mechanical Lugs	139.76	59.30
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.58	
26 05 83 00-0115 EA 4/0 Copper Mechanical Lugs	158.80	66.56
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.90	
26 05 83 00-0116 EA 250 MCM Copper Mechanical Lugs	181.24	74.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.47	
26 05 83 00-0117 EA 300 MCM Copper Mechanical Lugs	203.33	81.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.94	
26 05 83 00-0118 EA 350 MCM Copper Mechanical Lugs	225.31	88.95
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	53.36	
26 05 83 00-0119 EA 400 MCM Copper Mechanical Lugs	247.16	96.35
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	57.77	
26 05 83 00-0120 EA 500 MCM Copper Mechanical Lugs	269.36	103.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.26	
26 05 83 00-0121 EA 750 MCM Copper Mechanical Lugs	305.46	118.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	70.93	
26 05 83 00-0122 EA 1,000 MCM Copper Mechanical Lugs	345.70	133.42
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	80.05	
26 05 83 00-0123 Gel Connectors (26 05 83)		
26 05 83 00-0124 EA 3 Port, #14 to 2/0, Push On Gel Stub Splice Kit	68.05	
Note: Kit contains connector, gel filled cap and cap clamp.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.46	
26 05 83 00-0125 EA 4 Port, #14 to 2, Gel Tap Splice Kit	66.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.35	
26 05 83 00-0126 Other Connections (26 05 83)		
26 05 83 00-0127 EA #14 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape	14.71	6.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.07	
26 05 83 00-0128 EA #12 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape	14.83	6.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.07	
26 05 83 00-0129 EA #10 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape	14.95	6.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.07	

26 09 Instrumentation and Control for Electrical Systems (26)**26 09 23 Lighting Control Devices (26 09)****26 09 23 00-0001 Street Light Controls (26 09 23)****26 09 23 00-0002 Photo Controls (26 09 23 00-0001)**

26 09 23 00-0003 EA Photo Control, 120 Volt As Manufactured By Cooper Lighting #RA1014	113.10	
26 09 23 00-0004 EA Photo Control, Multi-Tap As Manufactured By Cooper Lighting #RA1016	127.50	

26 09 23 00-0005 Connector Node (26 09 23 00-0001)

26 09 23 00-0006 EA Outdoor Lighting Connector Node (Philips City Touch LLC7260)	525.17	3.08

26 20 Low-Voltage Electrical Distribution (26)**26 21 Low-Voltage Electrical Service Entrance (26 20)**

See CSI section 26 05 13 00-0000 for wire and cables.

26 21 13 Low-Voltage Overhead Electrical Service Entrance (26 21)

26 21 13 00-0001 Service Drop Cable And Weatherheads (26 21 13)		
26 21 13 00-0002 600 Volt Insulated Stranded Conductors (26 21 13 00-0001)		



		Electrical	26
		Low-Voltage Electrical Distribution	26 20
		Low-Voltage Electrical Service Entrance	26 21

26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 21 13 00-0003 Aluminum Duplex ACSR Neutral (26 21 13 00-0002)		
26 21 13 00-0004 LF #6 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	10.24	3.81
26 21 13 00-0005 LF #4 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	12.34	4.52
26 21 13 00-0006 LF #2 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	14.56	5.09
26 21 13 00-0007 LF 1/0 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	19.43	6.41
26 21 13 00-0008 Aluminum Triplex ACSR Neutral (26 21 13 00-0002)		
26 21 13 00-0009 LF #6 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	12.51	4.52
26 21 13 00-0010 LF #4 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	14.35	5.09
26 21 13 00-0011 LF #2 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	18.22	6.41
26 21 13 00-0012 LF 1/0 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	22.88	7.82
26 21 13 00-0013 LF 2/0 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	29.83	10.35
26 21 13 00-0014 LF 4/0 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	38.09	12.82
26 21 13 00-0015 LF 336 MCM, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	50.99	15.27
26 21 13 00-0016 Aluminum Quadruplex ACSR Neutral (26 21 13 00-0002)		
26 21 13 00-0017 LF #6 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	14.39	5.09
26 21 13 00-0018 LF #4 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	18.22	6.41
26 21 13 00-0019 LF #2 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	23.53	8.22
26 21 13 00-0020 LF 1/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	30.78	10.35
26 21 13 00-0021 LF 2/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	34.29	11.45
26 21 13 00-0022 LF 3/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	39.68	12.82
26 21 13 00-0023 LF 4/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	46.65	15.27
26 21 13 00-0024 LF 336 MCM, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	58.45	16.87
26 21 13 00-0025 Weatherproof Conduit Hubs (26 21 13 00-0002)		
26 21 13 00-0026 EA 1/2" Weatherproof Conduit Hubs.....	68.10	26.09
26 21 13 00-0027 EA 3/4" Weatherproof Conduit Hubs.....	77.64	29.65
26 21 13 00-0028 EA 1" Weatherproof Conduit Hubs.....	89.63	33.21
26 21 13 00-0029 EA 1-1/4" Weatherproof Conduit Hubs.....	124.18	44.47
26 21 13 00-0030 EA 1-1/2" Weatherproof Conduit Hubs.....	136.17	48.03
26 21 13 00-0031 EA 2" Weatherproof Conduit Hubs.....	173.10	55.74
26 21 13 00-0032 EA 2-1/2" Weatherproof Conduit Hubs.....	222.68	62.85
26 21 13 00-0033 EA 3" Weatherproof Conduit Hubs.....	284.42	74.12
26 21 13 00-0034 EA 4" Weatherproof Conduit Hubs.....	511.37	148.25
26 21 13 00-0035 Service Entrance Cap, Threaded Weatherhead, Galvanized (26 21 13 00-0002)		
26 21 13 00-0036 EA 1/2" Galvanized Threaded Service Entrance Weatherhead Cap For #14 Through #10 AWG Cable Service.....	74.69	26.09
26 21 13 00-0037 EA 3/4" Galvanized Threaded Service Entrance Weatherhead Cap For #12 Through #8 AWG Cable Service.....	85.53	29.65
26 21 13 00-0038 EA 1" Galvanized Threaded Service Entrance Weatherhead Cap For #6 AWG Cable Service.....	97.59	33.21
26 21 13 00-0039 EA 1-1/4" Galvanized Threaded Service Entrance Weatherhead Cap For #4 Through #2 AWG Cable Service.....	131.05	44.47
26 21 13 00-0040 EA 1-1/2" Galvanized Threaded Service Entrance Weatherhead Cap For #4 Through #2 AWG Cable Service.....	147.15	48.03
26 21 13 00-0041 EA 2" Galvanized Threaded Service Entrance Weatherhead Cap For 1/0 Through 2/0 AWG Cable Service.....	189.92	55.74
26 21 13 00-0042 EA 2-1/2" Galvanized Threaded Service Entrance Weatherhead Cap For 3/0 Through 4/0 Cable Service.....	305.13	62.85
26 21 13 00-0043 EA 3" Galvanized Threaded Service Entrance Weatherhead Cap For 250 Through 350 MCM Cable Service.....	348.55	74.12
26 21 13 00-0044 EA 4" Galvanized Threaded Service Entrance Weatherhead Cap For 600 Through 750 MCM Cable Service.....	585.36	148.25
26 21 13 00-0045 Service Entrance Cap, Clamp-On Weatherhead, Aluminum (26 21 13 00-0002)		
26 21 13 00-0046 EA 1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For #14 To #12 AWG Cable Service.....	72.62	26.09
26 21 13 00-0047 EA 3/4" Aluminum Clamp-On Service Entrance Weatherhead Cap For #10 To #8 AWG Cable Service.....	82.05	29.65
26 21 13 00-0048 EA 1" Aluminum Clamp-On Service Entrance Weatherhead Cap For #6 AWG Cable Service.....	92.89	33.06
26 21 13 00-0049 EA 1-1/4" Aluminum Clamp-On Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service.....	123.63	44.47
26 21 13 00-0050 EA 1-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service.....	137.13	48.03
26 21 13 00-0051 EA 2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 1/0 To 2/0 AWG Cable Service.....	161.27	55.74
26 21 13 00-0052 EA 2-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 3/0 To 4/0 Cable Service.....	251.38	62.85
26 21 13 00-0053 EA 3" Aluminum Clamp-On Service Entrance Weatherhead Cap For 250 To 350 MCM Cable Service.....	321.52	74.12
26 21 13 00-0054 EA 3-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 400 To 500 MCM Cable Service.....	455.83	111.18
26 21 13 00-0055 EA 4" Aluminum Clamp-On Service Entrance Weatherhead Cap For 600 To 750 MCM Cable Service.....	553.19	148.25
26 21 13 00-0056 Service Entrance Cap, Threaded Weatherhead, Polyvinyl Chloride (PVC) (26 21 13 00-0002)		
26 21 13 00-0057 EA 1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #14 To #12 AWG Cable Service.....	70.56	26.09
26 21 13 00-0058 EA 3/4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #10 To #8 AWG Cable Service.....	80.65	29.65
26 21 13 00-0059 EA 1" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #6 AWG Cable Service.....	91.42	33.06
26 21 13 00-0060 EA 1-1/4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service.....	121.87	44.47
26 21 13 00-0061 EA 1-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service.....	132.59	48.03
26 21 13 00-0062 EA 2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 1/0 To 2/0 AWG Cable Service.....	161.46	55.74
26 21 13 00-0063 EA 2-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 3/0 To 4/0 Cable Service.....	258.92	62.85
26 21 13 00-0064 EA 3" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 250 To 350 MCM Cable Service.....	291.49	74.12
26 21 13 00-0065 EA 3-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 400 To 500 MCM Cable Service.....	495.00	111.18
26 21 13 00-0066 EA 4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 600 To 750 MCM Cable Service.....	683.50	148.25

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 21 Low-Voltage Electrical Service Entrance**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

26 21 16 Low-Voltage Underground Electrical Service Entrance (26 21)**26 21 16 00-0001 Aluminum Triplex For Underground Service, Direct Burial (26 21 16)**

Note: Excludes excavation and backfill.

26 21 16 00-0002	MLF #6 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....	5,012.53	1,424.93
26 21 16 00-0003	MLF #4 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....	5,699.39	1,508.76
26 21 16 00-0004	MLF #2 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....	6,680.51	1,603.03
26 21 16 00-0005	MLF 1/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....	7,825.90	1,603.03
26 21 16 00-0006	MLF 2/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....	8,688.10	1,709.95
26 21 16 00-0007	MLF 3/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....	10,303.85	1,973.00
26 21 16 00-0008	MLF 4/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....	12,675.77	2,564.84

26 25 Enclosed Bus Assemblies (26 20)**26 25 13 Low-Voltage Busways (26 25)****26 25 13 00-0001 Plug-In Bus Duct (26 25 13)**

Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers with anchors and hardware support.

26 25 13 00-0002 600 Volt, 3-Phase, 3-Wire, Copper Conductors (26 25 13 00-0001)

26 25 13 00-0003	LF 225 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	274.09	44.47
	For Up To 25, Add	68.52	
	For >25 To 50, Add	41.11	
	For >50 To 100, Add	20.56	
26 25 13 00-0004	LF 400 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	379.02	44.47
	For Up To 25, Add	94.76	
	For >25 To 50, Add	56.85	
	For >50 To 100, Add	28.43	
26 25 13 00-0005	LF 600 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	476.49	59.30
	For Up To 25, Add	119.12	
	For >25 To 50, Add	71.47	
	For >50 To 100, Add	35.74	
26 25 13 00-0006	LF 800 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	646.46	59.30
	For Up To 25, Add	161.62	
	For >25 To 50, Add	96.97	
	For >50 To 100, Add	48.48	
26 25 13 00-0007	LF 1,000 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	682.72	74.12
	For Up To 25, Add	170.68	
	For >25 To 50, Add	102.41	
	For >50 To 100, Add	51.20	
26 25 13 00-0008	LF 1,350 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	937.27	74.12
	For Up To 25, Add	234.32	
	For >25 To 50, Add	140.59	
	For >50 To 100, Add	70.30	
26 25 13 00-0009	LF 1,600 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	1,090.02	77.83
	For Up To 25, Add	272.51	
	For >25 To 50, Add	163.50	
	For >50 To 100, Add	81.75	
26 25 13 00-0010	LF 2,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	1,316.77	80.05
	For Up To 25, Add	329.19	
	For >25 To 50, Add	197.52	
	For >50 To 100, Add	98.76	
26 25 13 00-0011	LF 2,500 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	1,614.98	84.50
	For Up To 25, Add	403.75	
	For >25 To 50, Add	242.25	
	For >50 To 100, Add	121.12	
26 25 13 00-0012	LF 3,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	1,865.48	98.58
	For Up To 25, Add	466.37	
	For >25 To 50, Add	279.82	
	For >50 To 100, Add	139.91	
26 25 13 00-0013	LF 4,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	2,154.17	107.47
	For Up To 25, Add	538.54	
	For >25 To 50, Add	323.13	
	For >50 To 100, Add	161.56	

26 25 13 00-0014 277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors (26 25 13 00-0001)

26 25 13 00-0015	LF 225 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	426.80	44.47
	For Up To 25, Add	106.70	
	For >25 To 50, Add	64.02	
	For >50 To 100, Add	32.01	
26 25 13 00-0016	LF 400 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	607.29	44.47
	For Up To 25, Add	151.82	
	For >25 To 50, Add	91.09	
	For >50 To 100, Add	45.55	
26 25 13 00-0017	LF 600 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	686.61	59.30
	For Up To 25, Add	171.65	
	For >25 To 50, Add	102.99	
	For >50 To 100, Add	51.50	
26 25 13 00-0018	LF 800 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	866.76	59.30
	For Up To 25, Add	216.69	
	For >25 To 50, Add	130.01	
	For >50 To 100, Add	65.01	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Enclosed Bus Assemblies		26 25	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 13 00-0019 LF 1,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors For Up To 25, Add For >25 To 50, Add For >50 To 100, Add	1,052.19 263.05 157.83 78.91	74.12
26 25 13 00-0020 LF 1,350 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors For Up To 25, Add For >25 To 50, Add For >50 To 100, Add	1,352.46 338.12 202.87 101.43	74.12
26 25 13 00-0021 LF 1,600 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors For Up To 25, Add For >25 To 50, Add For >50 To 100, Add	1,740.80 435.20 261.12 130.56	76.79
26 25 13 00-0022 LF 2,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors For Up To 25, Add For >25 To 50, Add For >50 To 100, Add	2,087.85 521.96 313.18 156.59	80.05
26 25 13 00-0023 LF 2,500 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors For Up To 25, Add For >25 To 50, Add For >50 To 100, Add	2,578.92 644.73 386.84 193.42	83.76
26 25 13 00-0024 LF 3,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors For Up To 25, Add For >25 To 50, Add For >50 To 100, Add	2,977.74 744.44 446.66 223.33	98.58
26 25 13 00-0025 LF 4,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors For Up To 25, Add For >25 To 50, Add For >50 To 100, Add	3,446.97 861.74 517.05 258.52	107.47
26 25 13 00-0026 Cable Tap Boxes (26 25 13 00-0001)		
26 25 13 00-0027 600 Volt, 3-Phase, 3-Wire, Copper Conductors (26 25 13 00-0026)		
26 25 13 00-0028 EA 225 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,135.10	207.55
26 25 13 00-0029 EA 400 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,226.91	207.55
26 25 13 00-0030 EA 600 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,419.94	281.66
26 25 13 00-0031 EA 800 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,589.15	281.66
26 25 13 00-0032 EA 1,000 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	2,786.81	370.61
26 25 13 00-0033 EA 1,350 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire	3,057.00	370.61
26 25 13 00-0034 277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors (26 25 13 00-0026)		
26 25 13 00-0035 EA 225 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,226.91	407.67
26 25 13 00-0036 EA 400 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,436.95	407.67
26 25 13 00-0037 EA 600 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,621.67	555.91
26 25 13 00-0038 EA 800 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	2,948.80	555.91
26 25 13 00-0039 EA 1,000 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	3,119.60	741.22
26 25 13 00-0040 EA 1,350 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire	3,542.31	741.22
26 25 13 00-0041 Bus Duct Plug-In Circuit Breaker (26 25 13 00-0001)		
26 25 13 00-0042 240 Volt, 3-Phase (26 25 13 00-0041)		
26 25 13 00-0043 EA 60 Amperes, 240 Volt, 3 Phase, Bus Duct Plug-In Circuit Breaker..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	993.19 81.10	148.25
26 25 13 00-0044 EA 100 Amperes, 240 Volt, 3 Phase, Bus Duct Plug-In Circuit Breaker..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,914.08 104.10	148.25
26 25 13 00-0045 600 Volt, 3-Phase (26 25 13 00-0041)		
26 25 13 00-0046 EA 60 Amperes, 600 Volt, 3 Phase, Bus Duct Plug-in Circuit Breaker..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,837.39 81.10	148.25
26 25 13 00-0047 EA 100 Amperes, 600 Volt, 3 Phase, Bus Duct Plug-in Circuit Breaker..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,378.84 104.10	148.25
26 25 13 00-0048 120/208 Volt, 3-Phase, 4-Wire (26 25 13 00-0041)		
26 25 13 00-0049 EA 60 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,142.92 92.65	177.89
26 25 13 00-0050 EA 100 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Bus Duct Plug-in Circuit Breaker..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,370.93 115.82	177.89
26 25 13 00-0051 277/480 Volt, 3-Phase, 4-Wire (26 25 13 00-0041)		
26 25 13 00-0052 EA 60 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,293.72 92.65	177.89
26 25 13 00-0053 EA 100 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,961.41 115.82	177.89
26 25 13 00-0054 EA 225 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,970.62 266.63	615.21
26 25 13 00-0055 EA 400 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7,028.18 579.08	615.21

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 25 Enclosed Bus Assemblies**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 13 00-0056 EA 600 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,023.71 805.67	1,778.93
26 25 13 00-0057 EA 800 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,489.90 1,425.42	1,778.93
26 25 13 00-0058 Bus Duct Plug-In Fusible Switch (26 25 13 00-0001)		
26 25 13 00-0059 240 Volt, 3-Pole, 3-Fuse (26 25 13 00-0058)		
26 25 13 00-0060 EA 30 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	991.12	148.25
26 25 13 00-0061 EA 60 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,097.07	148.25
26 25 13 00-0062 EA 100 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,503.88	177.89
26 25 13 00-0063 EA 200 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	2,547.97	355.78
26 25 13 00-0064 EA 400 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	6,361.89	800.52
26 25 13 00-0065 EA 600 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	9,649.05	1,393.49
26 25 13 00-0066 600 Volt, 3-Pole, 3-Fuse (26 25 13 00-0058)		
26 25 13 00-0067 EA 30 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,019.90	163.06
26 25 13 00-0068 EA 60 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,123.66	163.06
26 25 13 00-0069 EA 100 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,508.12	163.06
26 25 13 00-0070 EA 200 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	2,596.34	340.96
26 25 13 00-0071 EA 400 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	6,322.29	770.86
26 25 13 00-0072 EA 600 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	9,929.81	1,482.44
26 25 13 00-0073 EA 800 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	15,994.98	1,927.16
26 25 13 00-0074 120/208 Volt, 4-pole, 3 Fuse (26 25 13 00-0058)		
26 25 13 00-0075 EA 30 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,143.47	192.72
26 25 13 00-0076 EA 60 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,240.20	192.72
26 25 13 00-0077 EA 100 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,675.31	192.72
26 25 13 00-0078 EA 200 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	2,836.43	400.25
26 25 13 00-0079 EA 400 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	7,005.98	889.46
26 25 13 00-0080 EA 600 AAmperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	10,228.20	1,363.84
26 25 13 00-0081 277/480 Volt, 4-pole, 3-Fuse (26 25 13 00-0058)		
26 25 13 00-0082 EA 30 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,178.15	192.72
26 25 13 00-0083 EA 60 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,274.88	163.52
26 25 13 00-0084 EA 100 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	1,779.69	222.36
26 25 13 00-0085 EA 200 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	2,948.83	400.25
26 25 13 00-0086 EA 400 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	7,005.98	889.46
26 25 13 00-0087 EA 600 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	10,228.20	1,363.84
26 25 13 00-0088 EA 800 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch.....	15,973.72	1,808.57
26 25 16 Low-Voltage Cablebus Systems (26 25)		
26 25 16 00-0001 Feeder Bus Duct (26 25 16)		
Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers with anchors and hardware support.		
26 25 16 00-0002 600 Volt, 3 Phase, 3 Wire, Ventilated Low Impedance (26 25 16 00-0001)		
Note: Copper conductors.		
26 25 16 00-0003 LF 800 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	760.01	62.26
For Up To 25, Add	190.00	
For >25 To 50, Add	114.00	
For >50 To 100, Add	57.00	
26 25 16 00-0004 LF 1,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	772.59	62.26
For Up To 25, Add	193.15	
For >25 To 50, Add	115.89	
For >50 To 100, Add	57.94	
26 25 16 00-0005 LF 1,350 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	1,003.72	62.26
For Up To 25, Add	250.93	
For >25 To 50, Add	150.56	
For >50 To 100, Add	75.28	
26 25 16 00-0006 LF 1,600 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	1,200.77	62.26
For Up To 25, Add	300.19	
For >25 To 50, Add	180.12	
For >50 To 100, Add	90.06	
26 25 16 00-0007 LF 2,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	1,464.59	62.26
For Up To 25, Add	366.15	
For >25 To 50, Add	219.69	
For >50 To 100, Add	109.84	
26 25 16 00-0008 LF 3,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	2,000.30	148.25
For Up To 25, Add	500.08	
For >25 To 50, Add	300.05	
For >50 To 100, Add	150.02	
26 25 16 00-0009 LF 4,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports.....	2,755.36	148.25
For Up To 25, Add	688.84	
For >25 To 50, Add	413.30	
For >50 To 100, Add	206.65	



		Electrical	26	26
		Low-Voltage Electrical Distribution	26 20	
		Enclosed Bus Assemblies	26 25	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 16 00-0010 LF 5,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports For Up To 25, Add For >25 To 50, Add For >50 To 100, Add	3,260.27 815.07 489.04 244.52	148.25
26 25 16 00-0011 LF 6,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports For Up To 25, Add For >25 To 50, Add For >50 To 100, Add	4,008.77 1,002.19 601.32 300.66	148.25
26 25 16 00-0012 277/480 Volt, 3 Phase, 4 Wire, Half Neutral, Ventilated (26 25 16 00-0001) Note: Low impedance, copper conductors.		
26 25 16 00-0013 LF 800 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports For Up To 25, Add For >25 To 50, Add For >50 To 100, Add	866.84 216.71 130.03 65.01	66.71
26 25 16 00-0014 LF 1,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports For Up To 25, Add For >25 To 50, Add For >50 To 100, Add	883.95 220.99 132.59 66.30	66.71
26 25 16 00-0015 LF 1,350 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports For Up To 25, Add For >25 To 50, Add For >50 To 100, Add	1,130.97 282.74 169.65 84.82	66.71
26 25 16 00-0016 LF 1,600 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports For Up To 25, Add For >25 To 50, Add For >50 To 100, Add	1,340.24 335.06 201.04 100.52	66.71
26 25 16 00-0017 LF 2,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports For Up To 25, Add For >25 To 50, Add For >50 To 100, Add	1,616.62 404.16 242.49 121.25	66.71
26 25 16 00-0018 LF 3,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports For Up To 25, Add For >25 To 50, Add For >50 To 100, Add	2,476.01 619.00 371.40 185.70	114.15
26 25 16 00-0019 LF 4,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports For Up To 25, Add For >25 To 50, Add For >50 To 100, Add	3,104.16 776.04 465.62 232.81	114.15
26 25 16 00-0020 LF 5,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports For Up To 25, Add For >25 To 50, Add For >50 To 100, Add	3,674.40 918.60 551.16 275.58	211.99
26 25 16 00-0021 LF 6,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports For Up To 25, Add For >25 To 50, Add For >50 To 100, Add	4,522.08 1,130.52 678.31 339.16	211.99

26 27 Low-Voltage Distribution Equipment (26 20)

26 27 16 Electrical Cabinets and Enclosures (26 27)

Note: Can be used as enclosure or pull/junction boxes.

26 27 16 00-0001 NEMA 1 Enclosures, Lockable (26 27 16)

26 27 16 00-0002 Hinged Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0001)

26 27 16 00-0003 4" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0002)

26 27 16 00-0004 EA 6" x 4" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	90.69	29.65
26 27 16 00-0005 EA 6" x 6" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	101.46	32.61
26 27 16 00-0006 EA 8" x 6" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	112.31	35.57
26 27 16 00-0007 EA 8" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	131.10	41.51
26 27 16 00-0008 EA 10" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	142.50	44.47
26 27 16 00-0009 EA 10" x 10" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	154.65	47.44
26 27 16 00-0010 EA 12" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	154.27	47.44
26 27 16 00-0011 EA 12" x 10" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	166.68	50.40
26 27 16 00-0012 EA 12" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	179.67	53.37
26 27 16 00-0013 EA 16" x 12" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	233.77	71.16
26 27 16 00-0014 EA 16" x 16" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	283.44	85.99
26 27 16 00-0015 EA 18" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure	269.82	83.02

26 27 16 00-0016 6" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0002)

26 27 16 00-0017 EA 6" x 6" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	113.05	35.57
26 27 16 00-0018 EA 8" x 8" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	136.58	41.51
26 27 16 00-0019 EA 10" x 8" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	163.38	50.40
26 27 16 00-0020 EA 10" x 10" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	176.08	53.37
26 27 16 00-0021 EA 12" x 10" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	189.01	56.33
26 27 16 00-0022 EA 12" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	202.48	59.30
26 27 16 00-0023 EA 16" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	257.83	77.09
26 27 16 00-0024 EA 16" x 16" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	313.16	94.87
26 27 16 00-0025 EA 18" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	302.16	91.91

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0026 EA 18" x 18" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	393.07	118.59
26 27 16 00-0027 EA 24" x 18" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	498.18	136.39
26 27 16 00-0028 EA 24" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	566.23	148.25
26 27 16 00-0029 EA 30" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	627.21	157.13
26 27 16 00-0030 EA 36" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure	680.77	163.06
26 27 16 00-0031 EA 24-1/2" x 12-1/2" x 6-1/2", Hinged Cover, Galvanized Steel NEMA 1 Enclosure (Control Products MH3803L)	463.98	118.59
26 27 16 00-0032 Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0001)		
26 27 16 00-0033 3" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0034 EA 4" x 4" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure	62.20	20.76
26 27 16 00-0035 EA 6" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure	88.89	29.65
26 27 16 00-0036 EA 8" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure	98.93	32.61
26 27 16 00-0037 4" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0038 EA 4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	69.80	23.72
26 27 16 00-0039 EA 6" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	86.65	29.65
26 27 16 00-0040 EA 6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	96.55	32.61
26 27 16 00-0041 EA 8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	106.58	35.57
26 27 16 00-0042 EA 8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	124.35	41.51
26 27 16 00-0043 EA 10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	134.78	44.47
26 27 16 00-0044 EA 10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	145.67	47.44
26 27 16 00-0045 EA 12" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	145.33	47.44
26 27 16 00-0046 EA 12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	156.63	50.40
26 27 16 00-0047 EA 12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	168.22	53.37
26 27 16 00-0048 EA 16" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	220.72	71.16
26 27 16 00-0049 EA 16" x 16" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	273.88	88.95
26 27 16 00-0050 EA 18" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	254.39	83.02
26 27 16 00-0051 EA 18" x 18" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	329.11	106.73
26 27 16 00-0052 EA 24" x 24" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure	464.83	133.42
26 27 16 00-0053 6" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0054 EA 6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	107.07	35.57
26 27 16 00-0055 EA 8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	117.75	38.54
26 27 16 00-0056 EA 8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	135.75	44.47
26 27 16 00-0057 EA 10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	154.08	50.40
26 27 16 00-0058 EA 10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	165.53	53.37
26 27 16 00-0059 EA 12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	177.08	56.33
26 27 16 00-0060 EA 12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	189.04	59.30
26 27 16 00-0061 EA 16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	242.62	77.09
26 27 16 00-0062 EA 16" x 16" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	298.18	94.87
26 27 16 00-0063 EA 18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	284.26	91.91
26 27 16 00-0064 EA 18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	369.15	118.59
26 27 16 00-0065 EA 24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	455.18	136.39
26 27 16 00-0066 EA 24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	517.65	148.25
26 27 16 00-0067 EA 30" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	557.45	157.13
26 27 16 00-0068 EA 36" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure	605.34	163.06
26 27 16 00-0069 8" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0070 EA 8" x 8" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	154.08	50.40
26 27 16 00-0071 EA 12" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	208.43	65.23
26 27 16 00-0072 EA 16" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	265.04	83.02
26 27 16 00-0073 EA 16" x 16" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	329.32	103.77
26 27 16 00-0074 EA 18" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	315.55	100.80
26 27 16 00-0075 EA 18" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	390.73	124.53
26 27 16 00-0076 EA 24" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	437.45	142.32
26 27 16 00-0077 EA 24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	500.49	151.21
26 27 16 00-0078 EA 24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	570.62	163.06
26 27 16 00-0079 EA 30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	606.38	171.96
26 27 16 00-0080 EA 30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	635.68	177.89
26 27 16 00-0081 EA 36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure	650.15	177.89
26 27 16 00-0082 10" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0083 EA 18" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure	357.25	112.66
26 27 16 00-0084 EA 18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure	468.68	145.28
26 27 16 00-0085 EA 24" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure	477.96	154.17
26 27 16 00-0086 EA 24" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure	603.09	166.03
26 27 16 00-0087 EA 24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure	690.45	183.82
26 27 16 00-0088 EA 30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure	759.13	189.75
26 27 16 00-0089 EA 36" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure	807.93	198.65
26 27 16 00-0090 12" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)		
26 27 16 00-0091 EA 18" x 18" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure	517.27	160.10
26 27 16 00-0092 EA 24" x 12" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure	519.96	169.00



Electrical		26
Low-Voltage Electrical Distribution		26 20
Low-Voltage Distribution Equipment		26 27

26

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0093	EA	24" x 18" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	663.73	183.82
26 27 16 00-0094	EA	24" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	754.15	201.61
26 27 16 00-0095	EA	30" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	838.39	210.51
26 27 16 00-0096	EA	36" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	882.97	219.40
26 27 16 00-0097		NEMA 1 Enclosures For Up To 6 Boards, Lockable (26 27 16)		
26 27 16 00-0098		4.5" Depth, Hinged Cover, Powder Coated Steel, NEMA 1 Enclosures (26 27 16 00-0097)		
26 27 16 00-0099	EA	24" High x 18" Wide x 4.5" Deep, 18 Gauge, Powder Coated Steel, NEMA 1 Enclosure (RS2 Technologies NCL-12).....	1,238.70	130.46
26 27 16 00-0100		NEMA 12 Enclosures, Lockable (26 27 16) Note: Dust-tight enclosures.		
26 27 16 00-0101		Hinged Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0100)		
26 27 16 00-0102		4" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0101)		
26 27 16 00-0103	EA	4" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	121.95	23.72
26 27 16 00-0104	EA	6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	159.47	32.61
26 27 16 00-0105	EA	8" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	197.72	41.51
26 27 16 00-0106	EA	10" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	213.88	44.47
26 27 16 00-0107	EA	12" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	239.15	47.44
26 27 16 00-0108	EA	12" x 10" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	257.36	50.40
26 27 16 00-0109		6" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0101)		
26 27 16 00-0110	EA	6" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	176.80	35.57
26 27 16 00-0111	EA	8" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	194.53	38.54
26 27 16 00-0112		Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0100)		
26 27 16 00-0113		4" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0112)		
26 27 16 00-0114	EA	4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	235.10	23.72
26 27 16 00-0115	EA	6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	283.55	32.61
26 27 16 00-0116	EA	8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	320.17	35.57
26 27 16 00-0117	EA	8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	366.60	41.51
26 27 16 00-0118	EA	10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	377.72	44.47
26 27 16 00-0119	EA	10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	444.21	47.44
26 27 16 00-0120	EA	12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	476.77	50.40
26 27 16 00-0121	EA	12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	541.04	53.37
26 27 16 00-0122		6" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0112)		
26 27 16 00-0123	EA	6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	343.70	35.57
26 27 16 00-0124	EA	8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	387.91	38.54
26 27 16 00-0125	EA	8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	423.75	44.47
26 27 16 00-0126	EA	10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	501.47	53.37
26 27 16 00-0127	EA	12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	545.10	59.30
26 27 16 00-0128	EA	16" x 14" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	755.01	77.09
26 27 16 00-0129	EA	18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,169.67	118.59
26 27 16 00-0130	EA	24" x 16" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,525.09	136.39
26 27 16 00-0131	EA	24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,717.43	148.25
26 27 16 00-0132		8" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0112)		
26 27 16 00-0133	EA	24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,593.58	151.21
26 27 16 00-0134	EA	24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,832.36	163.06
26 27 16 00-0135	EA	30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	2,011.49	171.96
26 27 16 00-0136	EA	30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	2,213.41	177.89
26 27 16 00-0137	EA	36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	2,183.85	177.89
26 27 16 00-0138		Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0100)		
26 27 16 00-0139		8" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0138)		
26 27 16 00-0140	EA	60" x 48" x 8" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	6,840.41	240.90
26 27 16 00-0141		10" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0138)		
26 27 16 00-0142	EA	60" x 48" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	6,913.66	266.84
26 27 16 00-0143	EA	60" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	7,924.53	285.37
26 27 16 00-0144	EA	72" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	9,124.63	355.78
26 27 16 00-0145	EA	72" x 72" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	10,195.33	419.53

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0146 12" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0138)		
26 27 16 00-0147 EA 60" x 48" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	7,414.42	419.53
26 27 16 00-0148 EA 60" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	8,258.51	444.73
26 27 16 00-0149 EA 72" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	9,370.97	474.38
26 27 16 00-0150 EA 72" x 72" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure	10,326.39	474.38
26 27 16 00-0151 NEMA 3 Enclosures, Lockable (26 27 16)		
Note: Can be used underground or encased in concrete.		
26 27 16 00-0152 2" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0153 EA 4" x 4" x 2" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	338.62	103.77
26 27 16 00-0154 3" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0155 EA 4" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	359.36	103.77
26 27 16 00-0156 EA 5" x 5" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	445.28	107.47
26 27 16 00-0157 EA 6" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	459.39	107.47
26 27 16 00-0158 EA 6" x 6" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	563.96	111.18
26 27 16 00-0159 4" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0160 EA 4" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	441.47	107.47
26 27 16 00-0161 EA 5" x 5" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	478.37	107.47
26 27 16 00-0162 EA 6" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	498.19	111.18
26 27 16 00-0163 EA 6" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	611.54	111.18
26 27 16 00-0164 EA 8" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	670.26	118.59
26 27 16 00-0165 EA 8" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	720.57	126.01
26 27 16 00-0166 EA 10" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	747.54	126.01
26 27 16 00-0167 EA 10" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	877.84	129.71
26 27 16 00-0168 EA 12" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	948.31	133.42
26 27 16 00-0169 EA 12" x 12" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,279.39	148.25
26 27 16 00-0170 6" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0171 EA 6" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	644.49	114.89
26 27 16 00-0172 EA 8" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	803.91	129.71
26 27 16 00-0173 EA 8" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	931.74	133.42
26 27 16 00-0174 EA 10" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,064.65	137.13
26 27 16 00-0175 EA 10" x 10" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,128.24	137.13
26 27 16 00-0176 EA 12" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,279.05	148.25
26 27 16 00-0177 EA 12" x 12" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,476.92	166.77
26 27 16 00-0178 EA 16" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,392.90	159.36
26 27 16 00-0179 EA 18" x 12" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	2,700.80	296.49
26 27 16 00-0180 EA 18" x 18" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	4,601.05	370.61
26 27 16 00-0181 8" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0182 EA 8" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,140.20	140.83
26 27 16 00-0183 EA 12" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,700.20	185.30
26 27 16 00-0184 EA 12" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	1,726.17	185.30
26 27 16 00-0185 EA 16" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	2,353.25	277.95
26 27 16 00-0186 EA 18" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	3,061.56	296.49
26 27 16 00-0187 EA 24" x 24" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	7,641.86	518.85
26 27 16 00-0188 10" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0189 EA 18" x 12" x 10" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	4,068.78	370.61
26 27 16 00-0190 12" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0151)		
26 27 16 00-0191 EA 18" x 18" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	6,189.56	444.73
26 27 16 00-0192 EA 24" x 12" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure	5,113.08	407.67
26 27 16 00-0193 NEMA 3R Enclosures, Lockable (26 27 16)		
Note: Rain-tight enclosures.		
26 27 16 00-0194 Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0193)		
26 27 16 00-0195 4" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0196 EA 6" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	118.52	29.65
26 27 16 00-0197 EA 6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	130.83	32.61
26 27 16 00-0198 EA 8" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	190.36	35.57
26 27 16 00-0199 6" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0200 EA 8" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure	239.53	44.47



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
Low-Voltage Distribution Equipment		26 27	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0201 EA 10" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	267.85	50.40
26 27 16 00-0202 EA 12" x 10" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	313.55	56.33
26 27 16 00-0203 EA 12" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	338.56	59.30
26 27 16 00-0204 EA 16" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	440.76	77.09
26 27 16 00-0205 EA 16" x 16" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	527.76	94.87
26 27 16 00-0206 EA 18" x 18" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	605.47	118.59
26 27 16 00-0207 8" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0208 EA 24" x 20" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	912.10	151.21
26 27 16 00-0209 EA 24" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,010.37	163.06
26 27 16 00-0210 EA 30" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,134.38	171.96
26 27 16 00-0211 EA 30" x 30" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,192.36	177.89
26 27 16 00-0212 10" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0213 EA 12" x 48" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,130.02	183.82
26 27 16 00-0214 EA 12" x 54" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,276.48	207.55
26 27 16 00-0215 EA 12" x 60" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,413.28	229.78
26 27 16 00-0216 EA 12" x 66" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,556.77	253.50
26 27 16 00-0217 EA 12" x 72" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,695.05	275.73
26 27 16 00-0218 EA 18" x 18" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	742.28	145.28
26 27 16 00-0219 EA 24" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,130.02	183.82
26 27 16 00-0220 EA 30" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,330.80	189.75
26 27 16 00-0221 EA 36" x 36" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,676.21	207.55
26 27 16 00-0222 12" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)		
26 27 16 00-0223 EA 12" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,087.87	146.77
26 27 16 00-0224 EA 12" x 54" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,220.00	164.55
26 27 16 00-0225 EA 12" x 60" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,350.65	182.34
26 27 16 00-0226 EA 12" x 66" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,493.56	201.61
26 27 16 00-0227 EA 12" x 72" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,625.69	219.40
26 27 16 00-0228 EA 18" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	812.84	109.70
26 27 16 00-0229 EA 18" x 32" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,087.87	146.77
26 27 16 00-0230 EA 18" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,220.00	164.55
26 27 16 00-0231 EA 18" x 42" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,435.69	192.72
26 27 16 00-0232 EA 18" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,625.69	219.40
26 27 16 00-0233 EA 30" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,547.16	216.43
26 27 16 00-0234 EA 36" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,625.69	219.40
26 27 16 00-0235 EA 36" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,710.98	225.33
26 27 16 00-0236 EA 36" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,902.31	237.19
26 27 16 00-0237 EA 42" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	2,061.11	249.05
26 27 16 00-0238 Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0193)		
26 27 16 00-0239 4" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0240 EA 4" x 4" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	84.48	23.72
26 27 16 00-0241 EA 6" x 4" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	102.47	29.65
26 27 16 00-0242 EA 6" x 6" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	113.10	32.61
26 27 16 00-0243 EA 8" x 6" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	125.20	35.57
26 27 16 00-0244 EA 8" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	145.44	41.51
26 27 16 00-0245 EA 10" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	158.26	44.47
26 27 16 00-0246 EA 10" x 10" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	172.09	47.44
26 27 16 00-0247 EA 12" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	171.40	47.44
26 27 16 00-0248 EA 12" x 10" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	186.84	50.40
26 27 16 00-0249 EA 12" x 12" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	200.68	53.37
26 27 16 00-0250 EA 18" x 12" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	304.04	83.02
26 27 16 00-0251 EA 18" x 18" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	404.14	106.73
26 27 16 00-0252 6" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0253 EA 6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	118.32	35.57
26 27 16 00-0254 EA 8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	160.11	44.47
26 27 16 00-0255 EA 10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	181.39	50.40
26 27 16 00-0256 EA 10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	196.18	53.37
26 27 16 00-0257 EA 12" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	195.16	53.37
26 27 16 00-0258 EA 12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	210.78	56.33
26 27 16 00-0259 EA 12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	226.53	59.30
26 27 16 00-0260 EA 16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	295.54	77.09
26 27 16 00-0261 EA 18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	341.28	91.91
26 27 16 00-0262 EA 18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	454.05	118.59
26 27 16 00-0263 EA 24" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	475.21	127.49
26 27 16 00-0264 EA 24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	540.07	136.39
26 27 16 00-0265 EA 24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	606.56	148.25
26 27 16 00-0266 8" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0267 EA 12" x 12" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure.....	253.17	65.23

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0268 EA 18" x 12" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	368.76	100.80
26 27 16 00-0269 EA 18" x 18" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	502.12	130.46
26 27 16 00-0270 EA 24" x 18" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	597.69	151.21
26 27 16 00-0271 EA 24" x 24" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	673.61	163.06
26 27 16 00-0272 EA 30" x 24" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure	745.33	171.96
26 27 16 00-0273 10" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0274 EA 18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure	554.39	145.28
26 27 16 00-0275 EA 24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure	742.20	183.82
26 27 16 00-0276 EA 30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure	810.36	189.75
26 27 16 00-0277 12" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)		
26 27 16 00-0278 EA 24" x 24" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	819.45	201.61
26 27 16 00-0279 EA 30" x 30" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	1,121.18	219.40
26 27 16 00-0280 EA 36" x 30" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	1,158.28	225.33
26 27 16 00-0281 EA 36" x 36" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure	1,346.00	237.19
26 27 16 00-0282 NEMA 4 Enclosures, Lockable (26 27 16)		
Note: Water-tight enclosures.		
26 27 16 00-0283 Hinge Cover, Painted Steel NEMA 4 Enclosures (26 27 16 00-0282)		
26 27 16 00-0284 EA 4" x 4" x 3" Hinge Cover, Painted Steel NEMA 4 Enclosure	127.22	20.76
26 27 16 00-0285 EA 6" x 4" x 3" Hinge Cover, Painted Steel NEMA 4 Enclosure	148.95	25.21
26 27 16 00-0286 EA 8" x 6" x 3.5" Hinge Cover, Painted Steel NEMA 4 Enclosure	186.50	32.61
26 27 16 00-0287 EA 6" x 6" x 4" Hinge Cover, Painted Steel NEMA 4 Enclosure	177.94	32.61
26 27 16 00-0288 EA 10" x 8" x 4" Hinge Cover, Painted Steel NEMA 4 Enclosure	238.08	44.47
26 27 16 00-0289 EA 12" x 10" x 5" Hinge Cover, Painted Steel NEMA 4 Enclosure	295.99	53.37
26 27 16 00-0290 EA 10" x 8" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	273.77	50.40
26 27 16 00-0291 EA 12" x 12" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	319.33	59.30
26 27 16 00-0292 EA 14" x 12" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	375.26	68.19
26 27 16 00-0293 EA 16" x 14" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure	455.89	85.99
26 27 16 00-0294 Clamp Cover, Painted Steel NEMA 4 Enclosures (26 27 16 00-0282)		
26 27 16 00-0295 EA 4" x 4" x 3" Clamp Cover, Painted Steel NEMA 4 Enclosure	117.27	20.76
26 27 16 00-0296 EA 6" x 6" x 4" Clamp Cover, Painted Steel NEMA 4 Enclosure	168.02	32.61
26 27 16 00-0297 Screw Cover, Fiberglass NEMA 4 Or 4x Enclosures (26 27 16 00-0282)		
26 27 16 00-0298 EA 6" x 6" x 4", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	148.01	28.46
26 27 16 00-0299 EA 8" x 6" x 4", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	157.42	30.84
26 27 16 00-0300 EA 10" x 8" x 6", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	193.99	40.32
26 27 16 00-0301 EA 12" x 10" x 6", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure	226.18	44.47
26 27 16 00-0302 EA 14" x 12" x 8", Screw Cover, Fiberglass NEMA 4 Enclosure	291.90	56.33
26 27 16 00-0303 EA 16" x 14" x 8", Screw Cover, Fiberglass NEMA 4 Enclosure	341.39	66.71
26 27 16 00-0304 EA 18" x 16" x 10", Screw Cover, Fiberglass NEMA 4 Enclosure	484.79	106.73
26 27 16 00-0305 NEMA 4X Enclosures, Lockable (26 27 16)		
Note: Water-tight enclosures.		
26 27 16 00-0306 Clamp Cover, Aluminum NEMA 4X Enclosures (26 27 16 00-0305)		
26 27 16 00-0307 EA 6" x 4" x 3" Clamp Cover, Aluminum NEMA 4X Enclosure	247.93	23.72
26 27 16 00-0308 EA 6" x 6" x 4" Clamp Cover, Aluminum NEMA 4X Enclosure	293.70	32.61
26 27 16 00-0309 EA 10" x 8" x 4" Clamp Cover, Aluminum NEMA 4X Enclosure	373.21	44.47
26 27 16 00-0310 EA 12" x 10" x 5" Clamp Cover, Aluminum NEMA 4X Enclosure	452.89	53.37
26 27 16 00-0311 EA 14" x 12" x 6" Clamp Cover, Aluminum NEMA 4X Enclosure	559.07	68.19
26 27 16 00-0312 EA 16" x 14" x 6" Clamp Cover, Aluminum NEMA 4X Enclosure	661.84	85.99
26 27 16 00-0313 Clamp Cover, 304 Stainless Steel NEMA 4X Enclosures (26 27 16 00-0305)		
26 27 16 00-0314 EA 4" x 4" x 3", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	342.64	20.76
For 316 Stainless Steel, Add	46.52	
26 27 16 00-0315 EA 6" x 4" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	446.17	29.65
For 316 Stainless Steel, Add	59.53	
26 27 16 00-0316 EA 6" x 6" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	505.39	32.61
For 316 Stainless Steel, Add	67.82	
26 27 16 00-0317 EA 8" x 6" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	578.09	35.57
For 316 Stainless Steel, Add	78.26	
26 27 16 00-0318 EA 10" x 8" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	710.13	44.47
For 316 Stainless Steel, Add	95.83	
26 27 16 00-0319 EA 12" x 10" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	997.63	56.33
For 316 Stainless Steel, Add	137.09	
26 27 16 00-0320 EA 14" x 12" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	1,243.31	68.19
For 316 Stainless Steel, Add	171.65	
26 27 16 00-0321 EA 16" x 14" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure	1,499.60	85.99
For 316 Stainless Steel, Add	205.54	



Electrical		26
Low-Voltage Electrical Distribution		26 20
Low-Voltage Distribution Equipment		26 27

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0322 Screw Cover, Polycarbonate NEMA 4X Enclosures (26 27 16 00-0305)		
Note: NEMA 3R, 4, 4X and 12 rated.		
26 27 16 00-0323 EA 6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	161.08	32.61
26 27 16 00-0324 EA 8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	181.05	35.57
26 27 16 00-0325 EA 8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	207.39	41.51
26 27 16 00-0326 EA 10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	225.26	44.47
26 27 16 00-0327 EA 12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	259.97	50.40
26 27 16 00-0328 EA 10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	245.31	50.40
26 27 16 00-0329 EA 12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	285.19	56.33
26 27 16 00-0330 EA 14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	356.76	68.19
26 27 16 00-0331 EA 16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	457.44	93.39
26 27 16 00-0332 EA 18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	592.92	134.45
26 27 16 00-0333 EA 6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	172.60	32.61
26 27 16 00-0334 EA 8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	194.66	35.57
26 27 16 00-0335 EA 8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	222.04	41.51
26 27 16 00-0336 EA 10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	243.04	44.47
26 27 16 00-0337 EA 12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	278.80	50.40
26 27 16 00-0338 EA 10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	263.12	50.40
26 27 16 00-0339 EA 12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	309.33	56.33
26 27 16 00-0340 EA 14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	369.32	68.19
26 27 16 00-0341 EA 16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	483.61	93.39
26 27 16 00-0342 EA 18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	621.17	134.45
26 27 16 00-0343 Hinged Cover, Polycarbonate NEMA 4X Enclosures (26 27 16 00-0305)		
Note: NEMA 3R, 4, 4X and 12 rated.		
26 27 16 00-0344 EA 6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	193.53	32.61
26 27 16 00-0345 EA 8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	207.22	35.57
26 27 16 00-0346 EA 8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	235.63	41.51
26 27 16 00-0347 EA 10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	254.57	44.47
26 27 16 00-0348 EA 12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	300.79	50.40
26 27 16 00-0349 EA 10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	277.77	50.40
26 27 16 00-0350 EA 12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	339.67	56.33
26 27 16 00-0351 EA 14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	403.87	68.19
26 27 16 00-0352 EA 16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	498.26	93.39
26 27 16 00-0353 EA 18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover	646.28	134.45
26 27 16 00-0354 EA 6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	201.90	32.61
26 27 16 00-0355 EA 8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	222.91	35.57
26 27 16 00-0356 EA 8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	250.28	41.51
26 27 16 00-0357 EA 10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	270.25	44.47
26 27 16 00-0358 EA 12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	321.72	50.40
26 27 16 00-0359 EA 10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	295.55	50.40
26 27 16 00-0360 EA 12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	361.66	56.33
26 27 16 00-0361 EA 14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	414.33	68.19
26 27 16 00-0362 EA 16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	532.79	93.39
26 27 16 00-0363 EA 18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover	682.92	134.45
26 27 16 00-0364 NEMA 7/9 Enclosures, Lockable (26 27 16)		
Note: Nominal inside dimensions.		
26 27 16 00-0365 4" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0364)		
26 27 16 00-0366 EA 6" x 6" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	1,344.68	166.77
For Mounting Pan, Add	53.52	
26 27 16 00-0367 EA 6" x 8" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	1,095.53	177.89
For Mounting Pan, Add	99.73	
26 27 16 00-0368 EA 8" x 10" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	2,064.84	200.13
For Mounting Pan, Add	137.53	
26 27 16 00-0369 6" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0364)		
26 27 16 00-0370 EA 8" x 8" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	1,847.63	200.13
For Mounting Pan, Add	69.93	
26 27 16 00-0371 EA 8" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	2,379.01	205.69
For Mounting Pan, Add	137.53	
26 27 16 00-0372 EA 8" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	2,440.32	222.36
For Mounting Pan, Add	105.20	
26 27 16 00-0373 EA 10" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	2,501.37	222.36
For Mounting Pan, Add	123.08	
26 27 16 00-0374 EA 10" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	3,517.68	277.95
For Mounting Pan, Add	161.48	
26 27 16 00-0375 EA 12" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	3,310.12	250.16
For Mounting Pan, Add	100.82	
26 27 16 00-0376 EA 12" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	3,434.09	277.95
For Mounting Pan, Add	150.86	
26 27 16 00-0377 EA 12" x 24" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	5,341.54	500.32
For Mounting Pan, Add	202.97	
26 27 16 00-0378 EA 14" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure	4,208.08	333.55
For Mounting Pan, Add	197.62	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0379	EA	16" x 16" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	5,583.94 181.43	555.91
26 27 16 00-0380	EA	18" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	6,635.15 294.94	555.91
26 27 16 00-0381 8" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0364)				
26 27 16 00-0382	EA	8" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	2,843.48 105.20	250.16
26 27 16 00-0383	EA	10" x 10" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	2,862.45 123.08	250.16
26 27 16 00-0384	EA	10" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	3,223.81 161.48	250.16
26 27 16 00-0385	EA	12" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	3,572.56 100.82	277.95
26 27 16 00-0386	EA	12" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	5,243.66 150.86	500.32
26 27 16 00-0387	EA	12" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	6,382.24 202.97	611.51
26 27 16 00-0388	EA	12" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	9,899.49 305.24	722.69
26 27 16 00-0389	EA	14" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	5,778.72 197.62	611.51
26 27 16 00-0390	EA	16" x 16" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	5,927.43 181.43	611.51
26 27 16 00-0391	EA	16" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	8,703.90 271.95	667.10
26 27 16 00-0392	EA	18" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	7,220.59 294.94	611.51
26 27 16 00-0393	EA	18" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	9,567.00 431.29	667.10
26 27 16 00-0394	EA	18" x 30" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	9,503.87 574.97	667.10
26 27 16 00-0395	EA	18" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	14,678.88 718.61	889.46
26 27 16 00-0396	EA	24" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	11,195.74 668.18	722.69
26 27 16 00-0397	EA	24" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	20,181.07 914.73	1,111.83
26 27 16 00-0398 10" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0364)				
26 27 16 00-0399	EA	12" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	10,282.04 305.24	722.69
26 27 16 00-0400	EA	16" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	9,465.85 271.95	667.10
26 27 16 00-0401	EA	18" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	10,310.50 431.29	722.69
26 27 16 00-0402	EA	18" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	12,954.14 718.61	778.28
26 27 16 00-0403	EA	24" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	11,509.27 668.18	778.28
26 27 16 00-0404	EA	24" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	21,933.56 914.73	1,111.83
26 27 16 00-0405 12" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0364)				
26 27 16 00-0406	EA	12" x 24" x 12" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	6,518.68 202.97	611.51
26 27 16 00-0407 Breaker Enclosures (26 27 16)				
26 27 16 00-0408 15 To 100 Amperes, F-Frame Breaker Enclosures (26 27 16 00-0407)				
26 27 16 00-0409	EA	NEMA 1, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	443.43	118.59
26 27 16 00-0410	EA	NEMA 3R, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	782.79	118.59
26 27 16 00-0411	EA	NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	1,887.64	163.06
26 27 16 00-0412	EA	NEMA 7, Cast Aluminum, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	2,544.72	177.89
26 27 16 00-0413	EA	NEMA 9, Cast Aluminum, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	1,871.45	177.89
26 27 16 00-0414	EA	NEMA 12, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	691.70	163.06
26 27 16 00-0415 15 To 250 Amperes, H Or J-Frame Breaker Enclosures (26 27 16 00-0407)				
26 27 16 00-0416	EA	NEMA 1, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure.....	699.32	163.06
26 27 16 00-0417	EA	NEMA 3R, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure.....	1,242.76	163.06
26 27 16 00-0418	EA	NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure.....	4,130.60	207.55
26 27 16 00-0419	EA	NEMA 12, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure.....	1,050.14	207.55



		Electrical	26
		Low-Voltage Electrical Distribution	26 20
		Low-Voltage Distribution Equipment	26 27

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MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
26 27 16 00-0420	125 To 400 Amperes, L-Frame Breaker Enclosures (26 27 16 00-0407)				
26 27 16 00-0421	EA NEMA 1, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure.....	1,118.19		326.14	
26 27 16 00-0422	EA NEMA 3R, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure	2,458.31		326.14	
26 27 16 00-0423	EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure.....	7,020.60		415.08	
26 27 16 00-0424	EA NEMA 12, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure	1,815.38		415.08	
26 27 16 00-0425	300 To 800 Amperes, M-Frame Breaker Enclosures (26 27 16 00-0407)				
26 27 16 00-0426	EA NEMA 1, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure	2,184.84		622.63	
26 27 16 00-0427	EA NEMA 3R, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure	3,601.22		622.63	
26 27 16 00-0428	EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure.....	12,649.30		800.52	
26 27 16 00-0429	EA NEMA 12, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure	6,967.42		800.52	
26 27 16 00-0430	250 To 1,200 Amperes, P-Frame Breaker Enclosures (26 27 16 00-0407)				
26 27 16 00-0431	EA NEMA 1, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure	2,620.23		622.63	
26 27 16 00-0432	EA NEMA 3R, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure	4,289.77		622.63	
26 27 16 00-0433	EA NEMA 3R/5/12, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure	8,691.52		800.52	
26 27 23	Indoor Service Poles (26 27)				
26 27 23 00-0001	Communication And Power Poles (26 27 23)				
	Note: Includes separate compartments for power and communication cable. Includes removable cover plates with knock-outs for modular jacks and openings to accept modular furniture adapters for communication devices. Includes all necessary mounting plates and assemblies. Excludes electrical and communications wire, power outlets and communication devices. Wiremold Tele-Power Pole series.				
26 27 23 00-0002	Steel Communication And Power Poles (26 27 23 00-0001)				
26 27 23 00-0003	2-1/4" Width, Steel Communication And Power Poles (26 27 23 00-0002)				
26 27 23 00-0004	2-1/4" Width, Steel Communication And Power Poles (26 27 23 00-0003)				
26 27 23 00-0005	EA 2-1/4" x 2-5/16", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole	351.88		65.70	
26 27 23 00-0006	EA 2-1/4" x 2-5/16", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole	380.52		65.70	
26 27 23 00-0007	EA 2-1/4" x 2-5/16", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole	413.65		65.70	
26 27 23 00-0008	Additional Cover Plates For 2-1/4" Width, Steel Communication And Power Poles (26 27 23 00-0003)				
	Note: Excludes receptacles, communication jacks and wiring.				
26 27 23 00-0009	EA Add-On 2-1/4" Width Steel Cover Plate For Two Duplex Receptacles And One Single Receptacle	72.07		13.55	
26 27 23 00-0010	EA Add-On 2-1/4" Width Steel Cover Plate For Three Duplex Receptacles	63.03		13.55	
26 27 23 00-0011	EA Add-On 2-1/4" Width Steel Cover Plate For Two Duplex Receptacles And One GFCI Receptacle.....	70.82		13.55	
26 27 23 00-0012	EA Add-On 2-1/4" Width Steel Cover Plate For Data And A/V Modular Devices	53.54		13.55	
26 27 23 00-0013	EA Add-On 2-1/4" Width Steel Cover Plate Radius Control Entrance End Fitting	44.83		13.55	
26 27 23 00-0014	2-3/4" Width, Steel Communication And Power Poles (26 27 23 00-0002)				
26 27 23 00-0015	2-3/4" Width, Steel Communication And Power Poles (26 27 23 00-0014)				
26 27 23 00-0016	EA 2-3/4" x 1-17/32", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole	450.10		65.70	
26 27 23 00-0017	EA 2-3/4" x 1-17/32", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole	511.67		65.70	
26 27 23 00-0018	EA 2-3/4" x 1-17/32", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole	544.89		65.70	
26 27 23 00-0019	Additional Cover Plates For 2-3/4" Width, Steel Communication And Power Poles (26 27 23 00-0014)				
	Note: Excludes receptacles and communication jacks.				
26 27 23 00-0020	EA Add-On 2-3/4" Width Steel Cover Plate For One Single Receptacle	49.69		13.55	
26 27 23 00-0021	EA Add-On 2-3/4" Width Steel Cover Plate For One Duplex Receptacle	45.10		13.55	
26 27 23 00-0022	EA Add-On 2-3/4" Width Steel Cover Plate For Data And A/V Modular Devices	48.39		13.55	
26 27 23 00-0023	3" Width, Steel Communication And Power Poles (26 27 23 00-0002)				
26 27 23 00-0024	3" Width, Steel Communication And Power Poles (26 27 23 00-0023)				
26 27 23 00-0025	EA 3" x 2-3/4", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	580.56		65.70	
26 27 23 00-0026	EA 3" x 2-3/4", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	654.66		65.70	
26 27 23 00-0027	EA 3" x 2-3/4", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	703.51		65.70	
26 27 23 00-0028	Additional Cover Plates For 3" Width, Steel Communication And Power Poles (26 27 23 00-0023)				
	Note: Excludes receptacles and communication jacks.				
26 27 23 00-0029	EA Add-On 3" Width Steel Cover Plate For One Single Receptacle	49.69		13.55	
26 27 23 00-0030	EA Add-On 3" Width Steel Cover Plate For One Duplex Receptacle	45.10		13.55	
26 27 23 00-0031	EA Add-On 3" Width Steel Cover Plate For Data And A/V Modular Devices	48.39		13.55	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
26 27 23 00-0032		Aluminum Communication And Power Poles (26 27 23 00-0001)			
26 27 23 00-0033		2-1/8" Width, Aluminum Communication And Power Poles (26 27 23 00-0032)			
26 27 23 00-0034		2-1/8" Width, Aluminum Communication And Power Poles (26 27 23 00-0033)			
26 27 23 00-0035	EA	2-1/8" x 2-3/8", 10'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole	469.38	65.70	
26 27 23 00-0036	EA	2-1/8" x 2-3/8", 12'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole	521.19	65.70	
26 27 23 00-0037	EA	2-1/8" x 2-3/8", 15'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole	579.27	65.70	
26 27 23 00-0038		Additional Cover Plates For 2-1/8" Width, Aluminum Communication And Power Poles (26 27 23 00-0033)			
26 27 23 00-0039	EA	Add-On 2-1/8" Width Aluminum Cover Plate For Two Duplex Receptacles And One Single Receptacle	73.84	13.55	
26 27 23 00-0040	EA	Add-On 2-1/8" Width Aluminum Cover Plate For Three Duplex Receptacles	75.30	13.55	
26 27 23 00-0041	EA	Add-On 2-1/8" Width Aluminum Cover Plate For Two Duplex Receptacles And One GFCI Receptacle	80.17	13.55	
26 27 23 00-0042	EA	Add-On 2-1/8" Width Aluminum Cover Plate For Data And A/V Modular Devices	56.27	13.55	
26 27 23 00-0043	EA	Add-On 2-1/8" Width Aluminum Radius Control Entrance End Fitting	44.83	13.55	
26 27 23 00-0044		2-1/4" Width, Aluminum Communication And Power Poles (26 27 23 00-0032)			
26 27 23 00-0045	EA	2-1/4" x 2-5/16", 10'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole	453.20	65.70	
26 27 23 00-0046	EA	2-1/4" x 2-5/16", 12'-8" Height, Satin Anodized Finish, Aluminum Communication And Power Pole	506.34	65.70	
26 27 23 00-0047	EA	2-1/4" x 2-5/16", 15'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole	568.94	65.70	
26 27 23 00-0048		5" Width, Aluminum Communication And Power Poles (26 27 23 00-0032)			
26 27 23 00-0049	EA	5" x 4-3/4", 10'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole	926.49	65.70	
26 27 23 00-0050	EA	5" x 4-3/4", 12'-8" Height, Satin Anodized Finish, Aluminum Communication And Power Pole	1,056.81	65.70	
26 27 23 00-0051	EA	5" x 4-3/4", 15'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole	1,202.77	65.70	
26 27 23 00-0052		2" Diameter, Round Aluminum Communication And Power Pole (26 27 23 00-0032)			
26 27 23 00-0053	EA	2" Diameter, 10'-4" Height, Satin Anodized Finish, Aluminum Communication And Power Pole	512.59	65.70	
26 27 23 00-0054	EA	2" Diameter, 10'-4" Height, Painted White Finish, Aluminum Communication And Power Pole	486.33	65.70	
26 27 23 00-0055	EA	2" Diameter, 10'-4" Height, Polished Anodized Finish, Aluminum Communication And Power Pole	617.40	65.70	
26 27 26		Wiring Devices (26 27)			
Note: Includes device, installation, wire connections, support clips (where necessary) and testing. Assemblies include outlet device, cover plate, mounting and appropriate box.					
26 27 26 00-0001		Receptacles (26 27 26)			
26 27 26 00-0002		General Use Receptacles (26 27 26 00-0001)			
26 27 26 00-0003		Receptacle Assemblies (26 27 26 00-0002)			
Note: Includes 4" square steel box, bracket, mud ring, receptacle and cover plate.					
26 27 26 00-0004	EA	15 Amperes, 1 Gang, NEMA 5-15, Duplex Receptacle Assembly	122.42	52.63	
26 27 26 00-0005	EA	20 Amperes, 1 Gang, NEMA 5-20, Duplex Receptacle Assembly	130.85	56.33	
26 27 26 00-0006	EA	15 Amperes, 2 Gang, NEMA 5-15, Duplex Receptacle Assembly	156.59	67.45	
26 27 26 00-0007	EA	20 Amperes, 2 Gang, NEMA 5-20, Duplex Receptacle Assembly	173.45	74.87	
26 27 26 00-0008	EA	15 Amperes, 1 Gang, GFI, Duplex Receptacle Assembly	136.20	52.63	
26 27 26 00-0009	EA	20 Amperes, 1 Gang, GFI, Duplex Receptacle Assembly	145.35	56.33	
26 27 26 00-0010		Receptacle Components (26 27 26 00-0002)			
26 27 26 00-0011	EA	15 Amperes, 125 Volt, 1 Phase, NEMA 5-15, Single Receptacle	33.41	14.83	
26 27 26 00-0012	EA	15 Amperes, 125 Volt, 1 Phase, NEMA 5-15, Duplex Receptacle	32.60	14.83	
26 27 26 00-0013	EA	15 Amperes, 120/277 Volt, 3 Wire, Single Receptacle	37.34	14.83	
26 27 26 00-0014	EA	15 Amperes, 120/277 Volt, 3 Wire, Duplex Receptacle	40.08	14.83	
26 27 26 00-0015	EA	15 Amperes, 250 Volt, 1 Phase, NEMA 6-15, Single Receptacle	50.98	18.53	
26 27 26 00-0016	EA	15 Amperes, 250 Volt, 1 Phase, NEMA 6-15, Duplex Receptacle	59.98	18.53	
26 27 26 00-0017	EA	20 Amperes, 125 Volt, 1 Phase, NEMA 5-20, Single Receptacle	34.46	14.83	
26 27 26 00-0018	EA	20 Amperes, 125 Volt, 1 Phase, NEMA 5-20, Duplex Receptacle	33.62	14.83	
26 27 26 00-0019	EA	20 Amperes, 120/277 Volt, Single Receptacle	45.97	14.83	
26 27 26 00-0020	EA	20 Amperes, 120/277 Volt, Duplex Receptacle	39.22	14.83	
26 27 26 00-0021	EA	20 Amperes, 250 Volt, 1 Phase, NEMA 6-20, Single Receptacle	50.98	18.53	
26 27 26 00-0022	EA	20 Amperes, 250 Volt, 1 Phase, NEMA 6-20, Duplex Receptacle	59.98	18.53	
26 27 26 00-0023	EA	20 Amperes, 125/250 Volt, 1 Phase, NEMA 14-20, Single Receptacle	88.84	18.53	
26 27 26 00-0024	EA	20 Amperes, 250 Volt, 3 Phase, NEMA 15-20, Single Receptacle	88.84	18.53	
26 27 26 00-0025	EA	25 Amperes, 120/277 Volt, Duplex Receptacle	77.73	22.24	
26 27 26 00-0026		Specialty Receptacles (26 27 26 00-0001)			
26 27 26 00-0027		Specialty Receptacles (26 27 26 00-0026)			
26 27 26 00-0028	EA	30 Amperes, 125 Volt, 1 Phase, NEMA 5-30, Single Receptacle	72.30	25.95	
26 27 26 00-0029	EA	30 Amperes, 250 Volt, 1 Phase, NEMA 6-30, Single Receptacle	72.30	25.95	
26 27 26 00-0030	EA	30 Amperes, 125/250 Volt, NEMA 10-30, Single Receptacles	92.13	25.95	
26 27 26 00-0031	EA	30 Amperes, 125/250 Volt, 1 Phase, NEMA 14-30, Single Receptacle	103.66	25.95	
26 27 26 00-0032	EA	30 Amperes, 250 Volt, 3 Phase, NEMA 15-30, Single Receptacle	111.08	29.65	



Electrical		26	26
Low-Voltage Electrical Distribution		26 20	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0033 EA 50 Amperes, 125 Volt, 1 Phase, NEMA 5-50, Single Receptacle.....	103.60	29.65
26 27 26 00-0034 EA 50 Amperes, 250 Volt, 1 Phase, NEMA 6-50, Single Receptacle.....	101.49	29.65
26 27 26 00-0035 EA 50 Amperes, 277 Volt, NEMA 7-50, Single Receptacle.....	90.62	29.65
26 27 26 00-0036 EA 50 Amperes, 125/250 Volt, NEMA 10-50, Single Receptacle.....	110.84	29.65
26 27 26 00-0037 EA 50 Amperes, 125/250 Volt, 1 Phase, NEMA 14-50, Single Receptacle.....	122.59	29.65
26 27 26 00-0038 EA 50 Amperes, 250 Volt, 3 Phase, NEMA 15-50, Single Receptacle.....	130.00	33.35
26 27 26 00-0039 EA 60 Amperes, 125/250 Volt, 1 Phase, NEMA 14-60, Single Receptacle.....	143.16	37.06
26 27 26 00-0040 EA 60 Amperes, 250 Volt, 3 Phase, NEMA 15-60, Single Receptacle.....	157.98	44.47
26 27 26 00-0041 EA 100 Amperes, 480 Volt, 3 Phase, Joy Receptacle With Box, Complete.....	1,465.09	348.37
26 27 26 00-0042 EA 400 Amperes, 4 Pole Weatherproof Generator Receptacle With Box, Complete.....	3,397.55	426.20
26 27 26 00-0043 EA 30 Amperes, 230 Volt, Dryer Receptacle.....	85.71	29.65
26 27 26 00-0044 EA 60 Amperes, 230 Volt, Range Receptacle.....	125.93	44.47
26 27 26 00-0045 EA 15 Or 20 Amperes, 120/277 Volt, Clock Hanger Receptacle.....	76.37	18.53
26 27 26 00-0046 EA Cable Reel With 20 Amperes, 120 Volt Receptacle, Complete.....	1,575.40	451.46
26 27 26 00-0047 Isolated Ground Receptacles (26 27 26 00-0026)		
26 27 26 00-0048 EA 15 Amperes, 125 Volt, NEMA 5-15R Isolated Ground Receptacle, Simplex.....	96.97	14.83
Note: 2 Pole, 3 wire.		
26 27 26 00-0049 EA 20 Amperes, 120 Volt Isolated Ground Receptacles, Simplex.....	66.13	18.53
26 27 26 00-0050 EA 20 Amperes, 120 Volt Isolated Ground Receptacles, Duplex.....	65.92	18.53
26 27 26 00-0051 EA 30 Amperes, 120 Volt Isolated Ground Receptacles, Simplex.....	93.36	29.65
26 27 26 00-0052 EA Locking 15 Amperes, 250 Volt Isolated Ground Receptacles.....	73.06	18.53
26 27 26 00-0053 EA Locking 15 Amperes, 277 Volt Isolated Ground Receptacles.....	67.67	18.53
26 27 26 00-0054 EA Locking 20 Amperes, 120/208 Volt Isolated Ground Receptacles.....	91.94	22.24
26 27 26 00-0055 EA Locking 20 Amperes, 277/480 Volt Isolated Ground Receptacles.....	75.15	22.24
26 27 26 00-0056 EA Locking 20 Amperes, 347/600 Volt Isolated Ground Receptacles.....	93.93	22.24
26 27 26 00-0057 EA Locking 30 Amperes, 120/208 Volt Isolated Ground Receptacles.....	112.23	22.24
26 27 26 00-0058 EA Locking 30 Amperes, 277 Volt Isolated Ground Receptacles.....	114.15	29.65
26 27 26 00-0059 Explosion Proof Receptacles (26 27 26 00-0026)		
26 27 26 00-0060 EA 1/2", 20 Amperes, 2 Watt, 3 Pole, Type CPS Explosion Proof Receptacle Assembly.....	936.36	37.06
26 27 26 00-0061 EA 3/4", 20 Amperes, 2 Watt, 3 Pole, Type CPS Explosion Proof Receptacle Assembly.....	864.90	40.76
26 27 26 00-0062 EA 3/4", 30 Amperes, 2 Watt, 3 Pole, Type CES/CESD Explosion Proof Receptacle Assembly.....	1,440.03	74.12
26 27 26 00-0063 EA 3/4", 30 Amperes, 3 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly.....	1,807.69	74.12
26 27 26 00-0064 EA 1-1/4", 60 Amperes, 2 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly.....	2,293.05	111.18
26 27 26 00-0065 EA 1-1/4", 60 Amperes, 3 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly.....	2,186.61	111.18
26 27 26 00-0066 Ground Fault Circuit Interrupter (GFCI) (26 27 26 00-0026)		
26 27 26 00-0067 EA 15 Amperes, Ground Fault Circuit Interrupter (GFCI), Duplex Receptacle.....	42.68	18.53
26 27 26 00-0068 EA 20 Amperes, Ground Fault Circuit Interrupter (GFCI), Duplex Receptacle.....	62.95	22.24
26 27 26 00-0069 Arc Fault Circuit Interrupter (AFCI) (26 27 26 00-0026)		
26 27 26 00-0070 EA 15 Amperes, 125 Volt Duplex Arc Fault Circuit Interrupter (AFCI), Tamper Resistant Receptacle.....	72.72	18.53
26 27 26 00-0071 EA 20 Amperes, 125 Volt Duplex Arc Fault Circuit Interrupter (AFCI), Tamper Resistant Receptacle.....	79.39	18.53
26 27 26 00-0072 Locking Receptacle (26 27 26 00-0026)		
26 27 26 00-0073 EA NEMA L5-15, 125 Volt, 2 Pole, 15 Amperes, Locking Receptacle.....	62.34	18.53
26 27 26 00-0074 EA NEMA L6-15, 250 Volt, 2 Pole, 15 Amperes, Locking Receptacle.....	75.46	18.53
26 27 26 00-0075 EA NEMA L5-20, 125 Volt, 2 Pole, 20 Amperes, Locking Receptacle.....	69.60	22.24
26 27 26 00-0076 EA NEMA L6-20, 250 Volt, 2 Pole, 20 Amperes, Locking Receptacle.....	69.02	22.24
26 27 26 00-0077 EA NEMA L8-20, 480 Volt, 2 Pole, 20 Amperes, Locking Receptacle.....	80.56	22.24
26 27 26 00-0078 EA NEMA L9-20, 600 Volt, 2 Pole, 20 Amperes, Locking Receptacle.....	95.48	22.24
26 27 26 00-0079 EA NEMA L10-20, 125/250 Volt, 3 Pole, 20 Amperes, Locking Receptacle.....	93.82	22.24
26 27 26 00-0080 EA NEMA L14-20, 125/250 Volt, 3 Pole, 20 Amperes, Locking Receptacle.....	82.92	22.24
26 27 26 00-0081 EA NEMA L5-30, 125 Volt, 2 Pole, 30 Amperes, Locking Receptacle.....	95.78	29.65
26 27 26 00-0082 EA NEMA L6-30, 250 Volt, 2 Pole, 30 Amperes, Locking Receptacle.....	97.17	29.65
26 27 26 00-0083 EA NEMA L15-30, 250 Volt, 3 Pole, 30 Amperes, Locking Receptacle.....	121.56	29.65
26 27 26 00-0084 Weathertight Pin And Sleeve Receptacle (26 27 26 00-0026)		
26 27 26 00-0085 EA 20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R4W).....	305.77	74.12
26 27 26 00-0086 EA 20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R6W).....	305.12	74.12
26 27 26 00-0087 EA 20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R7W).....	317.41	74.12
26 27 26 00-0088 EA 20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R12W).....	384.32	81.54
26 27 26 00-0089 EA 20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R9W).....	385.35	81.54
26 27 26 00-0090 EA 20 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R7W).....	382.98	81.54
26 27 26 00-0091 EA 30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R4W).....	456.90	91.16
26 27 26 00-0092 EA 30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R6W).....	436.92	91.16
26 27 26 00-0093 EA 30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R7W).....	468.20	91.16
26 27 26 00-0094 EA 30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R12W).....	475.53	100.06
26 27 26 00-0095 EA 30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R9W).....	475.14	100.06
26 27 26 00-0096 EA 30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R7W).....	477.97	100.06
26 27 26 00-0097 EA 60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R4W).....	661.72	118.59
26 27 26 00-0098 EA 60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R6W).....	637.53	118.59
26 27 26 00-0099 EA 60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R7W).....	653.28	118.59

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0100 EA 60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R12W)	727.47	131.94
26 27 26 00-0101 EA 60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R9W)	727.94	131.94
26 27 26 00-0102 EA 60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R7W)	728.40	131.94
26 27 26 00-0103 EA 100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 3100R6W)	810.15	148.25
26 27 26 00-0104 EA 100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 3100R7W)	841.17	148.25
26 27 26 00-0105 EA 100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R12W)	906.15	163.06
26 27 26 00-0106 EA 100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R9W)	903.82	163.06
26 27 26 00-0107 EA 100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R7W)	908.20	163.06
26 27 26 00-0108 Corrosion Resistant Receptacle (26 27 26 00-0026)		
26 27 26 00-0109 EA 15/20 Amperes, 125 Volt Corrosion Resistant, Power Receptacles	77.67	14.83
26 27 26 00-0110 EA 15/20 Amperes, 250 Volt Corrosion Resistant, Power Receptacles	150.54	18.53
26 27 26 00-0111 Tamper Resistant Receptacle (26 27 26 00-0026)		
26 27 26 00-0112 EA 15 Amperes, 125 Volt Duplex Tamper Resistant Receptacle	35.28	14.83
Note: Pass & Seymour 3232-TR.		
26 27 26 00-0113 EA 20 Amperes, 125 Volt Duplex Tamper Resistant Receptacle	38.18	14.83
Note: Pass & Seymour TR20.		
26 27 26 00-0114 EA 15 Amperes, 125 Volt Single Specification Grade Tamper Resistant Receptacle	46.50	14.83
Note: Pass & Seymour TR5251.		
26 27 26 00-0115 EA 20 Amperes, 125 Volt Single Specification Grade Tamper Resistant Receptacle	50.40	14.83
Note: Pass & Seymour TR5351.		
26 27 26 00-0116 EA 15 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Tamper Resistant Receptacle	73.84	14.83
Note: Pass & Seymour S1595-TR*CC8.		
26 27 26 00-0117 EA 15 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Specification Grade Tamper Resistant Receptacle	79.43	14.83
Note: Pass & Seymour 1595-TRS.		
26 27 26 00-0118 EA 20 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Specification Grade Tamper Resistant Receptacle	84.76	14.83
Note: Pass & Seymour 2095-TRS.		
26 27 26 00-0119 USB Charger/Duplex Tamper-Resistant Receptacles (26 27 26 00-0026)		
26 27 26 00-0120 EA 15 Amperes, 125 Volt Duplex USB Charger/Duplex Tamper-Resistant Receptacle	75.88	14.83
26 27 26 00-0121 EA 20 Amperes, 125 Volt Duplex USB Charger/Duplex Tamper-Resistant Receptacle	81.66	14.83
26 27 26 00-0122 Switches (26 27 26)		
26 27 26 00-0123 Switches (26 27 26 00-0123)		
26 27 26 00-0124 Switch Assemblies (26 27 26 00-0123)		
Note: Includes 4" square steel box, bracket, mud ring, switch and cover plate.		
26 27 26 00-0125 EA 1 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly	125.37	51.88
26 27 26 00-0126 EA 1 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly	134.76	56.33
26 27 26 00-0127 EA 2 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly	166.19	67.82
26 27 26 00-0128 EA 2 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly	182.01	75.24
26 27 26 00-0129 EA 3 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly	286.04	116.37
26 27 26 00-0130 EA 3 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly	309.78	127.49
26 27 26 00-0131 EA 4 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly	326.71	131.57
26 27 26 00-0132 EA 4 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly	358.34	146.39
26 27 26 00-0133 Switch Components (26 27 26 00-0123)		
26 27 26 00-0134 EA 15 Amperes, 120/277 Volt, SPST Switch	37.03	14.83
26 27 26 00-0135 EA 15 Amperes, 120/277 Volt, 3-Way Switch	46.76	18.53
26 27 26 00-0136 EA 15 Amperes, 120/277 Volt, 4-Way Switch	87.45	29.65
26 27 26 00-0137 EA 15 Amperes, 120/277 Volt, DPST Switch	41.33	14.83
26 27 26 00-0138 EA 15 Amperes, 120/277 Volt, Thermal Switch	73.77	18.53
26 27 26 00-0139 EA 20 Amperes, 120/277 Volt, SPST Switch	44.94	18.53
26 27 26 00-0140 EA 20 Amperes, 120/277 Volt, 3-Way Switch	55.25	22.24
26 27 26 00-0141 EA 20 Amperes, 120/277 Volt, 4-Way Switch	113.00	29.65
26 27 26 00-0142 EA 20 Amperes, 120/277 Volt, DPST Switch	51.83	18.53
26 27 26 00-0143 EA 20 Amperes, 120/277 Volt, DPDT Switch	54.88	18.53
26 27 26 00-0144 EA 15 Amperes, 120/277 Volt, Single Pole, Toggle, Three Position, Center Off, Momentary Contact Switch	87.71	18.56
26 27 26 00-0145 EA 15 Amperes, 120/277 Volt, Key Operated, Single Pole, Three Position, Center Off, Momentary Contact Switch	109.77	18.56
26 27 26 00-0146 EA Momentary Contact Switch With Separate Neon Pilot	85.10	22.27
Note: Neon Pilot is 125 V, 1 / 125W.		
26 27 26 00-0147 EA 20 Amperes, 125 Volt AC, Single Pole, Maintained Contact Switch With Center Off	67.18	25.95
Note: Or 250 VAC 10 Amp, double throw BAT handle.		
26 27 26 00-0148 EA 20 Amperes, 125 Volt AC, Double Pole, Maintained Contact Switch	81.58	29.65
Note: Or 250 VAC 10 Amp, with center off double throw BAT handle.		
26 27 26 00-0149 EA 20 Amperes, 125 Volt AC, Three Pole, Maintained Contact Switch	113.06	29.65
Note: Or 250 VAC 10 Amp, with center off double throw BAT handle.		
26 27 26 00-0150 EA 30 Amperes, 120/277 Volt, Single Pole, Local Switch	89.92	29.69
26 27 26 00-0151 EA 30 Amperes, 120/277 Volt, Double Pole, Local Switch	109.75	29.69
26 27 26 00-0152 EA 30 Amperes, 120/277 Volt, Three-Way Local Switch	115.73	37.11
26 27 26 00-0153 EA 30 Amperes, 120/277 Volt, Four-Way Local Switch	159.83	40.82
26 27 26 00-0154 EA 15 Amperes, 120/277 Volt, Local Switch With Neon Pilot	81.14	24.27



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Low-Voltage Electrical Distribution		26 20	
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0155 EA 15 Amperes, 120/277 Volt, Local Switch With Separate Neon Pilot Note: Neon pilot is 125V, 1/25W. Requires 2 gang installation.	111.37	24.27
26 27 26 00-0156 EA 15 Amperes, 120 Volt, Clear Toggle, Lighted In On Position, Single Pole, Lighted Toggle Switch	98.34	24.27
26 27 26 00-0157 EA 15 Amperes, 120 Volt, Ivory Toggle, Lighted In Off Position, Lighted Toggle Switch	93.86	24.27
26 27 26 00-0158 EA 6 Amperes, 125 Volt, Door Open-Light On, Automatic Door Switch	99.16	12.03
26 27 26 00-0159 EA 6 Amperes, 125 Volt, Door Closed-Light On, Automatic Door Switch	105.24	12.03
26 27 26 00-0160 EA 15 Amperes, 120/277 Volt, Three Position, Center Off, Toggle, Single Pole Momentary Contact Switch	115.47	46.32
26 27 26 00-0161 EA Three Position, Center Off, Key Operated, Momentary Contact Switch	137.53	46.32
Note: 15A, 120/277 V, Single Pole		
26 27 26 00-0162 EA Single Pole, Slide Dimmer (Leviton IP710-LFZ)	159.85	14.85
26 27 26 00-0163 EA 8 Amperes, 120/277 Volt, 0 To 10 Volt Dimmer LED Control Switch, White (Lutron DVSTV-WH)	102.14	14.85
26 27 26 00-0164 EA 120/277 Volt, (8 Amperes Lighting/3 Amperes Fan), Wireless Dimming Switch (Lutron MRF2-8S-DV-WH)	266.03	14.83
26 27 26 00-0165 EA 120 Volt, Companion Wireless Dimmer Switch (Lutron MA-AS-WH)	58.11	14.83
26 27 26 00-0166 EA 1200VA 0-10V LED And Fluorescent, Sunrise Electronic Wall Dimmer (Philips SR1200ZTUNV)	108.85	14.85
26 27 26 00-0167 EA 1 Zone, 2 Button Wireless Scheduling Switch (LG 9SSA2B1T520.ALWB000)	124.88	14.85
26 27 26 00-0168 EA 2 Zone, 4 Button Wireless Scheduling Switch (LG 9SSA2B2T520.ALWB000)	159.87	14.85
26 27 26 00-0169 EA Wireless Single Rocker Remote Switch (Leviton WSS0S-S9)	163.97	14.85
26 27 26 00-0170 Specialty Switches (26 27 26 00-0122)		
26 27 26 00-0171 Dimmers With SPST Switch (26 27 26 00-0170)		
26 27 26 00-0172 EA 600 Watt Dimmers With SPST Switch	82.66	33.35
26 27 26 00-0173 EA 1,000 Watt Dimmers With SPST Switch	132.47	33.35
26 27 26 00-0174 EA 1,500 Watt Dimmers With SPST Switch	236.01	53.67
26 27 26 00-0175 EA 2,000 Watt Dimmers With SPST Switch	299.56	53.67
26 27 26 00-0176 EA 600 Watt Fluorescent Dimmer Switch	170.71	39.58
26 27 26 00-0177 EA 1,000 Watt Fluorescent Dimmer Switch	225.39	39.58
26 27 26 00-0178 EA 1,500 Watt Fluorescent Dimmer Switch	403.14	59.74
26 27 26 00-0179 EA Remote Speed Switch For Paddle Fan	133.92	49.37
26 27 26 00-0180 EA 600 Watt Combination Remote Speed Switch/Incandescent Dimmer	217.75	73.67
26 27 26 00-0181 Time Switches (26 27 26 00-0170)		
26 27 26 00-0182 EA 40 Amperes, 125 Volt, SPST, Standard Time Switch	146.47	44.47
26 27 26 00-0183 EA 40 Amperes, 277 Volt, SPST, Standard Time Switch	149.35	44.47
26 27 26 00-0184 EA 40 Amperes, 125 Volt, DPST, Standard Time Switch	146.47	44.47
26 27 26 00-0185 EA 40 Amperes, 277 Volt, DPST, Standard Time Switch	149.35	44.47
26 27 26 00-0186 EA 40 Amperes, 125 Volt, SPST, 7-Day Time Switch	165.65	44.47
26 27 26 00-0187 EA 40 Amperes, 277 Volt, SPST, 7-Day Time Switch	165.65	44.47
26 27 26 00-0188 EA 40 Amperes, 125 Volt, DPDT, 7-Day Time Switch	278.80	44.47
26 27 26 00-0189 EA 40 Amperes, 277 Volt, DPDT, 7-Day Time Switch	278.80	44.47
26 27 26 00-0190 EA 20 Amperes, 125 Volt, SPST, Programmable Time Switch	242.50	44.47
26 27 26 00-0191 EA 20 Amperes, 277 Volt, SPST, Programmable Time Switch	264.67	44.47
26 27 26 00-0192 EA 20 Amperes, 277 Volt, SPST, Weatherproof Programmable Time Switch	264.67	44.47
26 27 26 00-0193 EA 40 Amperes, 125 Volt, 4PST, Astro Dial Time Switch	317.06	44.47
26 27 26 00-0194 EA 40 Amperes, 277 Volt, 4PST, Astro Dial Time Switch	325.88	44.47
26 27 26 00-0195 EA 40 Amperes, 125 Volt, SPST, Weatherproof Standard Time Switch	146.47	44.47
26 27 26 00-0196 EA 40 Amperes, 277 Volt, SPST, Weatherproof Standard Time Switch	149.35	44.47
26 27 26 00-0197 EA 40 Amperes, 125 Volt, DPST, Weatherproof Standard Time Switch	146.47	44.47
26 27 26 00-0198 EA 40 Amperes, 277 Volt, DPST, Weatherproof Standard Time Switch	149.35	44.47
26 27 26 00-0199 EA 40 Amperes, 125 Volt, SPST, Weatherproof 7-Day Time Switch	165.65	44.47
26 27 26 00-0200 EA 40 Amperes, 277 Volt, SPST, Weatherproof 7-Day Time Switch	165.65	44.47
26 27 26 00-0201 EA 40 Amperes, 125 Volt, DPDT, Weatherproof 7-Day Time Switch	278.80	44.47
26 27 26 00-0202 EA 40 Amperes, 277 Volt, DPDT, Weatherproof 7-Day Time Switch	278.80	44.47
26 27 26 00-0203 EA 40 Amperes, 125 Volt, 4PST, Weatherproof Astro Dial Time Switch	317.06	44.47
26 27 26 00-0204 EA 40 Amperes, 277 Volt, 4PST, Weatherproof Astro Dial Time Switch	325.88	44.47
26 27 26 00-0205 Low Voltage Switching (26 27 26 00-0170)		
26 27 26 00-0206 EA 36 Pin Male Or Female Connector	215.66	14.83
26 27 26 00-0207 Other Switches (26 27 26 00-0170)		
26 27 26 00-0208 EA Pull Chain Switch 120/277 Volt AC Installed In Light Fixture	48.04	22.24
26 27 26 00-0209 EA SPST Locking Switch For Concealed Devices	143.29	59.30
26 27 26 00-0210 EA 3-Way Locking Switch For Concealed Devices	144.86	59.30
26 27 26 00-0211 EA Emergency Off Switch, With 1 Non-Closing Contact, Circular, Red, With Guard	154.73	55.44
26 27 26 00-0212 EA 15 Amperes Momentary Contact Switch	148.45	55.44
26 27 26 00-0213 EA 20 Amperes Momentary Contact Switch	155.07	55.44
26 27 26 00-0214 EA 2-1/4" Handy Box Cover Units Fuseholder Switch	152.04	66.80
26 27 26 00-0215 EA 2-3/4" Handy Box Cover Units Fuseholder Switch	153.88	66.80
26 27 26 00-0216 EA 4" Square Box Cover Units With 2 Fuseholders And 2 Switches	189.09	81.65
26 27 26 00-0217 EA 4" Square Box Cover Units With 1 Fuseholder And 1 Switch	171.96	74.22
26 27 26 00-0218 EA 4" Octagon Box Cover Units With 1 Fuseholder And 1 Switch	172.42	74.22
26 27 26 00-0219 Plates And Covers (26 27 26)		
26 27 26 00-0220 Wall Plates (26 27 26 00-0219)		

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0221 Nylon Wall Plates (26 27 26 00-0220)		
26 27 26 00-0222 EA 1 Gang Nylon Switch Wall Plates	2.20	0.74
26 27 26 00-0223 EA 2 Gang Nylon Switch Wall Plates	3.68	1.11
26 27 26 00-0224 EA 3 Gang Nylon Switch Wall Plates	5.19	1.48
26 27 26 00-0225 EA 4 Gang Nylon Switch Wall Plate	7.38	1.86
26 27 26 00-0226 EA 1 Gang Duplex Nylon Wall Plate	2.22	0.74
26 27 26 00-0227 EA 2 Gang Duplex Nylon Wall Plate	3.76	1.11
26 27 26 00-0228 Plastic Wall Plates (26 27 26 00-0220)		
26 27 26 00-0229 EA 1 Gang Plastic Switch Wall Plates	2.06	0.74
26 27 26 00-0230 EA 2 Gang Plastic Switch Wall Plates	3.39	1.11
26 27 26 00-0231 EA 3 Gang Plastic Switch Wall Plates	4.73	1.48
26 27 26 00-0232 EA 4 Gang Plastic Switch Wall Plates	7.38	1.86
26 27 26 00-0233 EA 1 Gang Duplex Plastic Wall Plate	2.06	0.74
26 27 26 00-0234 EA 2 Gang Duplex Plastic Wall Plate	3.40	1.11
26 27 26 00-0235 Brass Wall Plates (26 27 26 00-0220)		
26 27 26 00-0236 EA 1 Gang, 0.04" Brass Switch Wall Plates	20.29	3.34
26 27 26 00-0237 EA 2 Gang, 0.04" Brass Switch Wall Plates	37.25	3.86
26 27 26 00-0238 EA 3 Gang, 0.04" Brass Switch Wall Plates	54.07	4.30
26 27 26 00-0239 EA 4 Gang, 0.04" Brass Switch Wall Plates	83.48	4.67
26 27 26 00-0240 EA 5 Gang, 0.04" Brass Switch Wall Plates	101.44	4.98
26 27 26 00-0241 EA 6 Gang, 0.04" Brass Switch Wall Plates	117.24	5.20
26 27 26 00-0242 EA 1 Gang, 0.04" Brass Duplex Receptacle Wall Plate	20.29	3.34
26 27 26 00-0243 EA 2 Gang, 0.04" Brass Duplex Receptacle Wall Plate	43.44	3.86
26 27 26 00-0244 EA 3 Gang 0.04" Brass Duplex Receptacle Wall Plate	62.24	4.30
26 27 26 00-0245 Stainless Steel Wall Plates (26 27 26 00-0220)		
26 27 26 00-0246 EA 1 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	11.34	3.34
26 27 26 00-0247 EA 2 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	17.70	3.86
26 27 26 00-0248 EA 3 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	24.39	4.30
26 27 26 00-0249 EA 4 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	35.27	4.67
26 27 26 00-0250 EA 5 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	41.36	4.98
26 27 26 00-0251 EA 6 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates	49.77	5.20
26 27 26 00-0252 EA 1 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate	12.33	3.34
26 27 26 00-0253 EA 2 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate	20.02	3.86
26 27 26 00-0254 EA 3 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate	32.06	4.30
26 27 26 00-0255 EA 4 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate	38.60	4.67
26 27 26 00-0256 Chrome Wall Plates (26 27 26 00-0220)		
26 27 26 00-0257 EA 1 Gang, 0.040" Chrome Switch Wall Plate	39.55	3.34
26 27 26 00-0258 EA 2 Gang 0.040" Chrome Switch Wall Plate	73.32	3.86
26 27 26 00-0259 EA 3 Gang 0.040" Chrome Switch Wall Plate	107.06	4.30
26 27 26 00-0260 EA 1 Gang 0.040" Chrome Duplex Receptacle Wall Plate	39.52	3.34
26 27 26 00-0261 Weatherproof Covers (26 27 26 00-0219)		
26 27 26 00-0262 Stamped Metallic Weatherproof Covers (26 27 26 00-0261)		
Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0263 EA Blank Cover, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FBC)	11.39	0.74
26 27 26 00-0264 EA Duplex Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FAC)	12.31	0.74
26 27 26 00-0265 EA Single Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FRC)	12.31	0.74
26 27 26 00-0266 EA Toggle Switch, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FTC)	12.31	0.74
26 27 26 00-0267 EA Blank Cover, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FBC)	15.21	1.11
26 27 26 00-0268 EA Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FAC)	17.19	1.11
26 27 26 00-0269 EA Single Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FRC)	17.39	1.11
26 27 26 00-0270 EA Toggle Switch, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTC)	17.39	1.11
26 27 26 00-0271 EA Toggle Switch And Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTAC)	23.43	1.11
26 27 26 00-0272 EA Blank Cover, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FB)	22.42	1.48
26 27 26 00-0273 EA Toggle Switch, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FT)	24.44	1.48
26 27 26 00-0274 Cast Metallic Weatherproof Covers (26 27 26 00-0261)		
Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0275 EA Blank Cover, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSBC)	13.86	0.74
26 27 26 00-0276 EA Duplex Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLA)	43.40	0.74
26 27 26 00-0277 EA Single Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLR)	48.62	0.74
26 27 26 00-0278 EA Guarded Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSTG)	13.76	0.74
26 27 26 00-0279 EA Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLT)	36.85	0.74
26 27 26 00-0280 EA Lever Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSPT)	61.04	0.74
26 27 26 00-0281 EA Plunger Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FST)	77.61	0.74
26 27 26 00-0282 EA Blank Cover, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FSBC)	17.39	1.11
26 27 26 00-0283 EA Plunger Operated Toggle Switch, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FST)	122.57	1.11
26 27 26 00-0284 EA Blank Cover, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FSBC)	28.90	1.48
26 27 26 00-0285 EA Plunger Operated Toggle Switch, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FST)	117.32	1.48



	Electrical	26	
	Low-Voltage Electrical Distribution	26 20	26
	Low-Voltage Distribution Equipment	26 27	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0286 Die Cast Aluminum Weatherproof Covers (26 27 26 00-0261) Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0287 EA Duplex Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5027)	5.71	0.74
26 27 26 00-0288 EA Single Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5026)	7.25	0.74
26 27 26 00-0289 EA Duplex Receptacles, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5032)	9.78	1.11
26 27 26 00-0290 EA Toggle Switch, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5041)	10.58	1.11
26 27 26 00-0291 EA Toggle Switch And Duplex Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5042)	10.58	1.11
26 27 26 00-0292 EA Toggle Switch And Single Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5043)	11.74	1.11
26 27 26 00-0293 Heavy Duty Die Cast Aluminum Weatherproof Covers (26 27 26 00-0261) Note: Includes baked on lacquer finish and neoprene gasket.		
26 27 26 00-0294 EA Duplex Receptacle, Single Gang, Heavy Duty Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Pass & Seymour Legrand® 4510)	56.03	0.74
26 27 26 00-0295 Polycarbonate Weatherproof Covers (26 27 26 00-0261) Note: Includes neoprene gasket.		
26 27 26 00-0296 EA Toggle Switch, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730)	11.48	0.74
26 27 26 00-0297 EA Duplex Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730)	11.48	0.74
26 27 26 00-0298 EA Single Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730)	11.48	0.74
26 27 26 00-0299 EA Duplex Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775)	14.27	1.11
26 27 26 00-0300 EA Toggle Switch And Single Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775)	14.27	1.11
26 27 26 00-0301 High Impact Thermoplastic Weatherproof Covers (26 27 26 00-0261) Note: Includes neoprene gasket.		
26 27 26 00-0302 EA Duplex Receptacle, Single Gang, High Impact Thermoplastic Weatherproof Cover With Self Closing Lid (Hubbell® HBL522)	88.93	0.74
26 27 26 00-0303 Non Metallic (PVC) Weatherproof Covers (26 27 26 00-0261) Note: Includes neoprene gasket.		
26 27 26 00-0304 EA Blank Cover, Single Gang, Non Metallic (PVC) Weatherproof Cover	13.39	0.74
26 27 26 00-0305 EA Blank Cover, Two Gang, Non Metallic (PVC) Weatherproof Cover	14.48	1.11
26 27 26 00-0306 EA Toggle Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover	13.43	0.74
26 27 26 00-0307 EA Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover	29.30	0.74
26 27 26 00-0308 EA Duplex Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover	33.93	0.74
26 27 26 00-0309 EA 20 Amperes, Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover	27.55	0.74
26 27 26 00-0310 EA 30 Amperes, Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover	20.59	0.74
26 27 26 00-0311 EA 50 Amperes, Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover	24.05	0.74
26 27 26 00-0312 EA Plunger Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover	21.53	0.74
26 27 26 00-0313 EA Double Duplex Receptacle, Two Gang, Non Metallic (PVC) Weatherproof Cover	31.02	1.11
26 27 26 00-0314 Removal And Reinstallation Of Wiring Devices (26 27 26) Note: Includes storage and cleaning.		
26 27 26 00-0315 EA Removal And Reinstallation Of Receptacle, Switch, Outlet Or Special System Device	97.53	
26 27 26 00-0316 EA Removal And Reinstallation Of Receptacle Or Switch Outlet Cover Plate	12.35	
26 28 Low-Voltage Circuit Protective Devices (26 20)		
26 28 13 Fuses (26 28)		
26 28 13 00-0001 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuses (26 28 13)		
26 28 13 00-0002 EA 1 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	31.40	10.67
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.12	
26 28 13 00-0003 EA 2 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	30.79	10.67
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.12	
26 28 13 00-0004 EA 3 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	29.96	10.67
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.12	
26 28 13 00-0005 EA 5 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	29.84	10.67
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.12	
26 28 13 00-0006 EA 6 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	30.62	10.67
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.12	
26 28 13 00-0007 EA 8 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	29.10	10.67
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.12	
26 28 13 00-0008 EA 10 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	28.74	10.67
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.12	
26 28 13 00-0009 EA 15 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	25.78	10.67
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.12	
26 28 13 00-0010 EA 20 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	25.33	10.67
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.12	
26 28 13 00-0011 EA 25 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse	26.18	10.67
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.12	

26 Electrical**26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0012	EA	30 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.59 7.12	10.67
26 28 13 00-0013 Class RK1, Time Delay Fuses (26 28 13)				
26 28 13 00-0014 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuses (26 28 13 00-0013)				
26 28 13 00-0015	EA	1 Ampere, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.96 7.12	10.67
26 28 13 00-0016	EA	2 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.28 7.12	10.67
26 28 13 00-0017	EA	3 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.15 7.12	10.67
26 28 13 00-0018	EA	4 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	44.91 7.12	10.67
26 28 13 00-0019	EA	5 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.04 7.12	10.67
26 28 13 00-0020	EA	10 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	41.92 7.12	10.67
26 28 13 00-0021	EA	15 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.96 7.12	10.67
26 28 13 00-0022	EA	20 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.73 7.12	10.67
26 28 13 00-0023	EA	25 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.98 7.12	10.67
26 28 13 00-0024	EA	30 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.67 7.12	10.67
26 28 13 00-0025	EA	35 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.29 7.12	10.67
26 28 13 00-0026	EA	40 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.39 7.12	10.67
26 28 13 00-0027	EA	45 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.06 7.12	10.67
26 28 13 00-0028	EA	50 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.52 7.12	10.67
26 28 13 00-0029	EA	60 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.70 7.12	10.67
26 28 13 00-0030 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuses (26 28 13 00-0013)				
26 28 13 00-0031	EA	70 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	89.13 8.90	13.34
26 28 13 00-0032	EA	80 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	88.69 8.90	13.34
26 28 13 00-0033	EA	90 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	97.75 8.90	13.34
26 28 13 00-0034	EA	100 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	87.97 8.90	13.34
26 28 13 00-0035	EA	110 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	237.09 8.90	13.34
26 28 13 00-0036	EA	125 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	175.35 8.90	13.34
26 28 13 00-0037	EA	150 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	162.38 9.78	14.68
26 28 13 00-0038	EA	200 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	170.61 9.78	14.68
26 28 13 00-0039	EA	250 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	312.67 9.78	14.68
26 28 13 00-0040	EA	300 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	337.61 12.01	18.08
26 28 13 00-0041	EA	350 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	362.22 12.01	18.08
26 28 13 00-0042	EA	400 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	281.50 12.01	18.08
26 28 13 00-0043	EA	450 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	614.47 12.01	18.08
26 28 13 00-0044	EA	500 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	584.30 14.68	22.09
26 28 13 00-0045	EA	600 Amperes, 250 Volt AC, 200 kAmp I.R., BladeType, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	458.47 14.68	22.09
26 28 13 00-0046 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuses (26 28 13 00-0013)				
26 28 13 00-0047	EA	1 Ampere, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	68.03 7.12	10.67
26 28 13 00-0048	EA	2 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	63.76 7.12	10.67
26 28 13 00-0049	EA	3 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	60.19 7.12	10.67
26 28 13 00-0050	EA	4 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	61.36 7.12	10.67



Electrical			26
Low-Voltage Electrical Distribution			26 20
Low-Voltage Circuit Protective Devices			26 28

26

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT	COST	UNIT	COST
26 28 13 00-0051	EA 5 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		60.35 7.12		10.67
26 28 13 00-0052	EA 10 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		60.71 7.12		10.67
26 28 13 00-0053	EA 15 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		56.81 7.12		10.67
26 28 13 00-0054	EA 20 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		56.43 7.12		10.67
26 28 13 00-0055	EA 25 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		55.90 7.12		10.67
26 28 13 00-0056	EA 30 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		56.67 7.12		10.67
26 28 13 00-0057	EA 35 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		79.81 7.12		10.67
26 28 13 00-0058	EA 40 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		79.99 7.12		10.67
26 28 13 00-0059	EA 45 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		78.53 7.12		10.67
26 28 13 00-0060	EA 50 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		79.22 7.12		10.67
26 28 13 00-0061	EA 60 Amperes, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		79.83 7.12		10.67
26 28 13 00-0062	600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuses (26 28 13 00-0013)				
26 28 13 00-0063	EA 70 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		146.24 8.90		13.34
26 28 13 00-0064	EA 80 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		150.36 9.78		14.68
26 28 13 00-0065	EA 90 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		149.58 9.78		14.68
26 28 13 00-0066	EA 100 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		150.19 9.78		14.68
26 28 13 00-0067	EA 110 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		268.73 9.78		14.68
26 28 13 00-0068	EA 125 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		272.67 9.78		14.68
26 28 13 00-0069	EA 150 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		271.08 12.01		18.08
26 28 13 00-0070	EA 200 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		270.43 12.01		18.08
26 28 13 00-0071	EA 250 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		506.68 12.01		18.08
26 28 13 00-0072	EA 300 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		511.92 14.68		22.09
26 28 13 00-0073	EA 350 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		575.73 14.68		22.09
26 28 13 00-0074	EA 400 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		522.77 14.68		22.09
26 28 13 00-0075	EA 450 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		929.35 14.68		22.09
26 28 13 00-0076	EA 500 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		831.80 17.79		26.69
26 28 13 00-0077	EA 600 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		727.36 17.79		26.69

26 50 Lighting (26)

Note: Includes testing of fixture, a set of lamps (light bulbs), wire nuts, ground wire connector, fixture whip, ballast(s), mounting brackets where necessary and cable connectors. Lay-in fixtures include support wire, clips and seismic supports.

26 51 Interior Lighting (26 50)

See CSI section 26 01 50 52-0062 for additional emergency light ballast.

26 51 33 Interior Lighting Accessories (26 51)

26 51 33 00-0001 Lighting Accessories (26 51 33)

26 51 33 00-0002 Photocells (26 51 33 00-0001)

26 51 33 00-0003	EA Plug-In Photocell For Lighting Fixtures (Intermac® LC2000).....	107.90
26 51 33 00-0004	EA Wired Photocell For Lighting Fixtures (Intermac® K4021C).....	258.56

26 51 33 00-0005 Modular Flexible Wiring Systems (26 51 33 00-0001)

26 51 33 00-0006	EA 10' Length, 2-Circuit, Modular Power Cable (Day-Brite PC-12-2E-10)	105.15	8.00
26 51 33 00-0007	EA 15' Length, 2-Circuit, Modular Power Cable (Day-Brite PC-12-2E-15)	122.13	8.00
26 51 33 00-0008	EA 20' Length, 2-Circuit, Modular Power Cable (Day-Brite PC-12-2E-20)	146.94	8.00
26 51 33 00-0009	EA 15' Length, 2-Circuit, Modular Lighting Cable (Day-Brite LC-27-2E-15)	122.13	8.00
26 51 33 00-0010	EA 3 Out, 3-Circuit, Modular Lighting Interface (Day-Brite LI-27-3E)	106.78	8.00
26 51 33 00-0011	EA 13' Length, 2-Circuit, Modular Reddy-Connect Cable (Day-Brite RC-27-2D-13)	156.73	8.00
26 51 33 00-0012	EA 3" Length, 2-Circuit, Modular Lighting Adapter (Day-Brite LA-27-7M)	87.01	8.00
26 51 33 00-0013	EA 3" Length, 2-Circuit, Modular Lighting Tap (Day-Brite LT-27-2E)	98.05	8.00
26 51 33 00-0014	EA 7' Length, Single Level, Modular Lighting Switch Unit (Day-Brite LS-27-SL-07)	124.66	8.00

26 Electrical
26 50 Lighting
26 51 Interior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 33 00-0015 EA 7' Length, 1-Circuit Multi-Level, Modular Lighting Switch Unit (Day-Brite LS-27-ML-07)	124.66	8.00
26 51 33 00-0016 EA 7' Length, 2-Circuit Multi-Level, Modular Lighting Switch Unit (Day-Brite LS-27-2C-07)	126.74	8.00
26 51 33 00-0017 EA 7' Length, 1st 3-Way, Modular Lighting Switch Unit (Day-Brite LS-27-3A-07)	125.97	8.00
26 51 33 00-0018 EA 7' Length, 2nd 3-Way, Modular Lighting Switch Unit (Day-Brite LS-27-3B-07)	125.97	8.00
26 51 33 00-0019 EA 15' Length, Single Level, Modular Lighting Switch Unit (Day-Brite LS-27-SL-15)	144.57	8.00
26 51 33 00-0020 EA 3" Length, 2-Circuit, Modular Lighting Adapter (Day-Brite LA-27-4D)	67.22	8.00
26 51 33 00-0021 EA 3" Length, 1-Circuit, Modular Lighting Distribution Cable (Day-Brite LD-27-1E)	62.88	8.00
26 51 33 00-0022 EA 3" Length, 2-Circuit, Modular Lighting Distribution Cable (Day-Brite LD-27-2E)	64.39	8.00
26 51 33 00-0023 EA 3" Length, 1-Circuit, Modular Lighting Tap (Day-Brite LT-27-1E)	80.48	8.00
26 51 33 00-0024 EA 15' Length, 1-Circuit, Modular Lighting Tap (Day-Brite LT-27-1E-15)	105.15	8.00
26 51 33 00-0025 EA 15' Length, 1-Circuit, Modular Lighting Cable (Day-Brite LC-27-1E-15)	107.77	8.00
26 51 33 00-0026 EA Modular Lighting Junction Or Circuit Splitter (Day-Brite LJ-27-3E)	84.48	8.00
26 51 33 00-0027 EA 3" Length, 1-Circuit, Modular Power Distribution Cable (Day-Brite PD-12-1E)	62.88	8.00
26 51 33 00-0028 EA Removal And Reinstallation Of Modular Wiring Complete Including Storage And Cleaning	66.70	
26 51 33 00-0029 Removal And Reinstallation Of Light Fixtures (26 51 33)		
Note: Includes disconnection of wire, on-site storage, general cleaning, installation and electrical wire hook-up.		
26 51 33 00-0030 EA Removal And Reinstallation Of Lay-In Fluorescent Light Fixture	157.80	
26 51 33 00-0031 EA Removal And Reinstallation Of Surface Mounted Or Pendant Light Fixture	180.34	
26 55 Special Purpose Lighting (26 50)		
26 55 16 Walkway Lighting (26 55)		
26 55 16 00-0001 Incandescent Walkway (26 55 16)		
26 55 16 00-0002 EA Post Top 300 Watt Incandescent Walkway Fixture	449.10	137.87
26 55 16 00-0003 Metal Halide Walkway (26 55 16)		
26 55 16 00-0004 EA Post Top 100 Watt Metal Halide Walkway Fixture	692.43	216.73
26 55 16 00-0005 EA Post Top 150-175 Watt Metal Halide Walkway Fixture	730.72	224.59
26 55 16 00-0006 EA Post Top 250 Watt Metal Halide Walkway Fixture	783.22	233.19
26 55 16 00-0007 EA Post Top 400 Watt Metal Halide Walkway Fixture	840.06	252.02
26 55 16 00-0008 EA Round Luminaries 100 Watt Metal Halide Walkway Fixture	753.03	233.19
26 55 16 00-0009 EA Round Luminaries 150-175 Watt Metal Halide Walkway Fixture	750.51	216.73
26 55 16 00-0010 EA Round Luminaries 250 Watt Metal Halide Walkway Fixture	766.97	224.59
26 55 16 00-0011 EA Spherical 100 Watt Metal Halide Walkway Fixture	595.70	154.47
26 55 16 00-0012 EA Spherical 150-175 Watt Metal Halide Walkway Fixture	625.90	154.47
26 55 16 00-0013 EA Spherical 250 Watt Metal Halide Walkway Fixture	656.10	154.47
26 55 16 00-0014 EA Spherical 400 Watt Metal Halide Walkway Fixture	740.54	173.89
26 55 16 00-0015 EA Low Walkway 100 Watt Metal Halide Walkway Fixture	564.47	138.76
26 55 16 00-0016 High Pressure Sodium Walkway (26 55 16)		
26 55 16 00-0017 EA Post Top 100 Watt High Pressure Sodium Walkway Fixture	635.78	216.73
26 55 16 00-0018 EA Post Top 150-175 Watt High Pressure Sodium Walkway Fixture	669.14	224.59
26 55 16 00-0019 EA Post Top 250 Watt High Pressure Sodium Walkway Fixture	713.87	233.19
26 55 16 00-0020 EA Post Top 400 Watt High Pressure Sodium Walkway Fixture	766.60	252.02
26 55 16 00-0021 EA Round Luminaries 100 Watt High Pressure Sodium Walkway Fixture	690.28	233.19
26 55 16 00-0022 EA Round Luminaries 150-175 Watt High Pressure Sodium Walkway Fixture	681.16	216.73
26 55 16 00-0023 EA Round Luminaries 250 Watt High Pressure Sodium Walkway Fixture	697.46	224.59
26 55 16 00-0024 EA Spherical 100 Watt High Pressure Sodium Walkway Fixture	532.95	154.47
26 55 16 00-0025 EA Spherical 175 150-Watt High Pressure Sodium Walkway Fixture	556.54	154.47
26 55 16 00-0026 EA Spherical 250 Watt High Pressure Sodium Walkway Fixture	580.13	154.47
26 55 16 00-0027 EA Spherical 400 Watt High Pressure Sodium Walkway Fixture	654.67	173.89
26 55 16 00-0028 EA Low Walkway 100 Watt High Pressure Sodium Walkway Fixture	515.66	138.76
26 55 16 00-0029 Walkway, Adjustable (26 55 16)		
26 55 16 00-0030 EA 2' Fluorescent Adjustable Walkway Fixture	649.10	197.91
26 55 16 00-0031 EA 4' Fluorescent Adjustable Walkway Fixture	664.00	197.91
26 55 16 00-0032 EA 8' Fluorescent Adjustable Walkway Fixture	1,119.37	296.49
26 55 16 00-0033 EA 50 Watt Incandescent Adjustable Walkway Fixture	534.86	148.25
26 55 16 00-0034 EA 150 Watt Incandescent Adjustable Walkway Fixture	554.72	148.25
26 55 16 00-0035 LED Walkway (26 55 16)		
26 55 16 00-0036 LED Pathway Fixtures (CREE® BetaLED® Edge® PWY-EDG) (26 55 16 00-0035)		
Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 55 16 00-0037 EA 13" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG)	917.66	113.78
For Multi-Level Drive Currents, Add 230.60		
26 55 16 00-0038 EA 18" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG)	945.67	113.78
For Multi-Level Drive Currents, Add 230.60		
26 55 16 00-0039 EA 36" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG)	995.08	113.78
For Multi-Level Drive Currents, Add 230.60		
26 55 16 00-0040 EA 42" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG)	1,032.96	113.78
For Multi-Level Drive Currents, Add 230.60		



Electrical		26
Lighting		26 50
Special Purpose Lighting		26 55

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 16 00-0041	EA		96" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG) <i>For Multi-Level Drive Currents, Add</i>	1,194.22 230.60	146.28
26 55 16 00-0042			Wall Mounted Walkway Lighting (26 55 16 00-0035)		
26 55 16 00-0043	EA		Wall Mounted Lantern With LED Kit, No. PDEX-Bracket (Herwig P-492)..... <i>Note: Type Fixture 17 as Post</i>	4,368.77	
26 55 16 00-0044			Pole Mounted Walkway Lighting (26 55 16 00-0035)		
26 55 16 00-0045	EA		43-1/2" Height x 19" Diameter, LED Post Lantern (Herwig AP-27).....	4,035.66	
26 55 16 00-0046	EA		12" Tapered and Fluted Post (Herwig BRA Series, BRAJ-12) <i>Note: Washers and nuts included</i>	3,963.64	
26 56 Exterior Lighting (26 50)					
26 56 13 Lighting Poles and Standards (26 56)					
26 56 13 00-0001			Poles And Standards (26 56 13)		
26 56 13 00-0002			Roadway Light Poles (26 56 13 00-0001) <i>Note: Excludes lighting fixtures.</i>		
26 56 13 00-0003			Steel Roadway Light Poles (26 56 13 00-0002) <i>Note: Includes prime painted finish, anchor bolts, steel base with nut covers, reinforced handhole with cover and grounding provisions, and fixture arm(s).</i>		
26 56 13 00-0004			Round Tapered, Steel Roadway Light Poles (26 56 13 00-0003)		
26 56 13 00-0005			Round Tapered, Steel Roadway Light Poles With Upsweep Style Arms (26 56 13 00-0004)		
26 56 13 00-0006			Round Tapered, Steel Roadway Light Poles With Single Upsweep Style Arm (26 56 13 00-0005)		
26 56 13 00-0007	EA		20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,123.81 64.86 -78.10 -156.19 -258.33	480.91
26 56 13 00-0008	EA		20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,129.15 65.02 -78.23 -156.46 -258.73	480.91
26 56 13 00-0009	EA		25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,481.42 65.97 -87.04 -174.07 -293.17	641.21
26 56 13 00-0010	EA		25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,545.67 67.90 -88.64 -177.28 -297.99	641.21
26 56 13 00-0011	EA		25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,609.92 69.83 -90.25 -180.50 -302.80	641.21
26 56 13 00-0012	EA		30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,783.77 70.23 -94.59 -189.19 -319.85	721.36
26 56 13 00-0013	EA		30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,814.24 71.15 -95.36 -190.71 -322.14	721.36
26 56 13 00-0014	EA		30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,820.03 71.32 -95.50 -191.00 -322.57	721.36

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0015	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	4,008.35	761.43
		For Galvanized Finish, Add	74.56	
		For >10 To 20, Deduct	-100.21	
		For >20 To 40, Deduct	-200.42	
		For >40, Deduct	-338.70	
26 56 13 00-0016	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	4,031.36	761.43
		For Galvanized Finish, Add	75.25	
		For >10 To 20, Deduct	-100.78	
		For >20 To 40, Deduct	-201.57	
		For >40, Deduct	-340.42	
26 56 13 00-0017	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base	4,056.49	761.43
		For Galvanized Finish, Add	76.01	
		For >10 To 20, Deduct	-101.41	
		For >20 To 40, Deduct	-202.82	
		For >40, Deduct	-342.31	
26 56 13 00-0018	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	4,586.79	801.52
		For Galvanized Finish, Add	89.51	
		For >10 To 20, Deduct	-114.67	
		For >20 To 40, Deduct	-229.34	
		For >40, Deduct	-384.09	
26 56 13 00-0019	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	4,594.98	801.52
		For Galvanized Finish, Add	89.76	
		For >10 To 20, Deduct	-114.87	
		For >20 To 40, Deduct	-229.75	
		For >40, Deduct	-384.70	
26 56 13 00-0020	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base	4,603.08	801.52
		For Galvanized Finish, Add	90.00	
		For >10 To 20, Deduct	-115.08	
		For >20 To 40, Deduct	-230.15	
		For >40, Deduct	-385.31	

26 56 13 00-0021 Round Tapered, Steel Roadway Light Poles With Two Upsweep Style Arms
(26 56 13 00-0005)

26 56 13 00-0022	EA	20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	3,867.27	561.06
		For Galvanized Finish, Add	82.35	
		For >10 To 20, Deduct	-96.68	
		For >20 To 40, Deduct	-193.36	
		For >40, Deduct	-318.10	
26 56 13 00-0023	EA	20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	3,941.69	581.09
		For Galvanized Finish, Add	83.38	
		For >10 To 20, Deduct	-98.54	
		For >20 To 40, Deduct	-197.08	
		For >40, Deduct	-324.68	
26 56 13 00-0024	EA	20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	4,007.63	601.14
		For Galvanized Finish, Add	84.16	
		For >10 To 20, Deduct	-100.19	
		For >20 To 40, Deduct	-200.38	
		For >40, Deduct	-330.63	
26 56 13 00-0025	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	3,965.30	721.36
		For Galvanized Finish, Add	75.68	
		For >10 To 20, Deduct	-99.13	
		For >20 To 40, Deduct	-198.27	
		For >40, Deduct	-333.47	
26 56 13 00-0026	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base	4,018.99	741.40
		For Galvanized Finish, Add	76.09	
		For >10 To 20, Deduct	-100.47	
		For >20 To 40, Deduct	-200.95	
		For >40, Deduct	-338.49	
26 56 13 00-0027	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base	4,064.59	761.43
		For Galvanized Finish, Add	76.25	
		For >10 To 20, Deduct	-101.61	
		For >20 To 40, Deduct	-203.23	
		For >40, Deduct	-342.92	
26 56 13 00-0028	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base	4,293.87	801.52
		For Galvanized Finish, Add	80.73	
		For >10 To 20, Deduct	-107.35	
		For >20 To 40, Deduct	-214.69	
		For >40, Deduct	-362.12	



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0029	EA	30'	High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	4,342.23 80.97 -108.56 -217.11 -366.74	821.55
26 56 13 00-0030	EA	30'	High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	4,387.54 81.13 -109.69 -219.38 -371.14	841.59
26 56 13 00-0031	EA	35'	High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	4,550.30 86.01 -113.76 -227.52 -383.35	841.59
26 56 13 00-0032	EA	35'	High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	4,626.00 87.08 -115.65 -231.30 -390.03	861.62
26 56 13 00-0033	EA	35'	High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	4,699.87 88.10 -117.50 -234.99 -396.57	881.67
26 56 13 00-0034	EA	40'	High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	5,097.08 100.01 -127.43 -254.85 -426.36	881.67
26 56 13 00-0035	EA	40'	High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	5,142.50 100.17 -128.56 -257.13 -430.77	901.70
26 56 13 00-0036	EA	40'	High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	5,188.09 100.34 -129.70 -259.40 -435.19	921.74
26 56 13 00-0037			Round Tapered, Steel Roadway Light Poles With Three Upsweep Style Arms (26 56 13 00-0005)		
26 56 13 00-0038	EA	25'	High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	4,630.24 90.82 -115.76 -231.51 -387.34	801.52
26 56 13 00-0039	EA	25'	High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	4,715.81 90.98 -117.90 -235.79 -395.77	841.59
26 56 13 00-0040	EA	25'	High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	4,809.50 91.39 -120.24 -240.48 -404.80	881.67
26 56 13 00-0041	EA	30'	High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	4,926.23 94.89 -123.16 -246.31 -413.55	881.67
26 56 13 00-0042	EA	30'	High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	5,014.39 95.13 -125.36 -250.72 -422.17	921.74



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0043	EA		30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base	5,099.97	961.82
			For Galvanized Finish, Add	95.29	
			For >10 To 20, Deduct	-127.50	
			For >20 To 40, Deduct	-255.00	
			For >40, Deduct	-430.59	
26 56 13 00-0044	EA		35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	5,228.60	921.74
			For Galvanized Finish, Add	101.55	
			For >10 To 20, Deduct	-130.72	
			For >20 To 40, Deduct	-261.43	
			For >40, Deduct	-438.23	
26 56 13 00-0045	EA		35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	5,314.18	961.82
			For Galvanized Finish, Add	101.72	
			For >10 To 20, Deduct	-132.85	
			For >20 To 40, Deduct	-265.71	
			For >40, Deduct	-446.65	
26 56 13 00-0046	EA		35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base	5,399.76	1,001.89
			For Galvanized Finish, Add	101.88	
			For >10 To 20, Deduct	-134.99	
			For >20 To 40, Deduct	-269.99	
			For >40, Deduct	-455.08	
26 56 13 00-0047	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base	5,607.37	961.82
			For Galvanized Finish, Add	110.51	
			For >10 To 20, Deduct	-140.18	
			For >20 To 40, Deduct	-280.37	
			For >40, Deduct	-468.64	
26 56 13 00-0048	EA		40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base	5,692.68	1,001.89
			For Galvanized Finish, Add	110.67	
			For >10 To 20, Deduct	-142.32	
			For >20 To 40, Deduct	-284.63	
			For >40, Deduct	-477.05	
26 56 13 00-0049	EA		40' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base	5,783.70	1,041.96
			For Galvanized Finish, Add	110.99	
			For >10 To 20, Deduct	-144.59	
			For >20 To 40, Deduct	-289.19	
			For >40, Deduct	-485.88	

26 56 13 00-0050 Round Tapered, Steel Roadway Light Poles With Four Upsweep Style Arms (26 56 13 00-0005)

26 56 13 00-0051	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	5,143.20	881.67
			For Galvanized Finish, Add	101.40	
			For >10 To 20, Deduct	-128.58	
			For >20 To 40, Deduct	-257.16	
			For >40, Deduct	-429.82	
26 56 13 00-0052	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	5,271.53	941.77
			For Galvanized Finish, Add	101.64	
			For >10 To 20, Deduct	-131.79	
			For >20 To 40, Deduct	-263.58	
			For >40, Deduct	-442.45	
26 56 13 00-0053	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	5,397.09	1,001.89
			For Galvanized Finish, Add	101.80	
			For >10 To 20, Deduct	-134.93	
			For >20 To 40, Deduct	-269.85	
			For >40, Deduct	-454.88	
26 56 13 00-0054	EA		30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	5,472.42	961.82
			For Galvanized Finish, Add	106.46	
			For >10 To 20, Deduct	-136.81	
			For >20 To 40, Deduct	-273.62	
			For >40, Deduct	-458.52	
26 56 13 00-0055	EA		30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	5,598.35	1,021.93
			For Galvanized Finish, Add	106.64	
			For >10 To 20, Deduct	-139.96	
			For >20 To 40, Deduct	-279.92	
			For >40, Deduct	-470.97	
26 56 13 00-0056	EA		30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	5,693.00	1,082.04
			For Galvanized Finish, Add	105.87	
			For >10 To 20, Deduct	-142.33	
			For >20 To 40, Deduct	-284.65	
			For >40, Deduct	-481.08	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0057	EA		35' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	5,860.86	1,001.89
			For Galvanized Finish, Add	115.71	
			For >10 To 20, Deduct	-146.52	
			For >20 To 40, Deduct	-293.04	
			For >40, Deduct	-489.66	
26 56 13 00-0058	EA		35' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	6,023.43	1,062.01
			For Galvanized Finish, Add	116.98	
			For >10 To 20, Deduct	-150.59	
			For >20 To 40, Deduct	-301.17	
			For >40, Deduct	-504.86	
26 56 13 00-0059	EA		35' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	6,115.04	1,122.12
			For Galvanized Finish, Add	116.12	
			For >10 To 20, Deduct	-152.88	
			For >20 To 40, Deduct	-305.75	
			For >40, Deduct	-514.73	
26 56 13 00-0060	EA		40' High, 10.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base	6,117.40	1,041.96
			For Galvanized Finish, Add	121.00	
			For >10 To 20, Deduct	-152.94	
			For >20 To 40, Deduct	-305.87	
			For >40, Deduct	-510.90	
26 56 13 00-0061	EA		40' High, 10.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base	6,242.95	1,102.08
			For Galvanized Finish, Add	121.16	
			For >10 To 20, Deduct	-156.07	
			For >20 To 40, Deduct	-312.15	
			For >40, Deduct	-523.33	
26 56 13 00-0062	EA		40' High, 10.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	6,371.28	1,162.20
			For Galvanized Finish, Add	121.41	
			For >10 To 20, Deduct	-159.28	
			For >20 To 40, Deduct	-318.56	
			For >40, Deduct	-535.96	
26 56 13 00-0063			Round Tapered, Steel Roadway Light Poles With Davit Style Arm (26 56 13 00-0004)		
26 56 13 00-0064			Round Tapered, Steel Roadway Light Poles With Single Davit Style Arm (26 56 13 00-0063)		
26 56 13 00-0065	EA		25' High, 6.4" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base	3,680.25	641.21
			For Galvanized Finish, Add	71.93	
			For >10 To 20, Deduct	-92.01	
			For >20 To 40, Deduct	-184.01	
			For >40, Deduct	-308.08	
26 56 13 00-0066	EA		30' High, 7.1" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base	4,161.92	721.36
			For Galvanized Finish, Add	81.58	
			For >10 To 20, Deduct	-104.05	
			For >20 To 40, Deduct	-208.10	
			For >40, Deduct	-348.21	
26 56 13 00-0067	EA		35' High, 7.8" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base	4,286.81	761.43
			For Galvanized Finish, Add	82.92	
			For >10 To 20, Deduct	-107.17	
			For >20 To 40, Deduct	-214.34	
			For >40, Deduct	-359.58	
26 56 13 00-0068	EA		40' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base	5,053.32	801.52
			For Galvanized Finish, Add	103.51	
			For >10 To 20, Deduct	-126.33	
			For >20 To 40, Deduct	-252.67	
			For >40, Deduct	-419.07	
26 56 13 00-0069			Round Tapered, Steel Roadway Light Poles With Truss Style Arms (26 56 13 00-0004)		
26 56 13 00-0070			Round Tapered, Steel Roadway Light Poles With Single Truss Style Arm (26 56 13 00-0069)		
26 56 13 00-0071	EA		25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base	4,640.10	641.21
			For Galvanized Finish, Add	100.73	
			For >10 To 20, Deduct	-116.00	
			For >20 To 40, Deduct	-232.01	
			For >40, Deduct	-380.07	
26 56 13 00-0072	EA		25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base	4,681.25	641.21
			For Galvanized Finish, Add	101.96	
			For >10 To 20, Deduct	-117.03	
			For >20 To 40, Deduct	-234.06	
			For >40, Deduct	-383.15	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0073	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base		4,700.03	641.21
		For Galvanized Finish, Add		102.53	
		For >10 To 20, Deduct		-117.50	
		For >20 To 40, Deduct		-235.00	
		For >40, Deduct		-384.56	
26 56 13 00-0074	EA	30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base		4,841.56	721.36
		For Galvanized Finish, Add		101.96	
		For >10 To 20, Deduct		-121.04	
		For >20 To 40, Deduct		-242.08	
		For >40, Deduct		-399.19	
26 56 13 00-0075	EA	30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base		4,848.74	721.36
		For Galvanized Finish, Add		102.18	
		For >10 To 20, Deduct		-121.22	
		For >20 To 40, Deduct		-242.44	
		For >40, Deduct		-399.72	
26 56 13 00-0076	EA	30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base		4,922.94	721.36
		For Galvanized Finish, Add		104.41	
		For >10 To 20, Deduct		-123.07	
		For >20 To 40, Deduct		-246.15	
		For >40, Deduct		-405.29	
26 56 13 00-0077	EA	35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base		4,946.11	761.43
		For Galvanized Finish, Add		102.70	
		For >10 To 20, Deduct		-123.65	
		For >20 To 40, Deduct		-247.31	
		For >40, Deduct		-409.03	
26 56 13 00-0078	EA	35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base		4,989.56	761.43
		For Galvanized Finish, Add		104.00	
		For >10 To 20, Deduct		-124.74	
		For >20 To 40, Deduct		-249.48	
		For >40, Deduct		-412.29	
26 56 13 00-0079	EA	35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base		5,217.39	761.43
		For Galvanized Finish, Add		110.84	
		For >10 To 20, Deduct		-130.43	
		For >20 To 40, Deduct		-260.87	
		For >40, Deduct		-429.38	
26 56 13 00-0080 Round Tapered, Steel Roadway Light Poles With Two Truss Style Arms (26 56 13 00-0069)					
26 56 13 00-0081	EA	25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base		6,055.43	801.52
		For Galvanized Finish, Add		133.57	
		For >10 To 20, Deduct		-151.39	
		For >20 To 40, Deduct		-302.77	
		For >40, Deduct		-494.23	
26 56 13 00-0082	EA	25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base		6,174.96	841.59
		For Galvanized Finish, Add		134.75	
		For >10 To 20, Deduct		-154.37	
		For >20 To 40, Deduct		-308.75	
		For >40, Deduct		-505.20	
26 56 13 00-0083	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base		6,409.78	881.67
		For Galvanized Finish, Add		139.39	
		For >10 To 20, Deduct		-160.24	
		For >20 To 40, Deduct		-320.49	
		For >40, Deduct		-524.82	
26 56 13 00-0084	EA	30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base		6,192.90	881.67
		For Galvanized Finish, Add		132.89	
		For >10 To 20, Deduct		-154.82	
		For >20 To 40, Deduct		-309.65	
		For >40, Deduct		-508.55	
26 56 13 00-0085	EA	30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base		6,476.58	921.74
		For Galvanized Finish, Add		138.99	
		For >10 To 20, Deduct		-161.91	
		For >20 To 40, Deduct		-323.83	
		For >40, Deduct		-531.83	
26 56 13 00-0086	EA	30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base		6,656.88	961.82
		For Galvanized Finish, Add		142.00	
		For >10 To 20, Deduct		-166.42	
		For >20 To 40, Deduct		-332.84	
		For >40, Deduct		-547.36	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0087	EA		35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	6,386.73	921.74
			For Galvanized Finish, Add	136.30	
			For >10 To 20, Deduct	-159.67	
			For >20 To 40, Deduct	-319.34	
			For >40, Deduct	-525.09	
26 56 13 00-0088	EA		35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	6,757.22	961.82
			For Galvanized Finish, Add	145.01	
			For >10 To 20, Deduct	-168.93	
			For >20 To 40, Deduct	-337.86	
			For >40, Deduct	-554.88	
26 56 13 00-0089	EA		35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	6,986.50	1,001.89
			For Galvanized Finish, Add	149.48	
			For >10 To 20, Deduct	-174.66	
			For >20 To 40, Deduct	-349.33	
			For >40, Deduct	-574.08	
26 56 13 00-0090			Aluminum Roadway Light Poles (26 56 13 00-0092)		
			Note: Includes satin finish, anchor bolts, cast aluminum base with nut covers, reinforced handhole with cover and grounding provisions, and fixture arm(s).		
26 56 13 00-0091			Round Tapered, Aluminum Roadway Light Poles (26 56 13 00-0090)		
26 56 13 00-0092			Round Tapered, Aluminum Roadway Light Poles With Upsweep Style Arms (26 56 13 00-0091)		
26 56 13 00-0093			Round Tapered, Aluminum Roadway Light Poles With Single Upsweep Style Arm (26 56 13 00-0092)		
26 56 13 00-0094	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	2,452.72	480.91
			For >10 To 20, Deduct	-61.32	
			For >20 To 40, Deduct	-122.64	
			For >40, Deduct	-208.00	
26 56 13 00-0095	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	2,470.77	480.91
			For >10 To 20, Deduct	-61.77	
			For >20 To 40, Deduct	-123.54	
			For >40, Deduct	-209.35	
26 56 13 00-0096	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,045.74	641.21
			For >10 To 20, Deduct	-76.14	
			For >20 To 40, Deduct	-152.29	
			For >40, Deduct	-260.49	
26 56 13 00-0097	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	3,079.84	641.21
			For >10 To 20, Deduct	-77.00	
			For >20 To 40, Deduct	-153.99	
			For >40, Deduct	-263.05	
26 56 13 00-0098	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	3,111.20	641.21
			For >10 To 20, Deduct	-77.78	
			For >20 To 40, Deduct	-155.56	
			For >40, Deduct	-265.40	
26 56 13 00-0099	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,485.06	721.36
			For >10 To 20, Deduct	-87.13	
			For >20 To 40, Deduct	-174.25	
			For >40, Deduct	-297.45	
26 56 13 00-0100	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	3,513.83	721.36
			For >10 To 20, Deduct	-87.85	
			For >20 To 40, Deduct	-175.69	
			For >40, Deduct	-299.61	
26 56 13 00-0101	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	3,546.01	721.36
			For >10 To 20, Deduct	-88.65	
			For >20 To 40, Deduct	-177.30	
			For >40, Deduct	-302.02	
26 56 13 00-0102	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	4,020.41	761.43
			For >10 To 20, Deduct	-100.51	
			For >20 To 40, Deduct	-201.02	
			For >40, Deduct	-339.60	
26 56 13 00-0103	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	4,049.11	761.43
			For >10 To 20, Deduct	-101.23	
			For >20 To 40, Deduct	-202.46	
			For >40, Deduct	-341.76	
26 56 13 00-0104	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	4,073.15	761.43
			For >10 To 20, Deduct	-101.83	
			For >20 To 40, Deduct	-203.66	
			For >40, Deduct	-343.56	



MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0105 Round Tapered, Aluminum Roadway Light Poles With Two Upsweep Style Arms					
<i>(26 56 13 00-0092)</i>					
26 56 13 00-0106	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base		2,817.91	561.06
		For >10 To 20, Deduct		-70.45	
		For >20 To 40, Deduct		-140.90	
		For >40, Deduct		-239.40	
26 56 13 00-0107	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base		2,994.77	561.06
		For >10 To 20, Deduct		-74.87	
		For >20 To 40, Deduct		-149.74	
		For >40, Deduct		-252.66	
26 56 13 00-0108	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base		3,109.39	601.14
		For >10 To 20, Deduct		-77.73	
		For >20 To 40, Deduct		-155.47	
		For >40, Deduct		-263.26	
26 56 13 00-0109	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base		3,401.25	721.36
		For >10 To 20, Deduct		-85.03	
		For >20 To 40, Deduct		-170.06	
		For >40, Deduct		-291.16	
26 56 13 00-0110	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base		3,553.90	741.40
		For >10 To 20, Deduct		-88.85	
		For >20 To 40, Deduct		-177.70	
		For >40, Deduct		-303.61	
26 56 13 00-0111	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base		3,767.44	761.43
		For >10 To 20, Deduct		-94.19	
		For >20 To 40, Deduct		-188.37	
		For >40, Deduct		-320.63	
26 56 13 00-0112	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base		3,902.55	801.52
		For >10 To 20, Deduct		-97.56	
		For >20 To 40, Deduct		-195.13	
		For >40, Deduct		-332.77	
26 56 13 00-0113	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base		4,047.06	821.55
		For >10 To 20, Deduct		-101.18	
		For >20 To 40, Deduct		-202.35	
		For >40, Deduct		-344.61	
26 56 13 00-0114	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base		4,220.12	841.59
		For >10 To 20, Deduct		-105.50	
		For >20 To 40, Deduct		-211.01	
		For >40, Deduct		-358.59	
26 56 13 00-0115	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base		4,376.57	841.59
		For >10 To 20, Deduct		-109.41	
		For >20 To 40, Deduct		-218.83	
		For >40, Deduct		-370.32	
26 56 13 00-0116	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base		4,742.25	861.62
		For >10 To 20, Deduct		-118.56	
		For >20 To 40, Deduct		-237.11	
		For >40, Deduct		-398.75	
26 56 13 00-0117	EA	35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base		5,165.12	881.67
		For >10 To 20, Deduct		-129.13	
		For >20 To 40, Deduct		-258.26	
		For >40, Deduct		-431.47	
26 56 13 00-0118 Round Tapered, Aluminum Roadway Light Poles With Three Upsweep Style Arms					
<i>(26 56 13 00-0092)</i>					
26 56 13 00-0119	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base		3,262.91	641.21
		For >10 To 20, Deduct		-81.57	
		For >20 To 40, Deduct		-163.15	
		For >40, Deduct		-276.78	
26 56 13 00-0120	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base		3,486.12	681.28
		For >10 To 20, Deduct		-87.15	
		For >20 To 40, Deduct		-174.31	
		For >40, Deduct		-295.52	
26 56 13 00-0121	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base		3,983.99	801.52
		For >10 To 20, Deduct		-99.60	
		For >20 To 40, Deduct		-199.20	
		For >40, Deduct		-338.88	



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0122	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	4,158.73	841.59
			For >10 To 20, Deduct	-103.97	
			For >20 To 40, Deduct	-207.94	
			For >40, Deduct	-353.98	
26 56 13 00-0123	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	4,355.54	881.67
			For >10 To 20, Deduct	-108.89	
			For >20 To 40, Deduct	-217.78	
			For >40, Deduct	-370.75	
26 56 13 00-0124	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	4,517.13	921.74
			For >10 To 20, Deduct	-112.93	
			For >20 To 40, Deduct	-225.86	
			For >40, Deduct	-384.87	
26 56 13 00-0125	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	4,686.51	921.74
			For >10 To 20, Deduct	-117.16	
			For >20 To 40, Deduct	-234.33	
			For >40, Deduct	-397.58	
26 56 13 00-0126	EA		35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	5,067.27	961.82
			For >10 To 20, Deduct	-126.68	
			For >20 To 40, Deduct	-253.36	
			For >40, Deduct	-428.14	
26 56 13 00-0127	EA		35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	11,340.16	1,001.89
			For >10 To 20, Deduct	-283.50	
			For >20 To 40, Deduct	-567.01	
			For >40, Deduct	-900.61	
26 56 13 00-0128 Round Tapered, Aluminum Roadway Light Poles With Four Upsweep Style Arms (26 56 13 00-0092)					
26 56 13 00-0129	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	3,422.78	721.36
			For >10 To 20, Deduct	-85.57	
			For >20 To 40, Deduct	-171.14	
			For >40, Deduct	-292.78	
26 56 13 00-0130	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	3,531.07	721.36
			For >10 To 20, Deduct	-88.28	
			For >20 To 40, Deduct	-176.55	
			For >40, Deduct	-300.90	
26 56 13 00-0131	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	4,362.27	881.67
			For >10 To 20, Deduct	-109.06	
			For >20 To 40, Deduct	-218.11	
			For >40, Deduct	-371.25	
26 56 13 00-0132	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	4,713.35	941.77
			For >10 To 20, Deduct	-117.83	
			For >20 To 40, Deduct	-235.67	
			For >40, Deduct	-400.59	
26 56 13 00-0133	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	4,900.92	961.82
			For >10 To 20, Deduct	-122.52	
			For >20 To 40, Deduct	-245.05	
			For >40, Deduct	-415.66	
26 56 13 00-0134	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	5,228.02	1,021.93
			For >10 To 20, Deduct	-130.70	
			For >20 To 40, Deduct	-261.40	
			For >40, Deduct	-443.20	
26 56 13 00-0135	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	5,152.75	1,001.89
			For >10 To 20, Deduct	-128.82	
			For >20 To 40, Deduct	-257.64	
			For >40, Deduct	-436.55	
26 56 13 00-0136	EA		35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	5,803.10	1,062.01
			For >10 To 20, Deduct	-145.08	
			For >20 To 40, Deduct	-290.16	
			For >40, Deduct	-488.33	
26 56 13 00-0137	EA		35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base.....	6,383.27	1,122.12
			For >10 To 20, Deduct	-159.58	
			For >20 To 40, Deduct	-319.16	
			For >40, Deduct	-534.85	
26 56 13 00-0138 Round Tapered, Aluminum Roadway Light Poles With Truss Style Arms (26 56 13 00-0091)					
26 56 13 00-0139 Round Tapered, Aluminum Roadway Light Poles With Single Truss Style Arm (26 56 13 00-0138)					



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0140	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base.....	3,546.80	641.21
			For >10 To 20, Deduct	-88.67	
			For >20 To 40, Deduct	-177.34	
			For >40, Deduct	-298.07	
26 56 13 00-0141	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	3,570.92	641.21
			For >10 To 20, Deduct	-89.27	
			For >20 To 40, Deduct	-178.55	
			For >40, Deduct	-299.88	
26 56 13 00-0142	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	3,632.53	641.21
			For >10 To 20, Deduct	-90.81	
			For >20 To 40, Deduct	-181.63	
			For >40, Deduct	-304.50	
26 56 13 00-0143	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	3,724.99	641.21
			For >10 To 20, Deduct	-93.12	
			For >20 To 40, Deduct	-186.25	
			For >40, Deduct	-311.43	
26 56 13 00-0144	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base.....	3,993.00	721.36
			For >10 To 20, Deduct	-99.83	
			For >20 To 40, Deduct	-199.65	
			For >40, Deduct	-335.54	
26 56 13 00-0145	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	4,047.37	721.36
			For >10 To 20, Deduct	-101.18	
			For >20 To 40, Deduct	-202.37	
			For >40, Deduct	-339.62	
26 56 13 00-0146	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	4,105.36	721.36
			For >10 To 20, Deduct	-102.63	
			For >20 To 40, Deduct	-205.27	
			For >40, Deduct	-343.97	
26 56 13 00-0147	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	4,455.15	721.36
			For >10 To 20, Deduct	-111.38	
			For >20 To 40, Deduct	-222.76	
			For >40, Deduct	-370.20	
26 56 13 00-0148	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base.....	4,321.90	761.43
			For >10 To 20, Deduct	-108.05	
			For >20 To 40, Deduct	-216.10	
			For >40, Deduct	-362.21	
26 56 13 00-0149	EA		35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	4,770.74	761.43
			For >10 To 20, Deduct	-119.27	
			For >20 To 40, Deduct	-238.54	
			For >40, Deduct	-395.88	
26 56 13 00-0150	EA		35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	4,814.46	761.43
			For >10 To 20, Deduct	-120.36	
			For >20 To 40, Deduct	-240.72	
			For >40, Deduct	-399.16	
26 56 13 00-0151	EA		35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	5,091.98	761.43
			For >10 To 20, Deduct	-127.30	
			For >20 To 40, Deduct	-254.60	
			For >40, Deduct	-419.97	
26 56 13 00-0152	EA		35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	5,345.10	761.43
			For >10 To 20, Deduct	-133.63	
			For >20 To 40, Deduct	-267.26	
			For >40, Deduct	-438.95	
26 56 13 00-0153			Round Tapered, Aluminum Roadway Light Poles With Two Truss Style Arms (26 56 13 00-0138)		
26 56 13 00-0154	EA		25' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	4,580.32	801.52
			For >10 To 20, Deduct	-114.51	
			For >20 To 40, Deduct	-229.02	
			For >40, Deduct	-383.60	
26 56 13 00-0155	EA		25' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	4,722.07	841.59
			For >10 To 20, Deduct	-118.05	
			For >20 To 40, Deduct	-236.10	
			For >40, Deduct	-396.23	
26 56 13 00-0156	EA		25' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	4,841.88	881.67
			For >10 To 20, Deduct	-121.05	
			For >20 To 40, Deduct	-242.09	
			For >40, Deduct	-407.22	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0157	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	4,947.50	881.67
			For >10 To 20, Deduct	-123.69	
			For >20 To 40, Deduct	-247.38	
			For >40, Deduct	-415.15	
26 56 13 00-0158	EA		30' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	5,348.82	921.74
			For >10 To 20, Deduct	-133.72	
			For >20 To 40, Deduct	-267.44	
			For >40, Deduct	-447.25	
26 56 13 00-0159	EA		30' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	6,062.66	961.82
			For >10 To 20, Deduct	-151.57	
			For >20 To 40, Deduct	-303.13	
			For >40, Deduct	-502.79	
26 56 13 00-0160	EA		35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	5,857.06	921.74
			For >10 To 20, Deduct	-146.43	
			For >20 To 40, Deduct	-292.85	
			For >40, Deduct	-485.37	
26 56 13 00-0161	EA		35' High, 10" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	5,988.84	961.82
			For >10 To 20, Deduct	-149.72	
			For >20 To 40, Deduct	-299.44	
			For >40, Deduct	-497.25	
26 56 13 00-0162	EA		35' High, 10" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	7,152.62	1,001.89
			For >10 To 20, Deduct	-178.82	
			For >20 To 40, Deduct	-357.63	
			For >40, Deduct	-586.54	
26 56 13 00-0163			Round Tapered, Aluminum Roadway Light Poles With Davit Style Arm (26 56 13 00-0091)		
26 56 13 00-0164			Round Tapered, Aluminum Roadway Light Poles With Single Davit Style Arm (26 56 13 00-0163)		
26 56 13 00-0165	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base.....	2,874.19	480.91
			For >10 To 20, Deduct	-71.85	
			For >20 To 40, Deduct	-143.71	
			For >40, Deduct	-239.61	
26 56 13 00-0166	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base.....	2,942.31	480.91
			For >10 To 20, Deduct	-73.56	
			For >20 To 40, Deduct	-147.12	
			For >40, Deduct	-244.72	
26 56 13 00-0167	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base.....	3,010.59	480.91
			For >10 To 20, Deduct	-75.26	
			For >20 To 40, Deduct	-150.53	
			For >40, Deduct	-249.84	
26 56 13 00-0168	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base.....	3,473.35	641.21
			For >10 To 20, Deduct	-86.83	
			For >20 To 40, Deduct	-173.67	
			For >40, Deduct	-292.56	
26 56 13 00-0169	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base.....	3,525.28	641.21
			For >10 To 20, Deduct	-88.13	
			For >20 To 40, Deduct	-176.26	
			For >40, Deduct	-296.46	
26 56 13 00-0170	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base.....	3,582.01	641.21
			For >10 To 20, Deduct	-89.55	
			For >20 To 40, Deduct	-179.10	
			For >40, Deduct	-300.71	
26 56 13 00-0171	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base.....	3,918.29	721.36
			For >10 To 20, Deduct	-97.96	
			For >20 To 40, Deduct	-195.91	
			For >40, Deduct	-329.94	
26 56 13 00-0172	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base.....	3,988.78	721.36
			For >10 To 20, Deduct	-99.72	
			For >20 To 40, Deduct	-199.44	
			For >40, Deduct	-335.23	
26 56 13 00-0173	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base.....	3,999.36	721.36
			For >10 To 20, Deduct	-99.98	
			For >20 To 40, Deduct	-199.97	
			For >40, Deduct	-336.02	
26 56 13 00-0174	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base.....	4,249.27	761.43
			For >10 To 20, Deduct	-106.23	
			For >20 To 40, Deduct	-212.46	
			For >40, Deduct	-356.77	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0175	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davitt Style Arm, Anchor Base	4,280.19	761.43
			For >10 To 20, Deduct	-107.00	
			For >20 To 40, Deduct	-214.01	
			For >40, Deduct	-359.09	
26 56 13 00-0176	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davitt Style Arm, Anchor Base	4,352.67	761.43
			For >10 To 20, Deduct	-108.82	
			For >20 To 40, Deduct	-217.63	
			For >40, Deduct	-364.52	
26 56 13 00-0177			Area Light Poles (26 56 13 00-0001) Note: Excludes lighting fixtures.		
26 56 13 00-0178			Steel Area Light Poles (26 56 13 00-0177) Note: Includes powdercoat finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions, factory drilled fixture mounting holes and tenon, open or capped top.		
26 56 13 00-0179			Round Straight, Steel Area Light Poles (26 56 13 00-0178)		
26 56 13 00-0180			Round Straight, Steel Area Light Poles, Anchor Base (26 56 13 00-0179)		
26 56 13 00-0181	EA		10' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	1,552.54	280.53
			For Galvanized Finish, Add	29.74	
			For >10 To 20, Deduct	-53.69	
			For >20 To 40, Deduct	-97.46	
			For >40, Deduct	-204.83	
26 56 13 00-0182	EA		12' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	1,687.62	320.61
			For Galvanized Finish, Add	31.39	
			For >10 To 20, Deduct	-57.89	
			For >20 To 40, Deduct	-105.31	
			For >40, Deduct	-221.08	
26 56 13 00-0183	EA		14' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	1,885.87	360.68
			For Galvanized Finish, Add	34.94	
			For >10 To 20, Deduct	-64.61	
			For >20 To 40, Deduct	-117.58	
			For >40, Deduct	-246.81	
26 56 13 00-0184	EA		16' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	2,089.62	400.75
			For Galvanized Finish, Add	38.64	
			For >10 To 20, Deduct	-71.56	
			For >20 To 40, Deduct	-130.24	
			For >40, Deduct	-273.37	
26 56 13 00-0185	EA		18' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	2,224.70	440.83
			For Galvanized Finish, Add	40.29	
			For >10 To 20, Deduct	-75.76	
			For >20 To 40, Deduct	-138.10	
			For >40, Deduct	-289.62	
26 56 13 00-0186	EA		20' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	2,346.05	480.91
			For Galvanized Finish, Add	41.53	
			For >10 To 20, Deduct	-79.41	
			For >20 To 40, Deduct	-144.99	
			For >40, Deduct	-303.82	
26 56 13 00-0187	EA		10' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	1,623.95	280.53
			For Galvanized Finish, Add	31.89	
			For >10 To 20, Deduct	-56.54	
			For >20 To 40, Deduct	-102.46	
			For >40, Deduct	-215.54	
26 56 13 00-0188	EA		12' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	1,761.77	320.61
			For Galvanized Finish, Add	33.62	
			For >10 To 20, Deduct	-60.85	
			For >20 To 40, Deduct	-110.50	
			For >40, Deduct	-232.21	
26 56 13 00-0189	EA		14' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	2,034.18	360.68
			For Galvanized Finish, Add	39.38	
			For >10 To 20, Deduct	-70.55	
			For >20 To 40, Deduct	-127.97	
			For >40, Deduct	-269.06	
26 56 13 00-0190	EA		16' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	2,185.75	400.75
			For Galvanized Finish, Add	41.53	
			For >10 To 20, Deduct	-75.41	
			For >20 To 40, Deduct	-136.97	
			For >40, Deduct	-287.79	
26 56 13 00-0191	EA		18' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	2,329.07	440.83
			For Galvanized Finish, Add	43.42	
			For >10 To 20, Deduct	-79.94	
			For >20 To 40, Deduct	-145.40	
			For >40, Deduct	-305.28	
26 56 13 00-0192	EA		20' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	2,444.92	480.91
			For Galvanized Finish, Add	44.49	
			For >10 To 20, Deduct	-83.37	
			For >20 To 40, Deduct	-151.91	
			For >40, Deduct	-318.65	
26 56 13 00-0193	EA		25' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	2,867.14	641.21
			For Galvanized Finish, Add	47.54	
			For >10 To 20, Deduct	-95.45	
			For >20 To 40, Deduct	-175.05	
			For >40, Deduct	-365.95	



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0194	EA	10' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	1,623.95	280.53	
		For Galvanized Finish, Add	31.89		
		For >10 To 20, Deduct	-56.54		
		For >20 To 40, Deduct	-102.46		
		For >40, Deduct	-215.54		
26 56 13 00-0195	EA	12' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	1,770.01	320.61	
		For Galvanized Finish, Add	33.86		
		For >10 To 20, Deduct	-61.18		
		For >20 To 40, Deduct	-111.08		
		For >40, Deduct	-233.44		
26 56 13 00-0196	EA	14' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	2,078.12	360.68	
		For Galvanized Finish, Add	40.70		
		For >10 To 20, Deduct	-72.30		
		For >20 To 40, Deduct	-131.04		
		For >40, Deduct	-275.65		
26 56 13 00-0197	EA	16' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	2,193.99	400.75	
		For Galvanized Finish, Add	41.77		
		For >10 To 20, Deduct	-75.74		
		For >20 To 40, Deduct	-137.55		
		For >40, Deduct	-289.02		
26 56 13 00-0198	EA	18' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	2,329.07	440.83	
		For Galvanized Finish, Add	43.42		
		For >10 To 20, Deduct	-79.94		
		For >20 To 40, Deduct	-145.40		
		For >40, Deduct	-305.28		
26 56 13 00-0199	EA	20' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	2,444.92	480.91	
		For Galvanized Finish, Add	44.49		
		For >10 To 20, Deduct	-83.37		
		For >20 To 40, Deduct	-151.91		
		For >40, Deduct	-318.65		
26 56 13 00-0200	EA	25' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	2,944.04	641.21	
		For Galvanized Finish, Add	49.85		
		For >10 To 20, Deduct	-98.53		
		For >20 To 40, Deduct	-180.43		
		For >40, Deduct	-377.49		
26 56 13 00-0201	EA	30' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	3,247.17	721.36	
		For Galvanized Finish, Add	54.13		
		For >10 To 20, Deduct	-108.25		
		For >20 To 40, Deduct	-198.45		
		For >40, Deduct	-414.94		
26 56 13 00-0202	EA	20' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	2,620.69	480.91	
		For Galvanized Finish, Add	49.77		
		For >10 To 20, Deduct	-90.40		
		For >20 To 40, Deduct	-164.21		
		For >40, Deduct	-345.01		
26 56 13 00-0203	EA	25' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	2,979.74	641.21	
		For Galvanized Finish, Add	50.92		
		For >10 To 20, Deduct	-99.95		
		For >20 To 40, Deduct	-182.93		
		For >40, Deduct	-382.84		
26 56 13 00-0204	EA	30' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base	3,315.83	721.36	
		For Galvanized Finish, Add	56.19		
		For >10 To 20, Deduct	-110.99		
		For >20 To 40, Deduct	-203.25		
		For >40, Deduct	-425.24		
26 56 13 00-0205		Round Tapered, Steel Area Light Poles (26 56 13 00-0178)			
26 56 13 00-0206		Round Tapered, Steel Area Light Poles, Anchor Base (26 56 13 00-0205)			
26 56 13 00-0207	EA	20' High, 5.90" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	3,241.40	480.91	
		For Galvanized Finish, Add	68.39		
		For >10 To 20, Deduct	-115.23		
		For >20 To 40, Deduct	-207.66		
		For >40, Deduct	-438.12		
26 56 13 00-0208	EA	20' High, 6.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	3,326.54	480.91	
		For Galvanized Finish, Add	70.94		
		For >10 To 20, Deduct	-118.63		
		For >20 To 40, Deduct	-213.62		
		For >40, Deduct	-450.89		
26 56 13 00-0209	EA	25' High, 5.90" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	3,833.90	641.21	
		For Galvanized Finish, Add	76.54		
		For >10 To 20, Deduct	-134.12		
		For >20 To 40, Deduct	-242.72		
		For >40, Deduct	-510.96		
26 56 13 00-0210	EA	25' High, 7.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	4,009.67	641.21	
		For Galvanized Finish, Add	81.82		
		For >10 To 20, Deduct	-141.15		
		For >20 To 40, Deduct	-255.03		
		For >40, Deduct	-537.33		
26 56 13 00-0211	EA	30' High, 6.60" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base	4,268.86	721.36	
		For Galvanized Finish, Add	84.78		
		For >10 To 20, Deduct	-149.11		
		For >20 To 40, Deduct	-269.97		
		For >40, Deduct	-568.19		

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0212	EA	30' High, 8.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	4,562.73		721.36
		For Galvanized Finish, Add	93.60		
		For >10 To 20, Deduct	-160.87		
		For >20 To 40, Deduct	-290.54		
		For >40, Deduct	-612.27		
26 56 13 00-0213	EA	35' High, 7.30" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	4,703.30		761.43
		For Galvanized Finish, Add	95.41		
		For >10 To 20, Deduct	-165.29		
		For >20 To 40, Deduct	-298.77		
		For >40, Deduct	-629.35		
26 56 13 00-0214	EA	35' High, 8.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	4,884.57		761.43
		For Galvanized Finish, Add	100.85		
		For >10 To 20, Deduct	-172.54		
		For >20 To 40, Deduct	-311.46		
		For >40, Deduct	-656.54		
26 56 13 00-0215	EA	35' High, 9.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	5,318.52		761.43
		For Galvanized Finish, Add	113.87		
		For >10 To 20, Deduct	-189.90		
		For >20 To 40, Deduct	-341.84		
		For >40, Deduct	-721.63		
26 56 13 00-0216	EA	39' High, 7.82" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	5,365.71		801.52
		For Galvanized Finish, Add	112.88		
		For >10 To 20, Deduct	-190.58		
		For >20 To 40, Deduct	-343.54		
		For >40, Deduct	-724.71		
26 56 13 00-0217	EA	39' High, 9.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	5,442.61		801.52
		For Galvanized Finish, Add	115.19		
		For >10 To 20, Deduct	-193.66		
		For >20 To 40, Deduct	-348.92		
		For >40, Deduct	-736.24		
26 56 13 00-0218	EA	45' High, 10.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	7,403.87		1,041.96
		For Galvanized Finish, Add	159.60		
		For >10 To 20, Deduct	-264.90		
		For >20 To 40, Deduct	-476.59		
		For >40, Deduct	-1,006.38		
26 56 13 00-0219	EA	50' High, 10.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	7,707.99		1,202.27
		For Galvanized Finish, Add	159.10		
		For >10 To 20, Deduct	-272.25		
		For >20 To 40, Deduct	-491.47		
		For >40, Deduct	-1,035.97		
26 56 13 00-0220	EA	25' High, 7.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	5,201.65		641.21
		For Galvanized Finish, Add	117.58		
		For >10 To 20, Deduct	-188.83		
		For >20 To 40, Deduct	-338.47		
		For >40, Deduct	-716.13		
26 56 13 00-0221	EA	30' High, 8.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	5,905.76		721.36
		For Galvanized Finish, Add	133.89		
		For >10 To 20, Deduct	-214.59		
		For >20 To 40, Deduct	-384.55		
		For >40, Deduct	-813.73		
26 56 13 00-0222	EA	39' High, 9.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	6,846.06		801.52
		For Galvanized Finish, Add	157.29		
		For >10 To 20, Deduct	-249.80		
		For >20 To 40, Deduct	-447.16		
		For >40, Deduct	-946.76		
26 56 13 00-0223	EA	45' High, 10.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	8,260.77		1,041.96
		For Galvanized Finish, Add	185.30		
		For >10 To 20, Deduct	-299.17		
		For >20 To 40, Deduct	-536.58		
		For >40, Deduct	-1,134.92		
26 56 13 00-0224	EA	50' High, 10.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	9,641.51		1,202.27
		For Galvanized Finish, Add	217.11		
		For >10 To 20, Deduct	-349.59		
		For >20 To 40, Deduct	-626.81		
		For >40, Deduct	-1,326.00		
26 56 13 00-0225	EA	50' High, 11.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	10,759.33		1,202.27
		For Galvanized Finish, Add	250.64		
		For >10 To 20, Deduct	-394.31		
		For >20 To 40, Deduct	-705.06		
		For >40, Deduct	-1,493.67		
26 56 13 00-0226	EA	50' High, 13.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	14,494.54		1,202.27
		For Galvanized Finish, Add	362.70		
		For >10 To 20, Deduct	-543.71		
		For >20 To 40, Deduct	-966.53		
		For >40, Deduct	-2,053.95		
26 56 13 00-0227	EA	50' High, 13.00" Base OD, 3 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	16,307.22		1,202.27
		For Galvanized Finish, Add	417.08		
		For >10 To 20, Deduct	-616.22		
		For >20 To 40, Deduct	-1,093.41		
		For >40, Deduct	-2,325.86		

26 56 13 00-0228 Square Straight, Steel Area Light Poles (26 56 13 00-0178)

26 56 13 00-0229 Square Straight, Steel Area Light Poles, Anchor Base (26 56 13 00-0228)



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0230	EA	10' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base	1,530.57	280.53	
		For Galvanized Finish, Add	29.09		
		For >10 To 20, Deduct	-52.81		
		For >20 To 40, Deduct	-95.92		
		For >40, Deduct	-201.53		
26 56 13 00-0231	EA	12' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base	1,610.72	320.61	
		For Galvanized Finish, Add	29.09		
		For >10 To 20, Deduct	-54.81		
		For >20 To 40, Deduct	-99.93		
		For >40, Deduct	-209.55		
26 56 13 00-0232	EA	14' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base	1,737.56	360.68	
		For Galvanized Finish, Add	30.49		
		For >10 To 20, Deduct	-58.68		
		For >20 To 40, Deduct	-107.20		
		For >40, Deduct	-224.57		
26 56 13 00-0233	EA	15' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base	1,843.54	380.72	
		For Galvanized Finish, Add	32.46		
		For >10 To 20, Deduct	-62.32		
		For >20 To 40, Deduct	-113.82		
		For >40, Deduct	-238.46		
26 56 13 00-0234	EA	16' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base	1,883.63	400.75	
		For Galvanized Finish, Add	32.46		
		For >10 To 20, Deduct	-63.32		
		For >20 To 40, Deduct	-115.82		
		For >40, Deduct	-242.47		
26 56 13 00-0235	EA	18' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base	1,993.99	440.83	
		For Galvanized Finish, Add	33.37		
		For >10 To 20, Deduct	-66.53		
		For >20 To 40, Deduct	-121.95		
		For >40, Deduct	-255.02		
26 56 13 00-0236	EA	20' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base	2,098.86	480.91	
		For Galvanized Finish, Add	34.11		
		For >10 To 20, Deduct	-69.53		
		For >20 To 40, Deduct	-127.68		
		For >40, Deduct	-266.74		
26 56 13 00-0237	EA	25' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base	2,584.25	641.21	
		For Galvanized Finish, Add	39.05		
		For >10 To 20, Deduct	-84.13		
		For >20 To 40, Deduct	-155.25		
		For >40, Deduct	-323.52		
26 56 13 00-0238	EA	20' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base	2,469.64	480.91	
		For Galvanized Finish, Add	45.23		
		For >10 To 20, Deduct	-84.36		
		For >20 To 40, Deduct	-153.64		
		For >40, Deduct	-322.36		
26 56 13 00-0239	EA	25' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base	3,095.10	641.21	
		For Galvanized Finish, Add	54.38		
		For >10 To 20, Deduct	-104.57		
		For >20 To 40, Deduct	-191.01		
		For >40, Deduct	-400.14		
26 56 13 00-0240	EA	30' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base	3,554.77	721.36	
		For Galvanized Finish, Add	63.36		
		For >10 To 20, Deduct	-120.55		
		For >20 To 40, Deduct	-219.98		
		For >40, Deduct	-461.08		
26 56 13 00-0241	EA	20' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base	2,368.02	480.91	
		For Galvanized Finish, Add	42.19		
		For >10 To 20, Deduct	-80.29		
		For >20 To 40, Deduct	-146.53		
		For >40, Deduct	-307.11		
26 56 13 00-0242	EA	25' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base	2,897.35	641.21	
		For Galvanized Finish, Add	48.45		
		For >10 To 20, Deduct	-96.66		
		For >20 To 40, Deduct	-177.17		
		For >40, Deduct	-370.48		
26 56 13 00-0243	EA	30' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base	3,384.49	721.36	
		For Galvanized Finish, Add	58.25		
		For >10 To 20, Deduct	-113.74		
		For >20 To 40, Deduct	-208.06		
		For >40, Deduct	-435.54		
26 56 13 00-0244	EA	20' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base	2,716.82	480.91	
		For Galvanized Finish, Add	52.65		
		For >10 To 20, Deduct	-94.25		
		For >20 To 40, Deduct	-170.94		
		For >40, Deduct	-359.43		
26 56 13 00-0245	EA	25' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base	3,342.28	641.21	
		For Galvanized Finish, Add	61.80		
		For >10 To 20, Deduct	-114.45		
		For >20 To 40, Deduct	-208.31		
		For >40, Deduct	-437.22		
26 56 13 00-0246	EA	30' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base	3,788.22	721.36	
		For Galvanized Finish, Add	70.36		
		For >10 To 20, Deduct	-129.89		
		For >20 To 40, Deduct	-236.32		
		For >40, Deduct	-496.10		

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0247	EA	35' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	4,208.94	761.43
		For Galvanized Finish, Add	80.58	
		For >10 To 20, Deduct	-145.51	
		For >20 To 40, Deduct	-264.17	
		For >40, Deduct	-555.20	
26 56 13 00-0248	EA	30' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	4,329.28	721.36
		For Galvanized Finish, Add	86.60	
		For >10 To 20, Deduct	-151.53	
		For >20 To 40, Deduct	-274.20	
		For >40, Deduct	-577.26	
26 56 13 00-0249	EA	35' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	4,752.74	761.43
		For Galvanized Finish, Add	96.90	
		For >10 To 20, Deduct	-167.27	
		For >20 To 40, Deduct	-302.23	
		For >40, Deduct	-636.77	
26 56 13 00-0250	EA	40' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base.....	5,027.89	801.52
		For Galvanized Finish, Add	102.75	
		For >10 To 20, Deduct	-177.07	
		For >20 To 40, Deduct	-319.89	
		For >40, Deduct	-674.03	
26 56 13 00-0251 Hinged, Square Straight, Steel Area Light Poles (26 56 13 00-0178)				
26 56 13 00-0252 Hinged, Square Straight, Steel Area Light Poles, Anchor Base (26 56 13 00-0251)				
26 56 13 00-0253	EA	20' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	5,516.06	480.91
		For Galvanized Finish, Add	136.63	
		For >10 To 20, Deduct	-206.22	
		For >20 To 40, Deduct	-366.89	
		For >40, Deduct	-779.32	
26 56 13 00-0254	EA	25' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	6,146.31	641.21
		For Galvanized Finish, Add	145.92	
		For >10 To 20, Deduct	-226.62	
		For >20 To 40, Deduct	-404.59	
		For >40, Deduct	-857.83	
26 56 13 00-0255	EA	30' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	8,620.26	721.36
		For Galvanized Finish, Add	215.33	
		For >10 To 20, Deduct	-323.17	
		For >20 To 40, Deduct	-574.56	
		For >40, Deduct	-1,220.90	
26 56 13 00-0256	EA	20' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	5,627.07	480.91
		For Galvanized Finish, Add	139.96	
		For >10 To 20, Deduct	-210.66	
		For >20 To 40, Deduct	-374.66	
		For >40, Deduct	-795.97	
26 56 13 00-0257	EA	25' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	6,791.91	641.21
		For Galvanized Finish, Add	165.28	
		For >10 To 20, Deduct	-252.44	
		For >20 To 40, Deduct	-449.79	
		For >40, Deduct	-954.67	
26 56 13 00-0258	EA	30' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	9,581.35	721.36
		For Galvanized Finish, Add	244.16	
		For >10 To 20, Deduct	-361.61	
		For >20 To 40, Deduct	-641.84	
		For >40, Deduct	-1,365.07	
26 56 13 00-0259	EA	35' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	11,002.36	761.43
		For Galvanized Finish, Add	284.38	
		For >10 To 20, Deduct	-417.25	
		For >20 To 40, Deduct	-739.71	
		For >40, Deduct	-1,574.21	
26 56 13 00-0260	EA	39' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	12,943.35	801.52
		For Galvanized Finish, Add	340.21	
		For >10 To 20, Deduct	-493.69	
		For >20 To 40, Deduct	-873.97	
		For >40, Deduct	-1,861.35	
26 56 13 00-0261	EA	20' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	5,340.78	480.91
		For Galvanized Finish, Add	131.37	
		For >10 To 20, Deduct	-199.20	
		For >20 To 40, Deduct	-354.62	
		For >40, Deduct	-753.03	
26 56 13 00-0262	EA	25' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	5,865.87	641.21
		For Galvanized Finish, Add	137.50	
		For >10 To 20, Deduct	-215.40	
		For >20 To 40, Deduct	-384.96	
		For >40, Deduct	-815.76	
26 56 13 00-0263	EA	30' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	8,126.56	721.36
		For Galvanized Finish, Add	200.51	
		For >10 To 20, Deduct	-303.42	
		For >20 To 40, Deduct	-540.00	
		For >40, Deduct	-1,146.85	
26 56 13 00-0264	EA	20' High, 6.44" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	5,542.35	480.91
		For Galvanized Finish, Add	137.42	
		For >10 To 20, Deduct	-207.27	
		For >20 To 40, Deduct	-368.73	
		For >40, Deduct	-783.26	



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0265	EA	25' High, 6.44" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	.....	6,529.00	641.21
		For Galvanized Finish, Add	.....	157.40	
		For >10 To 20, Deduct	.....	-241.92	
		For >20 To 40, Deduct	.....	-431.38	
		For >40, Deduct	.....	-915.23	
26 56 13 00-0266	EA	30' High, 6.44" OD, 7 Gauge, Hinged Square Straight, Steel Area Light Pole, Anchor Base	.....	9,216.19	721.36
		For Galvanized Finish, Add	.....	233.20	
		For >10 To 20, Deduct	.....	-347.01	
		For >20 To 40, Deduct	.....	-616.28	
		For >40, Deduct	.....	-1,310.29	
26 56 13 00-0267	EA	20' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	.....	5,852.00	480.91
		For Galvanized Finish, Add	.....	146.71	
		For >10 To 20, Deduct	.....	-219.65	
		For >20 To 40, Deduct	.....	-390.40	
		For >40, Deduct	.....	-829.71	
26 56 13 00-0268	EA	25' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	.....	7,086.96	641.21
		For Galvanized Finish, Add	.....	174.14	
		For >10 To 20, Deduct	.....	-264.24	
		For >20 To 40, Deduct	.....	-470.44	
		For >40, Deduct	.....	-998.92	
26 56 13 00-0269	EA	30' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	.....	9,873.47	721.36
		For Galvanized Finish, Add	.....	252.92	
		For >10 To 20, Deduct	.....	-373.30	
		For >20 To 40, Deduct	.....	-662.29	
		For >40, Deduct	.....	-1,408.88	
26 56 13 00-0270	EA	35' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	.....	11,358.75	761.43
		For Galvanized Finish, Add	.....	295.08	
		For >10 To 20, Deduct	.....	-431.51	
		For >20 To 40, Deduct	.....	-764.65	
		For >40, Deduct	.....	-1,627.67	
26 56 13 00-0271	EA	39' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base	.....	13,133.23	801.52
		For Galvanized Finish, Add	.....	345.91	
		For >10 To 20, Deduct	.....	-501.28	
		For >20 To 40, Deduct	.....	-887.27	
		For >40, Deduct	.....	-1,889.83	
26 56 13 00-0272		Square Tapered, Steel Area Light Poles	(26 56 13 00-0178)		
26 56 13 00-0273		Square Tapered, Steel Area Light Poles, Anchor Base	(26 56 13 00-0272)		
26 56 13 00-0274	EA	20' High, 5.25" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	.....	4,166.96	480.91
		For Galvanized Finish, Add	.....	96.15	
		For >10 To 20, Deduct	.....	-152.25	
		For >20 To 40, Deduct	.....	-272.45	
		For >40, Deduct	.....	-576.95	
26 56 13 00-0275	EA	25' High, 6.00" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	.....	5,053.34	641.21
		For Galvanized Finish, Add	.....	113.13	
		For >10 To 20, Deduct	.....	-182.90	
		For >20 To 40, Deduct	.....	-328.09	
		For >40, Deduct	.....	-693.88	
26 56 13 00-0276	EA	30' High, 6.41" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	.....	5,622.87	721.36
		For Galvanized Finish, Add	.....	125.40	
		For >10 To 20, Deduct	.....	-203.27	
		For >20 To 40, Deduct	.....	-364.75	
		For >40, Deduct	.....	-771.29	
26 56 13 00-0277	EA	35' High, 6.81" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	.....	6,244.08	761.43
		For Galvanized Finish, Add	.....	141.64	
		For >10 To 20, Deduct	.....	-226.92	
		For >20 To 40, Deduct	.....	-406.63	
		For >40, Deduct	.....	-860.47	
26 56 13 00-0278	EA	39' High, 7.18" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	.....	6,582.40	801.52
		For Galvanized Finish, Add	.....	149.38	
		For >10 To 20, Deduct	.....	-239.25	
		For >20 To 40, Deduct	.....	-428.71	
		For >40, Deduct	.....	-907.21	
26 56 13 00-0279	EA	20' High, 5.50" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	.....	5,400.13	480.91
		For Galvanized Finish, Add	.....	133.15	
		For >10 To 20, Deduct	.....	-201.58	
		For >20 To 40, Deduct	.....	-358.77	
		For >40, Deduct	.....	-761.93	
26 56 13 00-0280	EA	25' High, 6.41" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	.....	6,020.10	641.21
		For Galvanized Finish, Add	.....	142.13	
		For >10 To 20, Deduct	.....	-221.57	
		For >20 To 40, Deduct	.....	-395.76	
		For >40, Deduct	.....	-838.89	
26 56 13 00-0281	EA	30' High, 6.41" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	.....	6,413.86	721.36
		For Galvanized Finish, Add	.....	149.13	
		For >10 To 20, Deduct	.....	-234.91	
		For >20 To 40, Deduct	.....	-420.12	
		For >40, Deduct	.....	-889.94	
26 56 13 00-0282	EA	30' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base	.....	7,138.93	721.36
		For Galvanized Finish, Add	.....	170.89	
		For >10 To 20, Deduct	.....	-263.92	
		For >20 To 40, Deduct	.....	-470.87	
		For >40, Deduct	.....	-998.70	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0283 EA 35' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	7,740.91 186.54 -286.79 -511.41 -1,084.99	761.43
26 56 13 00-0284 EA 35' High, 7.88" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	8,639.01 213.48 -322.72 -574.27 -1,219.71	761.43
26 56 13 00-0285 EA 39' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	7,862.26 187.78 -290.44 -518.30 -1,099.19	801.52
26 56 13 00-0286 EA 39' High, 8.75" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	10,073.17 254.10 -378.88 -673.06 -1,430.82	801.52
26 56 13 00-0287 EA 45' High, 7.88" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	9,274.22 215.71 -339.71 -607.52 -1,286.94	1,041.96
26 56 13 00-0288 EA 45' High, 8.75" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	10,782.04 260.94 -400.02 -713.06 -1,513.11	1,041.96
26 56 13 00-0289 EA 50' High, 8.81" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... For Galvanized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	11,179.54 263.25 -411.11 -734.48 -1,556.70	1,202.27
26 56 13 00-0290 Factory Accessories For Steel Area Light Poles (26 56 13 00-0178)		
26 56 13 00-0291 EA 1/2", 3/4" Or 1" Factory Threaded Pipe Coupling Or Nipple For Steel Area Light Poles.....	97.38	
26 56 13 00-0292 EA Extra Handhole For Steel Area Light Poles.....	144.81	
26 56 13 00-0293 EA Vibration Dampener For Steel Area Light Poles.....	147.31	
26 56 13 00-0294 Aluminum Area Light Poles (26 56 13 00-0177)		
Note: Includes satin brushed or painted finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions, factory drilled fixture mounting holes and tenon, open or capped top.		
26 56 13 00-0295 Round Straight, Aluminum Area Light Poles (26 56 13 00-0294)		
26 56 13 00-0296 Round Straight, Aluminum Area Light Poles, Anchor Base (26 56 13 00-0295)		
26 56 13 00-0297 EA 8' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	811.45 33.05 66.11 -25.24 -47.18 -97.67	240.46
26 56 13 00-0298 EA 10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	908.56 34.75 69.50 -27.93 -52.38 -108.23	280.53
26 56 13 00-0299 EA 12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,009.89 36.87 73.74 -30.78 -57.87 -119.42	320.61
26 56 13 00-0300 EA 14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,112.08 39.07 78.14 -33.66 -63.42 -130.74	360.68
26 56 13 00-0301 EA 15' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,166.56 40.51 81.03 -35.24 -66.43 -136.91	380.72
26 56 13 00-0302 EA 16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base For Bronze Or Satin Anodized Finish, Add For Black Anodized Finish, Add For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	1,220.21 41.87 83.74 -36.79 -69.38 -142.96	400.75



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0303	EA	16'	High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,271.06 46.95 93.91 -38.82 -72.94 -150.58	400.75
26 56 13 00-0304	EA	18'	High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,383.42 50.18 100.35 -42.11 -79.21 -163.43	440.83
26 56 13 00-0305	EA	20'	High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,490.69 52.89 105.77 -45.20 -85.11 -175.51	480.91
26 56 13 00-0306	EA	15'	High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,353.87 59.24 118.49 -42.73 -79.54 -165.01	380.72
26 56 13 00-0307	EA	20'	High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,678.00 71.62 143.24 -52.69 -98.22 -203.61	480.91
26 56 13 00-0308	EA	20'	High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,772.93 81.11 162.22 -56.49 -104.87 -217.85	480.91
26 56 13 00-0309	EA	25'	High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,182.52 90.01 180.02 -68.06 -127.13 -263.26	641.21
26 56 13 00-0310	EA	30'	High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,511.49 106.88 213.75 -78.82 -146.95 -304.59	721.36
26 56 13 00-0311	EA	20'	High, 4" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,549.17 58.74 117.47 -47.54 -89.21 -184.28	480.91
26 56 13 00-0312	EA	20'	High, 5" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,765.30 80.35 160.70 -56.18 -104.33 -216.70	480.91
26 56 13 00-0313	EA	25'	High, 5" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,168.96 88.65 177.31 -67.52 -126.18 -261.22	641.21
26 56 13 00-0314	EA	25'	High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,291.85 100.94 201.89 -72.44 -134.78 -279.66	641.21
26 56 13 00-0315	EA	30'	High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,650.49 120.78 241.55 -84.38 -156.68 -325.44	721.36
26 56 13 00-0316	Round Straight, Aluminum Area Light Poles, Hinged Anchor Base (26 56 13 00-0295)				
26 56 13 00-0317	EA	8'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	897.90 62.55 -28.70 -53.23 -110.64	240.46

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0318	EA	10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,011.96	280.53
		For Bronze, Satin Or Black Anodized Finish, Add	67.64	
		For >10 To 20, Deduct	-32.06	
		For >20 To 40, Deduct	-59.62	
		For >40, Deduct	-123.74	
26 56 13 00-0319	EA	12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,122.62	320.61
		For Bronze, Satin Or Black Anodized Finish, Add	72.21	
		For >10 To 20, Deduct	-35.29	
		For >20 To 40, Deduct	-65.76	
		For >40, Deduct	-136.33	
26 56 13 00-0320	EA	14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,217.18	360.68
		For Bronze, Satin Or Black Anodized Finish, Add	74.37	
		For >10 To 20, Deduct	-37.87	
		For >20 To 40, Deduct	-70.78	
		For >40, Deduct	-146.51	
26 56 13 00-0321	EA	16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,321.92	400.75
		For Bronze, Satin Or Black Anodized Finish, Add	78.06	
		For >10 To 20, Deduct	-40.85	
		For >20 To 40, Deduct	-76.50	
		For >40, Deduct	-158.21	
26 56 13 00-0322	EA	10' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,029.76	280.53
		For Bronze, Satin Or Black Anodized Finish, Add	70.31	
		For >10 To 20, Deduct	-32.77	
		For >20 To 40, Deduct	-60.86	
		For >40, Deduct	-126.41	
26 56 13 00-0323	EA	12' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,138.72	320.61
		For Bronze, Satin Or Black Anodized Finish, Add	74.63	
		For >10 To 20, Deduct	-35.93	
		For >20 To 40, Deduct	-66.89	
		For >40, Deduct	-138.75	
26 56 13 00-0324	EA	14' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,250.23	360.68
		For Bronze, Satin Or Black Anodized Finish, Add	79.33	
		For >10 To 20, Deduct	-39.19	
		For >20 To 40, Deduct	-73.09	
		For >40, Deduct	-151.47	
26 56 13 00-0325	EA	16' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,360.90	400.75
		For Bronze, Satin Or Black Anodized Finish, Add	83.91	
		For >10 To 20, Deduct	-42.41	
		For >20 To 40, Deduct	-79.23	
		For >40, Deduct	-164.06	
26 56 13 00-0326	EA	18' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,475.80	440.83
		For Bronze, Satin Or Black Anodized Finish, Add	89.12	
		For >10 To 20, Deduct	-45.81	
		For >20 To 40, Deduct	-85.67	
		For >40, Deduct	-177.29	
26 56 13 00-0327	EA	20' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,585.62	480.91
		For Bronze, Satin Or Black Anodized Finish, Add	93.57	
		For >10 To 20, Deduct	-49.00	
		For >20 To 40, Deduct	-91.76	
		For >40, Deduct	-189.75	
26 56 13 00-0328	EA	12' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,171.78	320.61
		For Bronze, Satin Or Black Anodized Finish, Add	79.59	
		For >10 To 20, Deduct	-37.25	
		For >20 To 40, Deduct	-69.20	
		For >40, Deduct	-143.71	
26 56 13 00-0329	EA	14' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,289.22	360.68
		For Bronze, Satin Or Black Anodized Finish, Add	85.18	
		For >10 To 20, Deduct	-40.75	
		For >20 To 40, Deduct	-75.82	
		For >40, Deduct	-157.32	
26 56 13 00-0330	EA	16' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,405.82	400.75
		For Bronze, Satin Or Black Anodized Finish, Add	90.65	
		For >10 To 20, Deduct	-44.21	
		For >20 To 40, Deduct	-82.38	
		For >40, Deduct	-170.80	
26 56 13 00-0331	EA	18' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,524.11	440.83
		For Bronze, Satin Or Black Anodized Finish, Add	96.37	
		For >10 To 20, Deduct	-47.74	
		For >20 To 40, Deduct	-89.05	
		For >40, Deduct	-184.53	
26 56 13 00-0332	EA	16' High, 6" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,453.29	400.75
		For Bronze, Satin Or Black Anodized Finish, Add	97.77	
		For >10 To 20, Deduct	-46.11	
		For >20 To 40, Deduct	-85.70	
		For >40, Deduct	-177.92	
26 56 13 00-0333	EA	20' High, 6" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,696.65	480.91
		For Bronze, Satin Or Black Anodized Finish, Add	110.22	
		For >10 To 20, Deduct	-53.44	
		For >20 To 40, Deduct	-99.53	
		For >40, Deduct	-206.41	
26 56 13 00-0334	EA	12' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base	1,203.14	320.61
		For Bronze, Satin Or Black Anodized Finish, Add	84.29	
		For >10 To 20, Deduct	-38.51	
		For >20 To 40, Deduct	-71.40	
		For >40, Deduct	-148.41	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0335	EA	14'	High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,329.90 91.28 -42.38 -78.67 -163.42	360.68
26 56 13 00-0336	EA	16'	High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,448.20 97.00 -45.91 -85.34 -177.15	400.75
26 56 13 00-0337	EA	18'	High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,571.58 103.49 -49.64 -92.38 -191.65	440.83
26 56 13 00-0338	EA	20'	High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,692.41 109.59 -53.27 -99.23 -205.77	480.91
26 56 13 00-0339	EA	16'	High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,510.07 106.28 -48.38 -89.67 -186.43	400.75
26 56 13 00-0340	EA	18'	High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,641.07 113.91 -52.42 -97.24 -202.08	440.83
26 56 13 00-0341	EA	20'	High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,718.68 113.53 -54.32 -101.07 -209.71	480.91
26 56 13 00-0342	Round Straight, Aluminum Area Light Poles, Direct Burial (26 56 13 00-0295) Note: Includes rubberized undercoating on embedded portion.				
26 56 13 00-0343	EA	10'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	712.65 31.19 62.38 -22.49 -41.87 -86.86	200.38
26 56 13 00-0344	EA	12'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	768.83 32.80 65.60 -24.14 -45.00 -93.28	220.41
26 56 13 00-0345	EA	14'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	847.05 36.61 73.23 -26.67 -49.68 -103.01	240.46
26 56 13 00-0346	EA	15'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	866.55 38.56 77.13 -27.45 -51.04 -105.94	240.46
26 56 13 00-0347	EA	16'	High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	891.12 41.02 82.04 -28.43 -52.76 -109.62	240.46
26 56 13 00-0348	EA	18'	High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,005.79 48.48 96.96 -32.42 -59.99 -124.82	260.49
26 56 13 00-0349	EA	20'	High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,077.22 51.62 103.23 -34.67 -64.18 -133.53	280.53

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0350	EA	20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,208.59	280.53
		For Bronze Or Satin Anodized Finish, Add	64.75	
		For Black Anodized Finish, Add	129.51	
		For >10 To 20, Deduct	-39.93	
		For >20 To 40, Deduct	-73.38	
		For >40, Deduct	-153.24	
26 56 13 00-0351	EA	25' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,457.40	320.61
		For Bronze Or Satin Anodized Finish, Add	81.62	
		For Black Anodized Finish, Add	163.24	
		For >10 To 20, Deduct	-48.68	
		For >20 To 40, Deduct	-89.19	
		For >40, Deduct	-186.55	
26 56 13 00-0352	EA	30' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial	1,651.12	360.68
		For Bronze Or Satin Anodized Finish, Add	92.98	
		For Black Anodized Finish, Add	185.95	
		For >10 To 20, Deduct	-55.22	
		For >20 To 40, Deduct	-101.15	
		For >40, Deduct	-211.60	
26 56 13 00-0353	EA	30' High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Direct Burial	1,806.22	360.68
		For Bronze Or Satin Anodized Finish, Add	108.49	
		For Black Anodized Finish, Add	216.97	
		For >10 To 20, Deduct	-61.43	
		For >20 To 40, Deduct	-112.01	
		For >40, Deduct	-234.87	
26 56 13 00-0354		Round Tapered, Aluminum Area Light Poles (26 56 13 00-0294)		
26 56 13 00-0355		Round Tapered, Aluminum Area Light Poles, Anchor Base (26 56 13 00-0354)		
26 56 13 00-0356	EA	8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	720.77	240.46
		For Bronze Or Satin Anodized Finish, Add	23.99	
		For Black Anodized Finish, Add	47.97	
		For >10 To 20, Deduct	-21.62	
		For >20 To 40, Deduct	-40.84	
		For >40, Deduct	-84.07	
26 56 13 00-0357	EA	10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	820.41	280.53
		For Bronze Or Satin Anodized Finish, Add	25.94	
		For Black Anodized Finish, Add	51.87	
		For >10 To 20, Deduct	-24.40	
		For >20 To 40, Deduct	-46.21	
		For >40, Deduct	-95.01	
26 56 13 00-0358	EA	12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	920.05	320.61
		For Bronze Or Satin Anodized Finish, Add	27.88	
		For Black Anodized Finish, Add	55.77	
		For >10 To 20, Deduct	-27.18	
		For >20 To 40, Deduct	-51.58	
		For >40, Deduct	-105.95	
26 56 13 00-0359	EA	14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,027.33	360.68
		For Bronze Or Satin Anodized Finish, Add	30.60	
		For Black Anodized Finish, Add	61.19	
		For >10 To 20, Deduct	-30.27	
		For >20 To 40, Deduct	-57.49	
		For >40, Deduct	-118.03	
26 56 13 00-0360	EA	16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,133.76	400.75
		For Bronze Or Satin Anodized Finish, Add	33.22	
		For Black Anodized Finish, Add	66.45	
		For >10 To 20, Deduct	-33.33	
		For >20 To 40, Deduct	-63.33	
		For >40, Deduct	-129.99	
26 56 13 00-0361	EA	10' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	842.45	280.53
		For Bronze Or Satin Anodized Finish, Add	28.14	
		For Black Anodized Finish, Add	56.28	
		For >10 To 20, Deduct	-25.28	
		For >20 To 40, Deduct	-47.75	
		For >40, Deduct	-98.31	
26 56 13 00-0362	EA	12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	954.80	320.61
		For Bronze Or Satin Anodized Finish, Add	31.36	
		For Black Anodized Finish, Add	62.72	
		For >10 To 20, Deduct	-28.57	
		For >20 To 40, Deduct	-54.01	
		For >40, Deduct	-111.16	
26 56 13 00-0363	EA	14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,064.62	360.68
		For Bronze Or Satin Anodized Finish, Add	34.33	
		For Black Anodized Finish, Add	68.65	
		For >10 To 20, Deduct	-31.76	
		For >20 To 40, Deduct	-60.10	
		For >40, Deduct	-123.63	
26 56 13 00-0364	EA	18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,278.32	440.83
		For Bronze Or Satin Anodized Finish, Add	39.67	
		For Black Anodized Finish, Add	79.33	
		For >10 To 20, Deduct	-37.91	
		For >20 To 40, Deduct	-71.85	
		For >40, Deduct	-147.66	



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0365	EA	20'	High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,379.66 41.78 83.57 -40.76 -77.34 -158.86	480.91
26 56 13 00-0366	EA	12'	High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	986.16 34.50 68.99 -29.83 -56.21 -115.86	320.61
26 56 13 00-0367	EA	14'	High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,101.06 37.97 75.94 -33.22 -62.65 -129.09	360.68
26 56 13 00-0368	EA	16'	High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,221.90 42.04 84.08 -36.85 -69.50 -143.21	400.75
26 56 13 00-0369	EA	18'	High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,327.48 44.58 89.16 -39.87 -75.29 -155.04	440.83
26 56 13 00-0370	EA	20'	High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,444.92 48.31 96.62 -43.37 -81.91 -168.65	480.91
26 56 13 00-0371	EA	16'	High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,304.96 50.34 100.69 -40.18 -75.32 -155.67	400.75
26 56 13 00-0372	EA	18'	High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,433.43 55.18 110.35 -44.11 -82.71 -170.93	440.83
26 56 13 00-0373	EA	20'	High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,527.14 56.53 113.06 -46.66 -87.66 -180.98	480.91
26 56 13 00-0374	EA	23'	High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,762.87 64.08 128.15 -53.68 -100.96 -208.32	561.06
26 56 13 00-0375	EA	25'	High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,003.69 72.13 144.25 -60.91 -114.61 -236.43	641.21
26 56 13 00-0376	EA	18'	High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,516.49 63.48 126.96 -47.43 -88.52 -183.39	440.83
26 56 13 00-0377	EA	20'	High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,627.99 66.62 133.23 -50.69 -94.72 -196.11	480.91
26 56 13 00-0378	EA	23'	High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,842.54 72.04 144.08 -56.87 -106.54 -220.28	561.06

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0379	EA	25' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,064.71	641.21
		For Bronze Or Satin Anodized Finish, Add	78.23	
		For Black Anodized Finish, Add	156.46	
		For >10 To 20, Deduct	-63.35	
		For >20 To 40, Deduct	-118.88	
		For >40, Deduct	-245.59	
26 56 13 00-0380	EA	28' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,213.51	681.28
		For Bronze Or Satin Anodized Finish, Add	85.09	
		For Black Anodized Finish, Add	170.19	
		For >10 To 20, Deduct	-68.10	
		For >20 To 40, Deduct	-127.69	
		For >40, Deduct	-263.90	
26 56 13 00-0381	EA	30' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,364.02	721.36
		For Bronze Or Satin Anodized Finish, Add	92.13	
		For Black Anodized Finish, Add	184.26	
		For >10 To 20, Deduct	-72.92	
		For >20 To 40, Deduct	-136.63	
		For >40, Deduct	-282.47	
26 56 13 00-0382	EA	23' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,921.36	561.06
		For Bronze Or Satin Anodized Finish, Add	79.92	
		For Black Anodized Finish, Add	159.85	
		For >10 To 20, Deduct	-60.02	
		For >20 To 40, Deduct	-112.05	
		For >40, Deduct	-232.10	
26 56 13 00-0383	EA	25' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,117.26	641.21
		For Bronze Or Satin Anodized Finish, Add	83.48	
		For Black Anodized Finish, Add	166.97	
		For >10 To 20, Deduct	-65.45	
		For >20 To 40, Deduct	-122.56	
		For >40, Deduct	-253.47	
26 56 13 00-0384	EA	28' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,270.30	681.28
		For Bronze Or Satin Anodized Finish, Add	90.77	
		For Black Anodized Finish, Add	181.55	
		For >10 To 20, Deduct	-70.37	
		For >20 To 40, Deduct	-131.67	
		For >40, Deduct	-272.42	
26 56 13 00-0385	EA	30' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,452.16	721.36
		For Bronze Or Satin Anodized Finish, Add	100.94	
		For Black Anodized Finish, Add	201.89	
		For >10 To 20, Deduct	-76.45	
		For >20 To 40, Deduct	-142.80	
		For >40, Deduct	-295.69	
26 56 13 00-0386	EA	33' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,530.37	741.40
		For Bronze Or Satin Anodized Finish, Add	104.76	
		For Black Anodized Finish, Add	209.51	
		For >10 To 20, Deduct	-78.97	
		For >20 To 40, Deduct	-147.47	
		For >40, Deduct	-305.42	
26 56 13 00-0387	EA	35' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,673.01	761.43
		For Bronze Or Satin Anodized Finish, Add	115.01	
		For Black Anodized Finish, Add	230.03	
		For >10 To 20, Deduct	-84.08	
		For >20 To 40, Deduct	-156.65	
		For >40, Deduct	-324.81	
26 56 13 00-0388	EA	12' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,020.91	320.61
		For Bronze Or Satin Anodized Finish, Add	37.97	
		For Black Anodized Finish, Add	75.94	
		For >10 To 20, Deduct	-31.22	
		For >20 To 40, Deduct	-58.64	
		For >40, Deduct	-121.08	
26 56 13 00-0389	EA	14' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,141.74	360.68
		For Bronze Or Satin Anodized Finish, Add	42.04	
		For Black Anodized Finish, Add	84.08	
		For >10 To 20, Deduct	-34.85	
		For >20 To 40, Deduct	-65.49	
		For >40, Deduct	-135.19	
26 56 13 00-0390	EA	16' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,265.98	400.75
		For Bronze Or Satin Anodized Finish, Add	46.45	
		For Black Anodized Finish, Add	92.89	
		For >10 To 20, Deduct	-38.62	
		For >20 To 40, Deduct	-72.59	
		For >40, Deduct	-149.82	
26 56 13 00-0391	EA	18' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,380.88	440.83
		For Bronze Or Satin Anodized Finish, Add	49.92	
		For Black Anodized Finish, Add	99.84	
		For >10 To 20, Deduct	-42.01	
		For >20 To 40, Deduct	-79.03	
		For >40, Deduct	-163.05	
26 56 13 00-0392	EA	20' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	1,494.93	480.91
		For Bronze Or Satin Anodized Finish, Add	53.31	
		For Black Anodized Finish, Add	106.62	
		For >10 To 20, Deduct	-45.37	
		For >20 To 40, Deduct	-85.41	
		For >40, Deduct	-176.15	



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0393	EA	16'	High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,358.36 55.68 111.37 -42.31 -79.05 -163.68	400.75
26 56 13 00-0394	EA	18'	High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,489.36 60.77 121.54 -46.35 -86.62 -179.32	440.83
26 56 13 00-0395	EA	20'	High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,594.09 63.23 126.45 -49.34 -92.35 -191.02	480.91
26 56 13 00-0396	EA	23'	High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	1,825.59 70.35 140.69 -56.19 -105.35 -217.73	561.06
26 56 13 00-0397	EA	25'	High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,062.17 77.98 155.95 -63.25 -118.70 -245.20	641.21
26 56 13 00-0398	EA	23'	High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,017.13 89.50 179.00 -63.85 -118.76 -246.46	561.06
26 56 13 00-0399	EA	25'	High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,244.39 96.20 192.39 -70.54 -131.46 -272.54	641.21
26 56 13 00-0400	EA	28'	High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,407.60 104.50 209.01 -75.87 -141.28 -293.01	681.28
26 56 13 00-0401	EA	30'	High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,556.41 111.37 222.74 -80.62 -150.09 -311.33	721.36
26 56 13 00-0402	EA	33'	High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,678.69 119.59 239.18 -84.91 -157.85 -327.66	741.40
26 56 13 00-0403	EA	35'	High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,787.42 126.45 252.91 -88.65 -164.66 -341.97	761.43
26 56 13 00-0404	EA	37'	High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,882.59 131.96 263.93 -91.86 -170.52 -354.24	781.48
26 56 13 00-0405	EA	39'	High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	3,041.32 143.83 287.66 -97.61 -180.83 -376.05	801.52
26 56 13 00-0406	EA	28'	High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For >10 To 20, Deduct</i> <i>For >20 To 40, Deduct</i> <i>For >40, Deduct</i>	2,773.74 141.12 282.23 -90.51 -166.91 -347.93	681.28

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0407	EA	30' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,980.19	721.36
		For Bronze Or Satin Anodized Finish, Add	153.75	
		For Black Anodized Finish, Add	307.49	
		For >10 To 20, Deduct	-97.57	
		For >20 To 40, Deduct	-179.76	
		For >40, Deduct	-374.89	
26 56 13 00-0408	EA	33' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,119.42	741.40
		For Bronze Or Satin Anodized Finish, Add	163.66	
		For Black Anodized Finish, Add	327.32	
		For >10 To 20, Deduct	-102.53	
		For >20 To 40, Deduct	-188.70	
		For >40, Deduct	-393.77	
26 56 13 00-0409	EA	35' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,229.00	761.43
		For Bronze Or Satin Anodized Finish, Add	170.61	
		For Black Anodized Finish, Add	341.22	
		For >10 To 20, Deduct	-106.32	
		For >20 To 40, Deduct	-195.57	
		For >40, Deduct	-408.21	
26 56 13 00-0410	EA	37' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,297.04	781.48
		For Bronze Or Satin Anodized Finish, Add	173.41	
		For Black Anodized Finish, Add	346.82	
		For >10 To 20, Deduct	-108.44	
		For >20 To 40, Deduct	-199.53	
		For >40, Deduct	-416.41	
26 56 13 00-0411	EA	39' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,470.18	801.52
		For Bronze Or Satin Anodized Finish, Add	186.72	
		For Black Anodized Finish, Add	373.43	
		For >10 To 20, Deduct	-114.76	
		For >20 To 40, Deduct	-210.85	
		For >40, Deduct	-440.38	
26 56 13 00-0412	EA	28' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,657.63	681.28
		For Bronze Or Satin Anodized Finish, Add	129.51	
		For Black Anodized Finish, Add	259.01	
		For >10 To 20, Deduct	-85.87	
		For >20 To 40, Deduct	-158.78	
		For >40, Deduct	-330.52	
26 56 13 00-0413	EA	30' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,848.82	721.36
		For Bronze Or Satin Anodized Finish, Add	140.61	
		For Black Anodized Finish, Add	281.22	
		For >10 To 20, Deduct	-92.31	
		For >20 To 40, Deduct	-170.56	
		For >40, Deduct	-355.19	
26 56 13 00-0414	EA	33' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	2,927.03	741.40
		For Bronze Or Satin Anodized Finish, Add	144.42	
		For Black Anodized Finish, Add	288.85	
		For >10 To 20, Deduct	-94.84	
		For >20 To 40, Deduct	-175.24	
		For >40, Deduct	-364.91	
26 56 13 00-0415	EA	35' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,102.71	761.43
		For Bronze Or Satin Anodized Finish, Add	157.98	
		For Black Anodized Finish, Add	315.97	
		For >10 To 20, Deduct	-101.27	
		For >20 To 40, Deduct	-186.73	
		For >40, Deduct	-389.26	
26 56 13 00-0416	EA	37' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,197.03	781.48
		For Bronze Or Satin Anodized Finish, Add	163.41	
		For Black Anodized Finish, Add	326.82	
		For >10 To 20, Deduct	-104.44	
		For >20 To 40, Deduct	-192.53	
		For >40, Deduct	-401.41	
26 56 13 00-0417	EA	39' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,371.02	801.52
		For Bronze Or Satin Anodized Finish, Add	176.80	
		For Black Anodized Finish, Add	353.60	
		For >10 To 20, Deduct	-110.80	
		For >20 To 40, Deduct	-203.91	
		For >40, Deduct	-425.50	
26 56 13 00-0418	EA	28' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,188.19	681.28
		For Bronze Or Satin Anodized Finish, Add	182.56	
		For Black Anodized Finish, Add	365.12	
		For >10 To 20, Deduct	-107.09	
		For >20 To 40, Deduct	-195.92	
		For >40, Deduct	-410.10	
26 56 13 00-0419	EA	30' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,371.75	721.36
		For Bronze Or Satin Anodized Finish, Add	192.90	
		For Black Anodized Finish, Add	385.80	
		For >10 To 20, Deduct	-113.23	
		For >20 To 40, Deduct	-207.17	
		For >40, Deduct	-433.63	
26 56 13 00-0420	EA	33' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,512.68	741.40
		For Bronze Or Satin Anodized Finish, Add	202.99	
		For Black Anodized Finish, Add	405.98	
		For >10 To 20, Deduct	-118.27	
		For >20 To 40, Deduct	-216.23	
		For >40, Deduct	-452.76	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 56 13 00-0421	EA 35' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,722.27		761.43
	For Bronze Or Satin Anodized Finish, Add	219.94		
	For Black Anodized Finish, Add	439.88		
	For >10 To 20, Deduct	-126.05		
	For >20 To 40, Deduct	-230.10		
	For >40, Deduct	-482.20		
26 56 13 00-0422	EA 37' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,780.99		781.48
	For Bronze Or Satin Anodized Finish, Add	221.80		
	For Black Anodized Finish, Add	443.61		
	For >10 To 20, Deduct	-127.80		
	For >20 To 40, Deduct	-233.41		
	For >40, Deduct	-489.00		
26 56 13 00-0423	EA 39' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	3,989.73		801.52
	For Bronze Or Satin Anodized Finish, Add	238.67		
	For Black Anodized Finish, Add	477.34		
	For >10 To 20, Deduct	-135.54		
	For >20 To 40, Deduct	-247.22		
	For >40, Deduct	-518.31		
26 56 13 00-0424	EA 48' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	5,183.66		1,202.27
	For Bronze Or Satin Anodized Finish, Add	277.91		
	For Black Anodized Finish, Add	555.82		
	For >10 To 20, Deduct	-171.28		
	For >20 To 40, Deduct	-314.77		
	For >40, Deduct	-657.32		
26 56 13 00-0425	EA 50' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base	5,288.75		1,202.27
	For Bronze Or Satin Anodized Finish, Add	288.42		
	For Black Anodized Finish, Add	576.84		
	For >10 To 20, Deduct	-175.48		
	For >20 To 40, Deduct	-322.12		
	For >40, Deduct	-673.09		
26 56 13 00-0426 Round Tapered, Aluminum Area Light Poles, Hinged Anchor Base (26 56 13 00-0354)				
26 56 13 00-0427	EA 8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	902.99		240.46
	For Bronze, Satin Or Black Anodized Finish, Add	63.31		
	For >10 To 20, Deduct	-28.91		
	For >20 To 40, Deduct	-53.59		
	For >40, Deduct	-111.40		
26 56 13 00-0428	EA 10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,000.94		280.53
	For Bronze, Satin Or Black Anodized Finish, Add	65.98		
	For >10 To 20, Deduct	-31.62		
	For >20 To 40, Deduct	-58.84		
	For >40, Deduct	-122.09		
26 56 13 00-0429	EA 12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,099.73		320.61
	For Bronze, Satin Or Black Anodized Finish, Add	68.78		
	For >10 To 20, Deduct	-34.37		
	For >20 To 40, Deduct	-64.16		
	For >40, Deduct	-132.90		
26 56 13 00-0430	EA 14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,200.23		360.68
	For Bronze, Satin Or Black Anodized Finish, Add	71.83		
	For >10 To 20, Deduct	-37.19		
	For >20 To 40, Deduct	-69.59		
	For >40, Deduct	-143.97		
26 56 13 00-0431	EA 16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,299.88		400.75
	For Bronze, Satin Or Black Anodized Finish, Add	74.75		
	For >10 To 20, Deduct	-39.97		
	For >20 To 40, Deduct	-74.96		
	For >40, Deduct	-154.91		
26 56 13 00-0432	EA 10' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,011.11		280.53
	For Bronze, Satin Or Black Anodized Finish, Add	67.51		
	For >10 To 20, Deduct	-32.03		
	For >20 To 40, Deduct	-59.56		
	For >40, Deduct	-123.61		
26 56 13 00-0433	EA 12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,111.60		320.61
	For Bronze, Satin Or Black Anodized Finish, Add	70.56		
	For >10 To 20, Deduct	-34.85		
	For >20 To 40, Deduct	-64.99		
	For >40, Deduct	-134.68		
26 56 13 00-0434	EA 14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,213.79		360.68
	For Bronze, Satin Or Black Anodized Finish, Add	73.86		
	For >10 To 20, Deduct	-37.73		
	For >20 To 40, Deduct	-70.54		
	For >40, Deduct	-146.00		
26 56 13 00-0435	EA 16' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,315.14		400.75
	For Bronze, Satin Or Black Anodized Finish, Add	77.04		
	For >10 To 20, Deduct	-40.58		
	For >20 To 40, Deduct	-76.03		
	For >40, Deduct	-157.20		
26 56 13 00-0436	EA 18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,427.49		440.83
	For Bronze, Satin Or Black Anodized Finish, Add	81.87		
	For >10 To 20, Deduct	-43.87		
	For >20 To 40, Deduct	-82.29		
	For >40, Deduct	-170.04		

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0437 EA 20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,532.22	480.91
For Bronze, Satin Or Black Anodized Finish, Add	85.56	
For >10 To 20, Deduct	-46.86	
For >20 To 40, Deduct	-88.02	
For >40, Deduct	-181.74	
26 56 13 00-0438 EA 12' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,144.65	320.61
For Bronze, Satin Or Black Anodized Finish, Add	75.52	
For >10 To 20, Deduct	-36.17	
For >20 To 40, Deduct	-67.30	
For >40, Deduct	-139.64	
26 56 13 00-0439 EA 14' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,251.08	360.68
For Bronze, Satin Or Black Anodized Finish, Add	79.46	
For >10 To 20, Deduct	-39.22	
For >20 To 40, Deduct	-73.15	
For >40, Deduct	-151.59	
26 56 13 00-0440 EA 16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,367.68	400.75
For Bronze, Satin Or Black Anodized Finish, Add	84.92	
For >10 To 20, Deduct	-42.68	
For >20 To 40, Deduct	-79.71	
For >40, Deduct	-165.08	
26 56 13 00-0441 EA 18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,475.80	440.83
For Bronze, Satin Or Black Anodized Finish, Add	89.12	
For >10 To 20, Deduct	-45.81	
For >20 To 40, Deduct	-85.67	
For >40, Deduct	-177.29	
26 56 13 00-0442 EA 20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,594.94	480.91
For Bronze, Satin Or Black Anodized Finish, Add	94.97	
For >10 To 20, Deduct	-49.37	
For >20 To 40, Deduct	-92.41	
For >40, Deduct	-191.15	
26 56 13 00-0443 EA 16' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,415.99	400.75
For Bronze, Satin Or Black Anodized Finish, Add	92.17	
For >10 To 20, Deduct	-44.62	
For >20 To 40, Deduct	-83.09	
For >40, Deduct	-172.32	
26 56 13 00-0444 EA 18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,541.06	440.83
For Bronze, Satin Or Black Anodized Finish, Add	98.91	
For >10 To 20, Deduct	-48.42	
For >20 To 40, Deduct	-90.24	
For >40, Deduct	-187.08	
26 56 13 00-0445 EA 20' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,647.49	480.91
For Bronze, Satin Or Black Anodized Finish, Add	102.85	
For >10 To 20, Deduct	-51.47	
For >20 To 40, Deduct	-96.09	
For >40, Deduct	-199.03	
26 56 13 00-0446 EA 12' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,170.93	320.61
For Bronze, Satin Or Black Anodized Finish, Add	79.46	
For >10 To 20, Deduct	-37.22	
For >20 To 40, Deduct	-69.14	
For >40, Deduct	-143.58	
26 56 13 00-0447 EA 14' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,290.91	360.68
For Bronze, Satin Or Black Anodized Finish, Add	85.43	
For >10 To 20, Deduct	-40.82	
For >20 To 40, Deduct	-75.94	
For >40, Deduct	-157.57	
26 56 13 00-0448 EA 16' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,415.99	400.75
For Bronze, Satin Or Black Anodized Finish, Add	92.17	
For >10 To 20, Deduct	-44.62	
For >20 To 40, Deduct	-83.09	
For >40, Deduct	-172.32	
26 56 13 00-0449 EA 18' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,530.89	440.83
For Bronze, Satin Or Black Anodized Finish, Add	97.38	
For >10 To 20, Deduct	-48.01	
For >20 To 40, Deduct	-89.53	
For >40, Deduct	-185.55	
26 56 13 00-0450 EA 20' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,651.73	480.91
For Bronze, Satin Or Black Anodized Finish, Add	103.49	
For >10 To 20, Deduct	-51.64	
For >20 To 40, Deduct	-96.38	
For >40, Deduct	-199.67	
26 56 13 00-0451 EA 16' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,471.08	400.75
For Bronze, Satin Or Black Anodized Finish, Add	100.43	
For >10 To 20, Deduct	-46.82	
For >20 To 40, Deduct	-86.95	
For >40, Deduct	-180.59	
26 56 13 00-0452 EA 18' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,602.94	440.83
For Bronze, Satin Or Black Anodized Finish, Add	108.19	
For >10 To 20, Deduct	-50.89	
For >20 To 40, Deduct	-94.57	
For >40, Deduct	-196.36	
26 56 13 00-0453 EA 20' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base	1,713.60	480.91
For Bronze, Satin Or Black Anodized Finish, Add	112.77	
For >10 To 20, Deduct	-54.12	
For >20 To 40, Deduct	-100.72	
For >40, Deduct	-208.95	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0454			Round Tapered, Aluminum Area Light Poles, Direct Burial (26 56 13 00-0354) Note: Includes rubberized undercoating on embedded portion.		
26 56 13 00-0455	EA		8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	651.62	200.38
			For Bronze Or Satin Anodized Finish, Add	25.09	
			For Black Anodized Finish, Add	50.17	
			For >10 To 20, Deduct	-20.05	
			For >20 To 40, Deduct	-37.60	
			For >40, Deduct	-77.71	
26 56 13 00-0456	EA		10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	675.36	200.38
			For Bronze Or Satin Anodized Finish, Add	27.46	
			For Black Anodized Finish, Add	54.92	
			For >10 To 20, Deduct	-21.00	
			For >20 To 40, Deduct	-39.26	
			For >40, Deduct	-81.27	
26 56 13 00-0457	EA		12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	734.93	220.41
			For Bronze Or Satin Anodized Finish, Add	29.41	
			For Black Anodized Finish, Add	58.82	
			For >10 To 20, Deduct	-22.78	
			For >20 To 40, Deduct	-42.63	
			For >40, Deduct	-88.20	
26 56 13 00-0458	EA		14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	788.57	240.46
			For Bronze Or Satin Anodized Finish, Add	30.77	
			For Black Anodized Finish, Add	61.53	
			For >10 To 20, Deduct	-24.33	
			For >20 To 40, Deduct	-45.58	
			For >40, Deduct	-94.24	
26 56 13 00-0459	EA		16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	819.08	240.46
			For Bronze Or Satin Anodized Finish, Add	33.82	
			For Black Anodized Finish, Add	67.63	
			For >10 To 20, Deduct	-25.55	
			For >20 To 40, Deduct	-47.72	
			For >40, Deduct	-98.82	
26 56 13 00-0460	EA		12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	757.81	220.41
			For Bronze Or Satin Anodized Finish, Add	31.70	
			For Black Anodized Finish, Add	63.40	
			For >10 To 20, Deduct	-23.70	
			For >20 To 40, Deduct	-44.23	
			For >40, Deduct	-91.63	
26 56 13 00-0461	EA		14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	821.63	240.46
			For Bronze Or Satin Anodized Finish, Add	34.07	
			For Black Anodized Finish, Add	68.14	
			For >10 To 20, Deduct	-25.65	
			For >20 To 40, Deduct	-47.90	
			For >40, Deduct	-99.20	
26 56 13 00-0462	EA		16' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	838.58	240.46
			For Bronze Or Satin Anodized Finish, Add	35.77	
			For Black Anodized Finish, Add	71.53	
			For >10 To 20, Deduct	-26.33	
			For >20 To 40, Deduct	-49.08	
			For >40, Deduct	-101.74	
26 56 13 00-0463	EA		18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	905.78	260.49
			For Bronze Or Satin Anodized Finish, Add	38.48	
			For Black Anodized Finish, Add	76.96	
			For >10 To 20, Deduct	-28.42	
			For >20 To 40, Deduct	-52.98	
			For >40, Deduct	-109.82	
26 56 13 00-0464	EA		20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	969.58	280.53
			For Bronze Or Satin Anodized Finish, Add	40.85	
			For Black Anodized Finish, Add	81.70	
			For >10 To 20, Deduct	-30.37	
			For >20 To 40, Deduct	-56.65	
			For >40, Deduct	-117.38	
26 56 13 00-0465	EA		16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	887.73	240.46
			For Bronze Or Satin Anodized Finish, Add	40.68	
			For Black Anodized Finish, Add	81.36	
			For >10 To 20, Deduct	-28.30	
			For >20 To 40, Deduct	-52.52	
			For >40, Deduct	-109.11	
26 56 13 00-0466	EA		18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	960.02	260.49
			For Bronze Or Satin Anodized Finish, Add	43.90	
			For Black Anodized Finish, Add	87.81	
			For >10 To 20, Deduct	-30.59	
			For >20 To 40, Deduct	-56.78	
			For >40, Deduct	-117.95	
26 56 13 00-0467	EA		20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,028.06	280.53
			For Bronze Or Satin Anodized Finish, Add	46.70	
			For Black Anodized Finish, Add	93.40	
			For >10 To 20, Deduct	-32.71	
			For >20 To 40, Deduct	-60.74	
			For >40, Deduct	-126.16	
26 56 13 00-0468	EA		18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,029.52	260.49
			For Bronze Or Satin Anodized Finish, Add	50.85	
			For Black Anodized Finish, Add	101.71	
			For >10 To 20, Deduct	-33.37	
			For >20 To 40, Deduct	-61.65	
			For >40, Deduct	-128.38	

26 Electrical**26 50 Lighting****26 56 Exterior Lighting**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0469	EA	25' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,308.23	320.61
		For Bronze Or Satin Anodized Finish, Add	66.70	
		For Black Anodized Finish, Add	133.40	
		For >10 To 20, Deduct	-42.71	
		For >20 To 40, Deduct	-78.75	
		For >40, Deduct	-164.17	
26 56 13 00-0470	EA	25' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,404.01	320.61
		For Bronze Or Satin Anodized Finish, Add	76.28	
		For Black Anodized Finish, Add	152.56	
		For >10 To 20, Deduct	-46.54	
		For >20 To 40, Deduct	-85.46	
		For >40, Deduct	-178.54	
26 56 13 00-0471	EA	30' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,566.37	360.68
		For Bronze Or Satin Anodized Finish, Add	84.50	
		For Black Anodized Finish, Add	169.00	
		For >10 To 20, Deduct	-51.83	
		For >20 To 40, Deduct	-95.22	
		For >40, Deduct	-198.89	
26 56 13 00-0472	EA	30' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,670.62	360.68
		For Bronze Or Satin Anodized Finish, Add	94.93	
		For Black Anodized Finish, Add	189.85	
		For >10 To 20, Deduct	-56.00	
		For >20 To 40, Deduct	-102.52	
		For >40, Deduct	-214.53	
26 56 13 00-0473		Square Straight, Aluminum Area Light Poles (26 56 13 00-0294)		
26 56 13 00-0474		Square Straight, Aluminum Area Light Poles, Anchor Base (26 56 13 00-0473)		
26 56 13 00-0475	EA	8' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	830.95	240.46
		For Bronze Or Satin Anodized Finish, Add	35.00	
		For Black Anodized Finish, Add	70.01	
		For >10 To 20, Deduct	-26.02	
		For >20 To 40, Deduct	-48.55	
		For >40, Deduct	-100.60	
26 56 13 00-0476	EA	10' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	928.90	280.53
		For Bronze Or Satin Anodized Finish, Add	36.78	
		For Black Anodized Finish, Add	73.57	
		For >10 To 20, Deduct	-28.74	
		For >20 To 40, Deduct	-53.80	
		For >40, Deduct	-111.28	
26 56 13 00-0477	EA	12' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,033.63	320.61
		For Bronze Or Satin Anodized Finish, Add	39.24	
		For Black Anodized Finish, Add	78.48	
		For >10 To 20, Deduct	-31.73	
		For >20 To 40, Deduct	-59.53	
		For >40, Deduct	-122.98	
26 56 13 00-0478	EA	14' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,137.51	360.68
		For Bronze Or Satin Anodized Finish, Add	41.62	
		For Black Anodized Finish, Add	83.23	
		For >10 To 20, Deduct	-34.68	
		For >20 To 40, Deduct	-65.20	
		For >40, Deduct	-134.56	
26 56 13 00-0479	EA	15' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,192.83	380.72
		For Bronze Or Satin Anodized Finish, Add	43.14	
		For Black Anodized Finish, Add	86.28	
		For >10 To 20, Deduct	-36.29	
		For >20 To 40, Deduct	-68.27	
		For >40, Deduct	-140.85	
26 56 13 00-0480	EA	16' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,248.18	400.75
		For Bronze Or Satin Anodized Finish, Add	44.67	
		For Black Anodized Finish, Add	89.33	
		For >10 To 20, Deduct	-37.90	
		For >20 To 40, Deduct	-71.34	
		For >40, Deduct	-147.15	
26 56 13 00-0481	EA	18' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,357.15	440.83
		For Bronze Or Satin Anodized Finish, Add	47.55	
		For Black Anodized Finish, Add	95.10	
		For >10 To 20, Deduct	-41.06	
		For >20 To 40, Deduct	-77.37	
		For >40, Deduct	-159.49	
26 56 13 00-0482	EA	20' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	1,473.74	480.91
		For Bronze Or Satin Anodized Finish, Add	51.19	
		For Black Anodized Finish, Add	102.38	
		For >10 To 20, Deduct	-44.52	
		For >20 To 40, Deduct	-83.93	
		For >40, Deduct	-172.97	
26 56 13 00-0483	EA	16' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	1,306.66	400.75
		For Bronze Or Satin Anodized Finish, Add	50.51	
		For Black Anodized Finish, Add	101.03	
		For >10 To 20, Deduct	-40.24	
		For >20 To 40, Deduct	-75.44	
		For >40, Deduct	-155.92	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0484	EA	18' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	1,417.32	440.83
		For Bronze Or Satin Anodized Finish, Add	.....	53.57	
		For Black Anodized Finish, Add	.....	107.13	
		For >10 To 20, Deduct	.....	-43.47	
		For >20 To 40, Deduct	.....	-81.58	
		For >40, Deduct	.....	-168.51	
26 56 13 00-0485	EA	20' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	1,539.00	480.91
		For Bronze Or Satin Anodized Finish, Add	.....	57.72	
		For Black Anodized Finish, Add	.....	115.44	
		For >10 To 20, Deduct	.....	-47.13	
		For >20 To 40, Deduct	.....	-88.49	
		For >40, Deduct	.....	-182.76	
26 56 13 00-0486	EA	15' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	1,447.10	380.72
		For Bronze Or Satin Anodized Finish, Add	.....	68.57	
		For Black Anodized Finish, Add	.....	137.13	
		For >10 To 20, Deduct	.....	-46.46	
		For >20 To 40, Deduct	.....	-86.07	
		For >40, Deduct	.....	-178.99	
26 56 13 00-0487	EA	20' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	1,782.25	480.91
		For Bronze Or Satin Anodized Finish, Add	.....	82.04	
		For Black Anodized Finish, Add	.....	164.09	
		For >10 To 20, Deduct	.....	-56.86	
		For >20 To 40, Deduct	.....	-105.52	
		For >40, Deduct	.....	-219.25	
26 56 13 00-0488	EA	25' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	2,208.79	641.21
		For Bronze Or Satin Anodized Finish, Add	.....	92.64	
		For Black Anodized Finish, Add	.....	185.27	
		For >10 To 20, Deduct	.....	-69.12	
		For >20 To 40, Deduct	.....	-128.97	
		For >40, Deduct	.....	-267.20	
26 56 13 00-0489	EA	20' High, 4" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	1,591.55	480.91
		For Bronze Or Satin Anodized Finish, Add	.....	62.97	
		For Black Anodized Finish, Add	.....	125.95	
		For >10 To 20, Deduct	.....	-49.23	
		For >20 To 40, Deduct	.....	-92.17	
		For >40, Deduct	.....	-190.64	
26 56 13 00-0490	EA	20' High, 5" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	1,884.80	480.91
		For Bronze Or Satin Anodized Finish, Add	.....	92.30	
		For Black Anodized Finish, Add	.....	184.60	
		For >10 To 20, Deduct	.....	-60.96	
		For >20 To 40, Deduct	.....	-112.70	
		For >40, Deduct	.....	-234.63	
26 56 13 00-0491	EA	25' High, 5" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	2,302.02	641.21
		For Bronze Or Satin Anodized Finish, Add	.....	101.96	
		For Black Anodized Finish, Add	.....	203.92	
		For >10 To 20, Deduct	.....	-72.84	
		For >20 To 40, Deduct	.....	-135.49	
		For >40, Deduct	.....	-281.18	
26 56 13 00-0492	EA	20' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	2,045.84	480.91
		For Bronze Or Satin Anodized Finish, Add	.....	108.40	
		For Black Anodized Finish, Add	.....	216.80	
		For >10 To 20, Deduct	.....	-67.41	
		For >20 To 40, Deduct	.....	-123.97	
		For >40, Deduct	.....	-258.79	
26 56 13 00-0493	EA	25' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	2,512.22	641.21
		For Bronze Or Satin Anodized Finish, Add	.....	122.98	
		For Black Anodized Finish, Add	.....	245.96	
		For >10 To 20, Deduct	.....	-81.25	
		For >20 To 40, Deduct	.....	-150.21	
		For >40, Deduct	.....	-312.71	
26 56 13 00-0494	EA	30' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base	.....	2,891.19	721.36
		For Bronze Or Satin Anodized Finish, Add	.....	144.85	
		For Black Anodized Finish, Add	.....	289.69	
		For >10 To 20, Deduct	.....	-94.01	
		For >20 To 40, Deduct	.....	-173.53	
		For >40, Deduct	.....	-361.54	
26 56 13 00-0495		Square Straight, Aluminum Area Light Poles, Direct Burial	(26 56 13 00-0473)		
		Note: Includes rubberized undercoating on embedded portion.			
26 56 13 00-0496	EA	10' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial	.....	734.68	200.38
		For Bronze Or Satin Anodized Finish, Add	.....	33.39	
		For Black Anodized Finish, Add	.....	66.79	
		For >10 To 20, Deduct	.....	-23.38	
		For >20 To 40, Deduct	.....	-43.41	
		For >40, Deduct	.....	-90.16	
26 56 13 00-0497	EA	12' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial	.....	817.99	220.41
		For Bronze Or Satin Anodized Finish, Add	.....	37.72	
		For Black Anodized Finish, Add	.....	75.43	
		For >10 To 20, Deduct	.....	-26.11	
		For >20 To 40, Deduct	.....	-48.44	
		For >40, Deduct	.....	-100.66	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0498	EA	14' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial	875.87	240.46
		For Bronze Or Satin Anodized Finish, Add	39.50	
		For Black Anodized Finish, Add	78.99	
		For >10 To 20, Deduct	-27.82	
		For >20 To 40, Deduct	-51.69	
		For >40, Deduct	-107.34	
26 56 13 00-0499	EA	15' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial	897.06	240.46
		For Bronze Or Satin Anodized Finish, Add	41.62	
		For Black Anodized Finish, Add	83.23	
		For >10 To 20, Deduct	-28.67	
		For >20 To 40, Deduct	-53.18	
		For >40, Deduct	-110.51	
26 56 13 00-0500	EA	16' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial	923.33	240.46
		For Bronze Or Satin Anodized Finish, Add	44.24	
		For Black Anodized Finish, Add	88.48	
		For >10 To 20, Deduct	-29.72	
		For >20 To 40, Deduct	-55.01	
		For >40, Deduct	-114.45	
26 56 13 00-0501	EA	18' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial	1,053.25	260.49
		For Bronze Or Satin Anodized Finish, Add	53.23	
		For Black Anodized Finish, Add	106.45	
		For >10 To 20, Deduct	-34.32	
		For >20 To 40, Deduct	-63.31	
		For >40, Deduct	-131.94	
26 56 13 00-0502	EA	20' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial	1,129.77	280.53
		For Bronze Or Satin Anodized Finish, Add	56.87	
		For Black Anodized Finish, Add	113.74	
		For >10 To 20, Deduct	-36.77	
		For >20 To 40, Deduct	-67.86	
		For >40, Deduct	-141.41	
26 56 13 00-0503	EA	20' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial	1,262.83	280.53
		For Bronze Or Satin Anodized Finish, Add	70.18	
		For Black Anodized Finish, Add	140.35	
		For >10 To 20, Deduct	-42.10	
		For >20 To 40, Deduct	-77.18	
		For >40, Deduct	-161.37	
26 56 13 00-0504	EA	25' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial	1,449.77	320.61
		For Bronze Or Satin Anodized Finish, Add	80.86	
		For Black Anodized Finish, Add	161.71	
		For >10 To 20, Deduct	-48.37	
		For >20 To 40, Deduct	-88.66	
		For >40, Deduct	-185.41	
26 56 13 00-0505	EA	25' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Direct Burial	1,747.26	320.61
		For Bronze Or Satin Anodized Finish, Add	110.61	
		For Black Anodized Finish, Add	221.21	
		For >10 To 20, Deduct	-60.27	
		For >20 To 40, Deduct	-109.48	
		For >40, Deduct	-230.03	
26 56 13 00-0506		Factory Accessories For Aluminum Area Light Poles (26 56 13 00-0294)		
26 56 13 00-0507	EA	1/2", 3/4" Or 1" Factory Threaded Pipe Coupling Or Nipple For Aluminum Area Light Poles	97.38	
26 56 13 00-0508	EA	Extra Handhole For Aluminum Area Light Poles	31.59	
26 56 13 00-0509	EA	Vibration Dampener For Aluminum Area Light Poles	147.31	
26 56 13 00-0510		Fiberglass Area Light Poles (26 56 13 00-0177)		
		Note: Includes UV resistant textured weave finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions and tenon top.		
26 56 13 00-0511		Round Tapered, Fiberglass Area Light Poles (26 56 13 00-0510)		
26 56 13 00-0512		Round Tapered, Fiberglass Area Light Poles, Anchor Base (26 56 13 00-0511)		
26 56 13 00-0513	EA	10' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,487.47	280.53
		For >10 To 20, Deduct	-51.08	
		For >20 To 40, Deduct	-92.90	
		For >40, Deduct	-195.07	
26 56 13 00-0514	EA	12' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,622.77	320.61
		For >10 To 20, Deduct	-55.29	
		For >20 To 40, Deduct	-100.77	
		For >40, Deduct	-211.36	
26 56 13 00-0515	EA	14' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,759.63	360.68
		For >10 To 20, Deduct	-59.56	
		For >20 To 40, Deduct	-108.75	
		For >40, Deduct	-227.88	
26 56 13 00-0516	EA	16' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,894.94	400.75
		For >10 To 20, Deduct	-63.77	
		For >20 To 40, Deduct	-116.62	
		For >40, Deduct	-244.17	
26 56 13 00-0517	EA	18' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	2,058.59	440.83
		For >10 To 20, Deduct	-69.12	
		For >20 To 40, Deduct	-126.47	
		For >40, Deduct	-264.71	



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0518	EA	20' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	2,197.04	480.91	
		For >10 To 20, Deduct	-73.45		
		For >20 To 40, Deduct	-134.56		
		For >40, Deduct	-281.47		
26 56 13 00-0519	EA	22' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	2,414.05	561.06	
		For >10 To 20, Deduct	-79.73		
		For >20 To 40, Deduct	-146.54		
		For >40, Deduct	-306.00		
26 56 13 00-0520	EA	24' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	2,629.50	641.21	
		For >10 To 20, Deduct	-85.94		
		For >20 To 40, Deduct	-158.42		
		For >40, Deduct	-330.30		
26 56 13 00-0521	EA	26' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	2,757.12	641.21	
		For >10 To 20, Deduct	-91.05		
		For >20 To 40, Deduct	-167.35		
		For >40, Deduct	-349.45		
26 56 13 00-0522	EA	28' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	2,949.13	681.28	
		For >10 To 20, Deduct	-97.53		
		For >20 To 40, Deduct	-179.19		
		For >40, Deduct	-374.24		
26 56 13 00-0523	EA	30' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	3,141.15	721.36	
		For >10 To 20, Deduct	-104.01		
		For >20 To 40, Deduct	-191.03		
		For >40, Deduct	-399.04		
26 56 13 00-0524	EA	10' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,632.42	280.53	
		For >10 To 20, Deduct	-56.88		
		For >20 To 40, Deduct	-103.05		
		For >40, Deduct	-216.81		
26 56 13 00-0525	EA	12' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,739.35	320.61	
		For >10 To 20, Deduct	-59.96		
		For >20 To 40, Deduct	-108.93		
		For >40, Deduct	-228.84		
26 56 13 00-0526	EA	14' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,847.86	360.68	
		For >10 To 20, Deduct	-63.09		
		For >20 To 40, Deduct	-114.92		
		For >40, Deduct	-241.11		
26 56 13 00-0527	EA	16' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,959.53	400.75	
		For >10 To 20, Deduct	-66.36		
		For >20 To 40, Deduct	-121.14		
		For >40, Deduct	-253.85		
26 56 13 00-0528	EA	18' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	2,079.07	440.83	
		For >10 To 20, Deduct	-69.94		
		For >20 To 40, Deduct	-127.90		
		For >40, Deduct	-267.78		
26 56 13 00-0529	EA	20' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	2,197.04	480.91	
		For >10 To 20, Deduct	-73.45		
		For >20 To 40, Deduct	-134.56		
		For >40, Deduct	-281.47		
26 56 13 00-0530	EA	22' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	2,395.15	561.06	
		For >10 To 20, Deduct	-78.97		
		For >20 To 40, Deduct	-145.22		
		For >40, Deduct	-303.17		
26 56 13 00-0531	EA	24' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	2,629.50	641.21	
		For >10 To 20, Deduct	-85.94		
		For >20 To 40, Deduct	-158.42		
		For >40, Deduct	-330.30		
26 56 13 00-0532	EA	26' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	2,683.07	641.21	
		For >10 To 20, Deduct	-88.09		
		For >20 To 40, Deduct	-162.17		
		For >40, Deduct	-338.34		
26 56 13 00-0533	EA	28' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	2,818.36	681.28	
		For >10 To 20, Deduct	-92.30		
		For >20 To 40, Deduct	-170.03		
		For >40, Deduct	-354.63		
26 56 13 00-0534	EA	30' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	2,953.66	721.36	
		For >10 To 20, Deduct	-96.51		
		For >20 To 40, Deduct	-177.90		
		For >40, Deduct	-370.91		
26 56 13 00-0535	EA	10' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,845.12	280.53	
		For >10 To 20, Deduct	-65.39		
		For >20 To 40, Deduct	-117.94		
		For >40, Deduct	-248.72		
26 56 13 00-0536	EA	12' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	1,974.11	320.61	
		For >10 To 20, Deduct	-69.35		
		For >20 To 40, Deduct	-125.36		
		For >40, Deduct	-264.06		
26 56 13 00-0537	EA	14' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	2,103.10	360.68	
		For >10 To 20, Deduct	-73.30		
		For >20 To 40, Deduct	-132.79		
		For >40, Deduct	-279.40		
26 56 13 00-0538	EA	16' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base	2,233.68	400.75	
		For >10 To 20, Deduct	-77.32		
		For >20 To 40, Deduct	-140.33		
		For >40, Deduct	-294.98		

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0539 EA 18' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,370.55	440.83
For>10 To 20, Deduct	-81.60	
For>20 To 40, Deduct	-148.31	
For>40, Deduct	-311.50	
26 56 13 00-0540 EA 20' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,516.87	480.91
For>10 To 20, Deduct	-86.25	
For>20 To 40, Deduct	-156.94	
For>40, Deduct	-329.44	
26 56 13 00-0541 EA 22' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,757.52	561.06
For>10 To 20, Deduct	-93.47	
For>20 To 40, Deduct	-170.58	
For>40, Deduct	-357.52	
26 56 13 00-0542 EA 24' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,999.75	641.21
For>10 To 20, Deduct	-100.75	
For>20 To 40, Deduct	-184.33	
For>40, Deduct	-385.84	
26 56 13 00-0543 EA 26' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,081.68	641.21
For>10 To 20, Deduct	-104.03	
For>20 To 40, Deduct	-190.07	
For>40, Deduct	-398.13	
26 56 13 00-0544 EA 28' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,291.02	681.28
For>10 To 20, Deduct	-111.20	
For>20 To 40, Deduct	-203.12	
For>40, Deduct	-425.52	
26 56 13 00-0545 EA 30' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,464.13	721.36
For>10 To 20, Deduct	-116.92	
For>20 To 40, Deduct	-213.63	
For>40, Deduct	-447.48	
26 56 13 00-0546 EA 32' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,597.16	741.40
For>10 To 20, Deduct	-121.64	
For>20 To 40, Deduct	-222.15	
For>40, Deduct	-465.43	
26 56 13 00-0547 EA 34' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,730.20	761.43
For>10 To 20, Deduct	-126.36	
For>20 To 40, Deduct	-230.66	
For>40, Deduct	-483.39	
26 56 13 00-0548 Round Tapered, Fiberglass Area Light Poles, Direct Burial (26 56 13 00-0511)		
26 56 13 00-0549 EA 10' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	930.13	200.38
For>10 To 20, Deduct	-31.19	
For>20 To 40, Deduct	-57.09	
For>40, Deduct	-119.48	
26 56 13 00-0550 EA 12' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,000.14	220.41
For>10 To 20, Deduct	-33.39	
For>20 To 40, Deduct	-61.19	
For>40, Deduct	-127.98	
26 56 13 00-0551 EA 14' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,068.58	240.46
For>10 To 20, Deduct	-35.53	
For>20 To 40, Deduct	-65.18	
For>40, Deduct	-136.24	
26 56 13 00-0552 EA 16' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,095.37	240.46
For>10 To 20, Deduct	-36.60	
For>20 To 40, Deduct	-67.06	
For>40, Deduct	-140.26	
26 56 13 00-0553 EA 18' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,179.56	260.49
For>10 To 20, Deduct	-39.37	
For>20 To 40, Deduct	-72.15	
For>40, Deduct	-150.88	
26 56 13 00-0554 EA 20' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,251.14	280.53
For>10 To 20, Deduct	-41.63	
For>20 To 40, Deduct	-76.36	
For>40, Deduct	-159.62	
26 56 13 00-0555 EA 22' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,327.46	300.56
For>10 To 20, Deduct	-44.08	
For>20 To 40, Deduct	-80.90	
For>40, Deduct	-169.06	
26 56 13 00-0556 EA 24' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,411.64	320.61
For>10 To 20, Deduct	-46.85	
For>20 To 40, Deduct	-85.99	
For>40, Deduct	-179.69	
26 56 13 00-0557 EA 26' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,562.90	320.61
For>10 To 20, Deduct	-52.90	
For>20 To 40, Deduct	-96.58	
For>40, Deduct	-202.37	
26 56 13 00-0558 EA 28' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,754.22	340.65
For>10 To 20, Deduct	-59.95	
For>20 To 40, Deduct	-109.17	
For>40, Deduct	-229.07	
26 56 13 00-0559 EA 30' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,945.55	360.68
For>10 To 20, Deduct	-67.00	
For>20 To 40, Deduct	-121.76	
For>40, Deduct	-255.76	



Electrical			26
Lighting			26 50
Exterior Lighting			26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0560	EA	10'	High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,075.08	200.38
			For >10 To 20, Deduct	-36.99	
			For >20 To 40, Deduct	-67.24	
			For >40, Deduct	-141.22	
26 56 13 00-0561	EA	12'	High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,152.97	220.41
			For >10 To 20, Deduct	-39.51	
			For >20 To 40, Deduct	-71.89	
			For >40, Deduct	-150.90	
26 56 13 00-0562	EA	14'	High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,230.86	240.46
			For >10 To 20, Deduct	-42.02	
			For >20 To 40, Deduct	-76.54	
			For >40, Deduct	-160.58	
26 56 13 00-0563	EA	16'	High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,270.25	240.46
			For >10 To 20, Deduct	-43.60	
			For >20 To 40, Deduct	-79.30	
			For >40, Deduct	-166.49	
26 56 13 00-0564	EA	18'	High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,348.14	260.49
			For >10 To 20, Deduct	-46.11	
			For >20 To 40, Deduct	-83.95	
			For >40, Deduct	-176.17	
26 56 13 00-0565	EA	20'	High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,426.03	280.53
			For >10 To 20, Deduct	-48.63	
			For >20 To 40, Deduct	-88.60	
			For >40, Deduct	-185.85	
26 56 13 00-0566	EA	22'	High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,503.92	300.56
			For >10 To 20, Deduct	-51.14	
			For >20 To 40, Deduct	-93.25	
			For >40, Deduct	-195.53	
26 56 13 00-0567	EA	24'	High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,618.04	320.61
			For >10 To 20, Deduct	-55.10	
			For >20 To 40, Deduct	-100.44	
			For >40, Deduct	-210.65	
26 56 13 00-0568	EA	26'	High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,764.56	320.61
			For >10 To 20, Deduct	-60.96	
			For >20 To 40, Deduct	-110.70	
			For >40, Deduct	-232.62	
26 56 13 00-0569	EA	28'	High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,952.73	340.65
			For >10 To 20, Deduct	-67.89	
			For >20 To 40, Deduct	-123.07	
			For >40, Deduct	-258.85	
26 56 13 00-0570	EA	30'	High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	2,139.34	360.68
			For >10 To 20, Deduct	-74.75	
			For >20 To 40, Deduct	-135.33	
			For >40, Deduct	-284.83	
26 56 13 00-0571	EA	10'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,202.69	200.38
			For >10 To 20, Deduct	-42.10	
			For >20 To 40, Deduct	-76.17	
			For >40, Deduct	-160.37	
26 56 13 00-0572	EA	12'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,271.13	220.41
			For >10 To 20, Deduct	-44.23	
			For >20 To 40, Deduct	-80.16	
			For >40, Deduct	-168.63	
26 56 13 00-0573	EA	14'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,338.00	240.46
			For >10 To 20, Deduct	-46.31	
			For >20 To 40, Deduct	-84.04	
			For >40, Deduct	-176.65	
26 56 13 00-0574	EA	16'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,364.78	240.46
			For >10 To 20, Deduct	-47.38	
			For >20 To 40, Deduct	-85.92	
			For >40, Deduct	-180.67	
26 56 13 00-0575	EA	18'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,431.65	260.49
			For >10 To 20, Deduct	-49.45	
			For >20 To 40, Deduct	-89.80	
			For >40, Deduct	-188.70	
26 56 13 00-0576	EA	20'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,500.08	280.53
			For >10 To 20, Deduct	-51.59	
			For >20 To 40, Deduct	-93.78	
			For >40, Deduct	-196.96	
26 56 13 00-0577	EA	22'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,622.08	300.56
			For >10 To 20, Deduct	-55.87	
			For >20 To 40, Deduct	-101.52	
			For >40, Deduct	-213.26	
26 56 13 00-0578	EA	24'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,762.99	320.61
			For >10 To 20, Deduct	-60.90	
			For >20 To 40, Deduct	-110.59	
			For >40, Deduct	-232.39	
26 56 13 00-0579	EA	26'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,854.37	320.61
			For >10 To 20, Deduct	-64.56	
			For >20 To 40, Deduct	-116.98	
			For >40, Deduct	-246.10	
26 56 13 00-0580	EA	28'	High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,987.39	340.65
			For >10 To 20, Deduct	-69.28	
			For >20 To 40, Deduct	-125.49	
			For >40, Deduct	-264.04	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0581 EA 30' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial..... For >10 To 20, Deduct For >20 To 40, Deduct For >40, Deduct	2,120.43 -74.00 -134.00 -282.00	360.68
26 56 13 00-0582 Factory Accessories For Fiberglass Area Light Poles (26 56 13 00-0510)		
26 56 13 00-0583 EA Open Or Capped Top For Fiberglass Area Light Poles.....	55.86	
26 56 13 00-0584 EA Factory Side Drilling Up To Four Fixtures On Fiberglass Area Light Poles.....	55.86	
26 56 13 00-0585 EA Smooth Shaft Finish For Fiberglass Area Light Poles.....	105.99	
26 56 13 00-0586 EA Vibration Dampener For Fiberglass Area Light Poles.....	140.37	
26 56 13 00-0587 Concrete Area Light Poles (26 56 13 00-0177)		
26 56 13 00-0588 Octagonal Tapered, Spun Concrete Area Light Poles, Anchor Base (26 56 13 00-0587)		
26 56 13 00-0589 EA 28' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	2,838.73	681.28
26 56 13 00-0590 EA 30' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	2,992.70	721.36
26 56 13 00-0591 EA 33' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	3,104.86	741.40
26 56 13 00-0592 EA 36' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	3,872.38	761.43
26 56 13 00-0593 EA 38' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	4,304.94	801.52
26 56 13 00-0594 EA 43' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	5,324.66	1,041.96
26 56 13 00-0595 EA 47' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	6,376.40	1,282.42
26 56 13 00-0596 EA 27' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base..... Note: Polished brown with acrylic coating finish.	6,222.60	681.28
26 56 13 00-0597 EA 30' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base..... Note: Polished brown with acrylic coating finish.	7,186.42	721.36
26 56 13 00-0598 EA Pole Adapter Base Plate, Galvanized Steel, 1" Thick For Adapting Up To 40'.....	741.91	240.46
26 56 13 00-0599 EA 13' High Concrete Octagonal Area Light Pole, Pink With Acrylic Coating, Finish Design.....	3,730.81	480.75
26 56 13 00-0600 EA Pole Base Cover For All Octagon Poles.....	288.21	98.10
26 56 13 00-0601 EA Pole Arms 24" Long, Square, 250 Watt Fixture, Dark, Architectural Bronze.....	590.06	196.21
26 56 13 00-0602 Tapered, Spun Concrete Area Light Poles, Direct Burial (26 56 13 00-0587)		
Note: Round or square.		
26 56 13 00-0603 EA 13' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	3,079.65	320.61
26 56 13 00-0604 EA 16' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	3,477.11	400.75
26 56 13 00-0605 EA 18' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	3,836.70	480.91
26 56 13 00-0606 EA 30' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	5,342.17	721.36
26 56 13 00-0607 EA 35' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	6,165.50	761.43
26 56 13 00-0608 EA 40' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	7,056.00	801.52
26 56 13 00-0609 EA 45' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	8,171.28	1,041.96
26 56 13 00-0610 Round Tapered, Spun Concrete Area Light Poles, Direct Burial (26 56 13 00-0587)		
26 56 13 00-0611 EA 60' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C2 60 9-22).....	18,482.69	1,803.41
26 56 13 00-0612 EA 70' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C2 70 9-24).....	22,009.53	2,213.13
26 56 13 00-0613 EA 80' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C1 80 9-26).....	26,152.71	2,989.67
26 56 13 00-0614 Treated Wood Area Light Poles (26 56 13 00-0177)		
See CSI section 26 05 46 00-0001 for wood poles.		
26 56 13 00-0615 Cast Iron Decorative Light Posts (26 56 13 00-0177)		
26 56 13 00-0616 Round Tapered, Cast Iron Decorative Light Post, Anchor Base (26 56 13 00-0615)		
Note: As manufactured by Hadco and King Luminaries or an approved equal.		
26 56 13 00-0617 EA 10' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base.....	1,799.69	200.38
26 56 13 00-0618 EA 12' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base.....	1,897.76	230.84
26 56 13 00-0619 EA 14' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base.....	2,058.02	240.46
26 56 13 00-0620 EA 16' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base.....	2,528.72	280.53
26 56 13 00-0621 EA 18' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base.....	2,953.66	304.58
26 56 13 00-0622 EA 20' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base.....	3,399.15	328.62
26 56 13 00-0623 Landscape Light Poles (26 56 13 00-0001)		
Note: Excludes lighting fixtures.		
26 56 13 00-0624 Aluminum Landscape Light Poles (26 56 13 00-0623)		
Note: Includes painted finish.		
26 56 13 00-0625 Round Straight, Aluminum Landscape Light Poles (26 56 13 00-0624)		
26 56 13 00-0626 Round Straight, Aluminum Landscape Light Poles, Anchor Base (26 56 13 00-0625)		
26 56 13 00-0627 EA 7' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Anchor Base.....	556.33	240.46
26 56 13 00-0628 EA 12' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Anchor Base.....	879.91	320.61
26 56 13 00-0629 Round Straight, Aluminum Landscape Light Poles, Direct Burial (26 56 13 00-0625)		
26 56 13 00-0630 EA 7' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Direct Burial.....	520.84	240.46
26 56 13 00-0631 EA 12' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Direct Burial.....	844.42	320.61



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
26 56 13 00-0632	Steel Landscape Light Poles (26 56 13 00-0623)				
Note: Includes painted finish.					
26 56 13 00-0633	Round Straight, Steel Landscape Light Poles (26 56 13 00-0632)				
26 56 13 00-0634	Round Straight, Steel Landscape Light Poles, Anchor Base (26 56 13 00-0633)				
26 56 13 00-0635	EA 6'-8" High, 3" OD, Round Straight, Steel Landscape Light Pole, Anchor Base.....	647.15		240.46	
26 56 13 00-0636	Round Straight, Steel Landscape Light Poles, Direct Burial (26 56 13 00-0633)				
26 56 13 00-0637	EA 6'-8" High, 3" OD, Round Straight, Steel Landscape Light Pole, Direct Burial.....	609.91		240.46	
26 56 13 00-0638	Light Pole Brackets And Arms (26 56 13 00-0001)				
26 56 13 00-0639	Light Pole Brackets (26 56 13 00-0638)				
26 56 13 00-0640	Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0639)				
26 56 13 00-0641	Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0640)				
26 56 13 00-0642	Steel, Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0641)				
Note: Includes powdercoat finish.					
26 56 13 00-0643	EA Two Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket.....	762.87		48.09	
	For Galvanized Finish, Add	66.67			
26 56 13 00-0644	EA Three Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket.....	964.01		48.09	
	For Galvanized Finish, Add	86.78			
26 56 13 00-0645	EA Three Tenons At 120 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket.....	1,025.41		48.09	
	For Galvanized Finish, Add	92.92			
26 56 13 00-0646	EA Four Tenons At 90 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket.....	1,404.41		48.09	
	For Galvanized Finish, Add	130.82			
26 56 13 00-0647	EA Four Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket.....	1,463.43		48.09	
	For Galvanized Finish, Add	136.72			
26 56 13 00-0648	Aluminum, Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0641)				
Note: Includes satin brushed or painted finish.					
26 56 13 00-0649	EA Two Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket.....	234.34		48.09	
	For Bronze Or Satin Anodized Finish, Add	13.82			
	For Black Anodized Finish, Add	27.63			
26 56 13 00-0650	EA Three Tenons At 120 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket.....	278.41		48.09	
	For Bronze Or Satin Anodized Finish, Add	18.22			
	For Black Anodized Finish, Add	36.44			
26 56 13 00-0651	EA Three Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket.....	290.28		48.09	
	For Bronze Or Satin Anodized Finish, Add	19.41			
	For Black Anodized Finish, Add	38.82			
26 56 13 00-0652	EA Four Tenons At 90 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket.....	331.81		48.09	
	For Bronze Or Satin Anodized Finish, Add	23.56			
	For Black Anodized Finish, Add	47.12			
26 56 13 00-0653	EA Four Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket.....	340.28		48.09	
	For Bronze Or Satin Anodized Finish, Add	24.41			
	For Black Anodized Finish, Add	48.82			
26 56 13 00-0654	Square Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0640)				
26 56 13 00-0655	Steel, Square Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0654)				
Note: Includes powdercoat finish.					
26 56 13 00-0656	EA Two Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket.....	820.30		48.09	
	For Galvanized Finish, Add	72.41			
26 56 13 00-0657	EA Three Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket.....	1,012.97		48.09	
	For Galvanized Finish, Add	91.68			
26 56 13 00-0658	EA Four Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket.....	1,239.26		48.09	
	For Galvanized Finish, Add	114.31			
26 56 13 00-0659	EA Four Tenons At 90 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket.....	1,466.60		48.09	
	For Galvanized Finish, Add	137.04			
26 56 13 00-0660	Wood Pole Clamp On Style, Pole Top Area Light Brackets (26 56 13 00-0639)				
26 56 13 00-0661	Steel, Wood Pole Clamp On Style, Pole Top Area Light Brackets (26 56 13 00-0660)				
Note: Includes powdercoat finish.					
26 56 13 00-0662	EA One Tenon, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket.....	776.96		80.15	
26 56 13 00-0663	EA Two Tenons At 90, 120 Or 180 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket.....	1,171.30		80.15	
26 56 13 00-0664	EA Three Tenons At 120 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket.....	1,637.90		80.15	
26 56 13 00-0665	EA Four Tenons At 90 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket.....	1,791.40		80.15	
26 56 13 00-0666	Light Pole Arms (26 56 13 00-0638)				
26 56 13 00-0667	Wood Pole Streetlight Arms (26 56 13 00-0666)				
26 56 13 00-0668	Steel, Wood Pole Streetlight Arms (26 56 13 00-0667)				
26 56 13 00-0669	EA 1-1/4" Arm Diameter, 2-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	451.81		72.14	
26 56 13 00-0670	EA 1-1/4" Arm Diameter, 3-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	478.16		80.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0671 EA 1-1/4" Arm Diameter, 5-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount	554.50	100.19
26 56 13 00-0672 EA 2" Arm Diameter, 3-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount	667.13	80.15
26 56 13 00-0673 EA 2" Arm Diameter, 5-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount	742.93	100.19
26 56 13 00-0674 EA 2" Arm Diameter, 7-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount	901.85	120.22
26 56 13 00-0675 Aluminum, Wood Pole Streetlight Arms (26 56 13 00-0667)		
26 56 13 00-0676 EA 1-1/4" Arm Diameter, 42" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount	255.20	80.15
26 56 13 00-0677 EA 2" Arm Diameter, 42" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount	303.88	80.15
26 56 13 00-0678 EA 2" Arm Diameter, 66" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount	401.79	100.19
26 56 13 00-0679 EA 2" Arm Diameter, 90" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount	519.86	120.22
26 56 13 00-0680 Area Light Arms (26 56 13 00-0666)		
26 56 13 00-0681 Steel Area Light Arms (26 56 13 00-0680)		
26 56 13 00-0682 EA Single, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arm, Hub Mount	863.40	80.15
26 56 13 00-0683 EA Two, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount	1,354.58	88.17
26 56 13 00-0684 EA Three, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount	1,505.18	96.19
26 56 13 00-0685 EA Four, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount	1,787.62	104.20
26 56 13 00-0686 EA Single, 2.38" Arm Diameter, 6' Arm Length, Upsweep Style, Steel Area Light Arm, Hub Mount	1,029.82	100.19
26 56 13 00-0687 EA Two, 2.38" Arm Diameter, 6' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount	1,471.55	108.20
26 56 13 00-0688 Aluminum Area Light Arms (26 56 13 00-0680)		
26 56 13 00-0689 EA Single, 4' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount	298.45	80.15
26 56 13 00-0690 EA Single, 6' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount	369.04	100.19
26 56 13 00-0691 EA Single, 8' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount	441.33	120.22
26 56 13 00-0692 EA Single, 4' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount	296.76	80.15
26 56 13 00-0693 EA Two, 4' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount	404.33	88.17
26 56 13 00-0694 EA Single, 6' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount	365.65	100.19
26 56 13 00-0695 EA Two, 6' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount	493.56	108.20
26 56 13 00-0696 EA Single, 8' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount	443.02	120.22
26 56 13 00-0697 EA Two, 8' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount	597.20	128.24
26 56 13 00-0698 Removal And Reinstallation Of Lighting Pole (26 56 13 00-0001)		
26 56 13 00-0699 EA Removal And Relocation Of Up To 45' Lighting Pole And Standards With One Or Two Arms	2,645.25	
26 56 13 00-0700 High Mast Lighting (26 56 13 00-0001)		
26 56 13 00-0701 High Mast Lighting Assemblies (26 56 13 00-0700)		
Note: Includes non-latching system, ring assembly with internal bumper, acrylic top cover, pulley supports, cast arm filter for pipe tension, transition assembly, standard head frame assembly, standard hoist, and powder coated pole.		
26 56 13 00-0702 EA 60' High Mast Lighting Assembly	55,606.57	2,456.65
26 56 13 00-0703 EA 70' High Mast Lighting Assembly	58,733.19	2,572.98
26 56 13 00-0704 EA 80' High Mast Lighting Assembly	61,905.55	2,741.02
26 56 13 00-0705 EA 90' High Mast Lighting Assembly	65,121.80	2,960.78
26 56 13 00-0706 EA 100' High Mast Lighting Assembly	68,364.37	3,232.16
26 56 13 00-0707 EA 110' High Mast Lighting Assembly	72,537.87	3,555.62
26 56 13 00-0708 EA 120' High Mast Lighting Assembly	75,920.68	3,878.81
26 56 13 00-0709 EA 130' High Mast Lighting Assembly	79,050.14	4,202.01
26 56 13 00-0710 EA 140' High Mast Lighting Assembly	82,432.95	4,525.36
26 56 13 00-0711 EA 150' High Mast Lighting Assembly	86,532.62	4,848.55
26 56 13 00-0712 High Mast Light Poles (26 56 13 00-0700)		
26 56 13 00-0713 EA 60' High Mast Light Poles	21,364.05	1,475.42
26 56 13 00-0714 EA 70' High Mast Light Poles	24,455.71	1,545.31
26 56 13 00-0715 EA 80' High Mast Light Poles	27,577.60	1,646.26
26 56 13 00-0716 EA 90' High Mast Light Poles	30,727.83	1,778.27
26 56 13 00-0717 EA 100' High Mast Light Poles	33,908.29	1,941.34
26 56 13 00-0718 EA 110' High Mast Light Poles	37,118.97	2,135.48
26 56 13 00-0719 EA 120' High Mast Light Poles	39,560.24	2,329.62
26 56 13 00-0720 EA 130' High Mast Light Poles	39,222.54	4,317.56
26 56 13 00-0721 EA 140' High Mast Light Poles	44,187.56	2,717.89
26 56 13 00-0722 EA 150' High Mast Light Poles	46,884.05	2,912.02
26 56 13 00-0723 High Mast Lighting Accessories (26 56 13 00-0700)		
26 56 13 00-0724 EA Bottom Latching System For High Mast Lighting	988.00	
26 56 13 00-0725 EA Top Latching System For High Mast Lighting	2,774.49	
26 56 13 00-0726 EA Centering Springs For High Mast Lighting	2,101.04	
26 56 13 00-0727 EA Electric Power Cord For High Mast Lighting	889.01	
26 56 13 00-0728 EA Aircraft Warning Lights For High Mast Lighting	1,666.46	
26 56 13 00-0729 EA Internal Motorized Hoist For High Mast Lighting	17,751.60	
26 56 13 00-0730 EA Portable Hoist Motor With Step Down Transformer For High Mast Lighting	17,870.36	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

26 56 13 00-0731	Concrete Bases (26 56 13 00-0001)		
26 56 13 00-0732	Concrete Bases, Cast In Place (26 56 13 00-0731)		
	Note: Includes excavation/drilling, concrete, reinforcement, forms for exposed base, anchors/supports and backfill. Excludes conduit.		
26 56 13 00-0733	EA Cast In Place Concrete Base For Poles Minimum Charge	351.61	
	Note: For projects where the cast in place concrete base for poles charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
26 56 13 00-0734	VLF 1-1/2' Diameter Concrete Base For Poles	54.72	
26 56 13 00-0735	VLF 2' Diameter Concrete Base For Poles.....	82.85	
26 56 13 00-0736	VLF 2-1/2' Diameter Concrete Base For Poles	117.85	
26 56 13 00-0737	VLF 3' Diameter Concrete Base For Poles.....	160.37	
26 56 13 00-0738	VLF 3-1/2' Diameter Concrete Base For Poles	213.70	
26 56 13 00-0739	VLF 4' Diameter Concrete Base For Poles.....	271.68	
26 56 13 00-0740	VLF 5' Diameter Concrete Base For Poles.....	403.04	
26 56 13 00-0741	VLF 6' Diameter Concrete Base For Poles.....	561.96	
26 56 19 LED Exterior Lighting (26 56)			
26 56 19 00-0001	LED, Roadway Lighting (26 56 19)		
26 56 19 00-0002	LED Roadway Lighting (Philips Lumec) (26 56 19 00-0001)		
26 56 19 00-0003	Horizontal Tenon Mount, LED Cobra Head Street Lights (Philips Lumec GPL Series) (26 56 19 00-0002)		
	Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 570mA driver, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0004	EA 49 LEDs, 102 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec GPLS Series).....	1,624.21	194.61
	For >50 To 100, Deduct	-81.21	
	For >100 To 250, Deduct	-121.62	
	For >250 To 500, Deduct	-193.30	
	For >500 To 1000, Deduct	-264.78	
	For >1000, Deduct	-336.26	
26 56 19 00-0005	EA 98 LEDs, 204 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec GPLM Series)	2,506.94	199.87
	For >50 To 100, Deduct	-125.35	
	For >100 To 250, Deduct	-188.02	
	For >250 To 500, Deduct	-303.37	
	For >500 To 1000, Deduct	-418.73	
	For >1000, Deduct	-534.08	
26 56 19 00-0006	Horizontal Tenon Mount, LED Cobra Head Street Lights (Philips Lumec RFM Series) (26 56 19 00-0002)		
	Note: UL wet listed. Includes 3,000 to 4,000K color temperature, 120-277 voltage, up to 1050mA driver, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0007	EA 48 LEDs, 55 Watt, Type III Medium, 120-277 Volt, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec RFM Series).....	1,191.71	194.61
	For >50 To 100, Deduct	-59.59	
	For >100 To 250, Deduct	-89.38	
	For >250 To 500, Deduct	-139.23	
	For >500 To 1000, Deduct	-189.09	
	For >1000, Deduct	-238.94	
26 56 19 00-0008	EA 48 LEDs, 80 Watt, Type III Medium, 120-277 Volt, RoadFocus Roadway, LED Cobra Head Luminaire (Philips Lumec RFM Series).....	1,191.71	194.61
	For >50 To 100, Deduct	-59.59	
	For >100 To 250, Deduct	-89.38	
	For >250 To 500, Deduct	-139.23	
	For >500 To 1000, Deduct	-189.09	
	For >1000, Deduct	-238.94	
26 56 19 00-0009	EA 48 LEDs, 108 Watt, Type III Medium, 120-277 Volt, RoadFocus Roadway, LED Cobra Head Luminaire (Philips Lumec RFM Series).....	1,191.71	194.61
	For >50 To 100, Deduct	-59.59	
	For >100 To 250, Deduct	-89.38	
	For >250 To 500, Deduct	-139.23	
	For >500 To 1000, Deduct	-189.09	
	For >1000, Deduct	-238.94	
26 56 19 00-0010	LED Roadway Lighting (Lithonia) (26 56 19 00-0001)		
26 56 19 00-0011	Horizontal Tenon Mount, LED Cobra Head Street Lights (Lithonia CSX1 Series) (26 56 19 00-0010)		
	Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 700mA driver, die-cast extruded aluminum housing assembly and bronze powder coat finish. Excludes sensors.		
26 56 19 00-0012	EA 30 LEDs, 74 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Lithonia CSX1 Series).....	2,332.17	184.09
	For >50 To 100, Deduct	-116.61	
	For >100 To 250, Deduct	-174.91	
	For >250 To 500, Deduct	-282.32	
	For >500 To 1000, Deduct	-389.72	
	For >1000, Deduct	-497.12	

26 Electrical**26 50 Lighting****26 56 Exterior Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0013 EA 60 LEDs, 146 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Lithonia CSX1 Series).....	3,824.26	189.35
For >50 To 100, Deduct	-191.21	
For >100 To 250, Deduct	-286.82	
For >250 To 500, Deduct	-468.57	
For >500 To 1000, Deduct	-650.31	
For >1000, Deduct	-832.06	
26 56 19 00-0014 LED Roadway Lighting (CREE® BetaLED®) (26 56 19 00-0014)		
26 56 19 00-0015 Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® BetaLED® LEDway® STR-LWY) (26 56 19 00-0014)		
Note: UL wet listed. Includes 6,000K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type II Medium, Type II Short or Type III Medium optic. Excludes sensors.		
26 56 19 00-0016 EA 20 LEDs, 25 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	920.98	178.83
For >50 To 100, Deduct	-46.05	
For >100 To 250, Deduct	-69.07	
For >250 To 500, Deduct	-106.18	
For >500 To 1000, Deduct	-143.29	
For >1000, Deduct	-180.40	
26 56 19 00-0017 EA 30 LEDs, 35 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,027.03	184.09
For >50 To 100, Deduct	-51.35	
For >100 To 250, Deduct	-77.03	
For >250 To 500, Deduct	-119.17	
For >500 To 1000, Deduct	-161.32	
For >1000, Deduct	-203.47	
26 56 19 00-0018 EA 40 LEDs, 45 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,154.49	189.35
For >50 To 100, Deduct	-57.72	
For >100 To 250, Deduct	-86.59	
For >250 To 500, Deduct	-134.84	
For >500 To 1000, Deduct	-183.10	
For >1000, Deduct	-231.36	
26 56 19 00-0019 EA 50 LEDs, 55 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,262.19	194.61
For >50 To 100, Deduct	-63.11	
For >100 To 250, Deduct	-94.66	
For >250 To 500, Deduct	-148.04	
For >500 To 1000, Deduct	-201.42	
For >1000, Deduct	-254.80	
26 56 19 00-0020 EA 60 LEDs, 65 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,369.90	199.87
For >50 To 100, Deduct	-68.50	
For >100 To 250, Deduct	-102.74	
For >250 To 500, Deduct	-161.24	
For >500 To 1000, Deduct	-219.75	
For >1000, Deduct	-278.25	
26 56 19 00-0021 EA 70 LEDs, 75 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,622.55	205.13
For >50 To 100, Deduct	-81.13	
For >100 To 250, Deduct	-121.69	
For >250 To 500, Deduct	-192.56	
For >500 To 1000, Deduct	-263.43	
For >1000, Deduct	-334.30	
26 56 19 00-0022 EA 80 LEDs, 86 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,730.25	210.39
For >50 To 100, Deduct	-86.51	
For >100 To 250, Deduct	-129.77	
For >250 To 500, Deduct	-205.76	
For >500 To 1000, Deduct	-281.75	
For >1000, Deduct	-357.75	
26 56 19 00-0023 EA 90 LEDs, 96 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	1,836.31	215.65
For >50 To 100, Deduct	-91.82	
For >100 To 250, Deduct	-137.72	
For >250 To 500, Deduct	-218.76	
For >500 To 1000, Deduct	-299.79	
For >1000, Deduct	-380.82	
26 56 19 00-0024 EA 100 LEDs, 111 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	2,041.19	220.91
For >50 To 100, Deduct	-102.06	
For >100 To 250, Deduct	-153.09	
For >250 To 500, Deduct	-244.10	
For >500 To 1000, Deduct	-335.12	
For >1000, Deduct	-426.13	
26 56 19 00-0025 EA 110 LEDs, 122 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	2,148.88	226.17
For >50 To 100, Deduct	-107.44	
For >100 To 250, Deduct	-161.17	
For >250 To 500, Deduct	-257.30	
For >500 To 1000, Deduct	-353.44	
For >1000, Deduct	-449.57	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0026	EA		120 LEDs, 133 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY).....	2,256.58	231.43
			For >50 To 100, Deduct	-112.83	
			For >100 To 250, Deduct	-169.24	
			For >250 To 500, Deduct	-270.50	
			For >500 To 1000, Deduct	-371.76	
			For >1000, Deduct	-473.02	
26 56 19 00-0027			Surface Mount, LED Transportation Fixtures (CREE® BetaLED® Edge® TSP-EDG) (26 56 19 00-0014)		
			Note: Direct, cantenary or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0028	EA		40 LEDs, 47 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	1,755.69	189.35
			For Multi-Level Drive Currents, Add	230.60	
			For >50 To 100, Deduct	-87.78	
			For >100 To 250, Deduct	-131.68	
			For >250 To 500, Deduct	-209.99	
			For >500 To 1000, Deduct	-288.31	
			For >1000, Deduct	-366.63	
26 56 19 00-0029	EA		60 LEDs, 68 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	2,018.87	199.87
			For Multi-Level Drive Currents, Add	230.60	
			For >50 To 100, Deduct	-100.94	
			For >100 To 250, Deduct	-151.42	
			For >250 To 500, Deduct	-242.37	
			For >500 To 1000, Deduct	-333.32	
			For >1000, Deduct	-424.27	
26 56 19 00-0030	EA		80 LEDs, 90 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	2,282.04	210.39
			For Multi-Level Drive Currents, Add	230.60	
			For >50 To 100, Deduct	-114.10	
			For >100 To 250, Deduct	-171.15	
			For >250 To 500, Deduct	-274.74	
			For >500 To 1000, Deduct	-378.32	
			For >1000, Deduct	-481.90	
26 56 19 00-0031	EA		100 LEDs, 111 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	2,545.21	220.91
			For Multi-Level Drive Currents, Add	230.60	
			For >50 To 100, Deduct	-127.26	
			For >100 To 250, Deduct	-190.89	
			For >250 To 500, Deduct	-307.11	
			For >500 To 1000, Deduct	-423.32	
			For >1000, Deduct	-539.54	
26 56 19 00-0032	EA		120 LEDs, 132 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	3,322.28	231.43
			For Multi-Level Drive Currents, Add	230.60	
			For >50 To 100, Deduct	-166.11	
			For >100 To 250, Deduct	-249.17	
			For >250 To 500, Deduct	-403.71	
			For >500 To 1000, Deduct	-558.26	
			For >1000, Deduct	-712.80	
26 56 19 00-0033	EA		140 LEDs, 157 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	3,585.45	241.94
			For Multi-Level Drive Currents, Add	230.60	
			For >50 To 100, Deduct	-179.27	
			For >100 To 250, Deduct	-268.91	
			For >250 To 500, Deduct	-436.08	
			For >500 To 1000, Deduct	-603.26	
			For >1000, Deduct	-770.43	
26 56 19 00-0034	EA		160 LEDs, 179 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	3,848.61	252.46
			For Multi-Level Drive Currents, Add	230.60	
			For >50 To 100, Deduct	-192.43	
			For >100 To 250, Deduct	-288.65	
			For >250 To 500, Deduct	-468.45	
			For >500 To 1000, Deduct	-648.26	
			For >1000, Deduct	-828.07	
26 56 19 00-0035			Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® BetaLED® XSP) (26 56 19 00-0014)		
			Note: UL wet listed. Includes 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0036	EA		4,806 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-B-HT-XXX-A).....	784.61	189.35
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	19.42	
			For Backlight Control Shield, Add	37.30	
			For Field Adjustable Output, Add	29.15	
			For Bird Spikes, Add	55.64	
			For Field Adjustable Output And Utility Label, Add	38.86	
			For Fuse, Add	58.28	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	58.28	
			For 480 Volt, Add	87.42	
			For Multi-Level, Add	126.26	
			For >50 To 100, Deduct	-39.23	
			For >100 To 250, Deduct	-58.85	
			For >250 To 500, Deduct	-88.61	
			For >500 To 1000, Deduct	-118.37	
			For >1000, Deduct	-148.14	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0037	EA		5,340 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-B-HT-XXX-A).....	784.61	189.35
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	19.42	
			For Backlight Control Shield, Add	37.30	
			For Field Adjustable Output, Add	29.15	
			For Bird Spikes, Add	55.64	
			For Field Adjustable Output And Utility Label, Add	38.86	
			For Fuse, Add	58.28	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	58.28	
			For 480 Volt, Add	87.42	
			For Multi-Level, Add	126.26	
			For >50 To 100, Deduct	-39.23	
			For >100 To 250, Deduct	-58.85	
			For >250 To 500, Deduct	-88.61	
			For >500 To 1000, Deduct	-118.37	
			For >1000, Deduct	-148.14	
26 56 19 00-0038	EA		8,407 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-C-HT-XXX-E).....	858.04	189.35
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	19.42	
			For Backlight Control Shield, Add	37.30	
			For Field Adjustable Output, Add	29.15	
			For Bird Spikes, Add	55.64	
			For Field Adjustable Output And Utility Label, Add	38.86	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	58.28	
			For 480 Volt, Add	87.42	
			For >50 To 100, Deduct	-42.90	
			For >100 To 250, Deduct	-64.35	
			For >250 To 500, Deduct	-97.79	
			For >500 To 1000, Deduct	-131.22	
			For >1000, Deduct	-164.66	
26 56 19 00-0039	EA		8,820 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-C-HT-XXX-E).....	858.04	189.35
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	19.42	
			For Backlight Control Shield, Add	37.30	
			For Field Adjustable Output, Add	29.15	
			For Bird Spikes, Add	55.64	
			For Field Adjustable Output And Utility Label, Add	38.86	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	58.28	
			For 480 Volt, Add	87.42	
			For >50 To 100, Deduct	-42.90	
			For >100 To 250, Deduct	-64.35	
			For >250 To 500, Deduct	-97.79	
			For >500 To 1000, Deduct	-131.22	
			For >1000, Deduct	-164.66	
26 56 19 00-0040	EA		9,612 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-B-HT-XXX-B).....	988.57	189.35
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	19.42	
			For Field Adjustable Output, Add	29.15	
			For Backlight Control Shield, Add	51.56	
			For Field Adjustable Output And Utility Label, Add	38.86	
			For Fuse, Add	58.28	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	58.28	
			For Bird Spikes, Add	88.29	
			For 480 Volt, Add	87.42	
			For Multi-Level, Add	126.26	
			For >50 To 100, Deduct	-49.43	
			For >100 To 250, Deduct	-74.14	
			For >250 To 500, Deduct	-114.10	
			For >500 To 1000, Deduct	-154.07	
			For >1000, Deduct	-194.03	
26 56 19 00-0041	EA		10,680 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-B-HT-XXX-B).....	988.57	189.35
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	19.42	
			For Field Adjustable Output, Add	29.15	
			For Backlight Control Shield, Add	51.56	
			For Field Adjustable Output And Utility Label, Add	38.86	
			For Fuse, Add	58.28	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	58.28	
			For Bird Spikes, Add	88.29	
			For 480 Volt, Add	87.42	
			For Multi-Level, Add	126.26	
			For >50 To 100, Deduct	-49.43	
			For >100 To 250, Deduct	-74.14	
			For >250 To 500, Deduct	-114.10	
			For >500 To 1000, Deduct	-154.07	
			For >1000, Deduct	-194.03	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0042	EA		13,732 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-C-HT-XXX-F).....	1,110.97	189.35
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	19.42	
			For Field Adjustable Output, Add	29.15	
			For Backlight Control Shield, Add	51.56	
			For Field Adjustable Output And Utility Label, Add	38.86	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	58.28	
			For Bird Spikes, Add	88.29	
			For 480 Volt, Add	87.42	
			For >50 To 100, Deduct	-55.55	
			For >100 To 250, Deduct	-83.32	
			For >250 To 500, Deduct	-129.40	
			For >500 To 1000, Deduct	-175.49	
			For >1000, Deduct	-221.57	
26 56 19 00-0043	EA		14,408 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-C-HT-XXX-F).....	1,110.97	189.35
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	19.42	
			For Field Adjustable Output, Add	29.15	
			For Backlight Control Shield, Add	51.56	
			For Field Adjustable Output And Utility Label, Add	38.86	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	58.28	
			For Bird Spikes, Add	88.29	
			For 480 Volt, Add	87.42	
			For >50 To 100, Deduct	-55.55	
			For >100 To 250, Deduct	-83.32	
			For >250 To 500, Deduct	-129.40	
			For >500 To 1000, Deduct	-175.49	
			For >1000, Deduct	-221.57	
26 56 19 00-0044	EA		2,529 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-G).....	654.06	189.35
			For Utility Label, Add	9.71	
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	19.42	
			For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	29.15	
			For 0 To 10 Volt Dimming, Add	58.28	
			For >50 To 100, Deduct	-32.70	
			For >100 To 250, Deduct	-49.05	
			For >250 To 500, Deduct	-72.29	
			For >500 To 1000, Deduct	-95.53	
			For >1000, Deduct	-118.76	
26 56 19 00-0045	EA		2,722 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-G).....	654.06	189.35
			For Utility Label, Add	9.71	
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	19.42	
			For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	29.15	
			For 0 To 10 Volt Dimming, Add	58.28	
			For >50 To 100, Deduct	-32.70	
			For >100 To 250, Deduct	-49.05	
			For >250 To 500, Deduct	-72.29	
			For >500 To 1000, Deduct	-95.53	
			For >1000, Deduct	-118.76	
26 56 19 00-0046	EA		3,819 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-C).....	684.66	189.35
			For Utility Label, Add	9.71	
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	19.42	
			For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	29.15	
			For 0 To 10 Volt Dimming, Add	58.28	
			For >50 To 100, Deduct	-34.23	
			For >100 To 250, Deduct	-51.35	
			For >250 To 500, Deduct	-76.12	
			For >500 To 1000, Deduct	-100.88	
			For >1000, Deduct	-125.65	
26 56 19 00-0047	EA		4,109 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-C).....	684.66	189.35
			For Utility Label, Add	9.71	
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	19.42	
			For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	29.15	
			For 0 To 10 Volt Dimming, Add	58.28	
			For >50 To 100, Deduct	-34.23	
			For >100 To 250, Deduct	-51.35	
			For >250 To 500, Deduct	-76.12	
			For >500 To 1000, Deduct	-100.88	
			For >1000, Deduct	-125.65	
26 56 19 00-0048	EA		4,548 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-B-HT-XXX-A).....	694.86	189.35
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	19.42	
			For Field Adjustable Output, Add	29.15	
			For Field Adjustable Output And Utility Label, Add	38.86	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	58.28	
			For 0 To 10 Volt Dimming, Add	58.28	
			For >50 To 100, Deduct	-34.74	
			For >100 To 250, Deduct	-52.11	
			For >250 To 500, Deduct	-77.39	
			For >500 To 1000, Deduct	-102.67	
			For >1000, Deduct	-127.94	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0049	EA		4,627 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-B-HT-XXX-A).....	694.86	189.35
			For 3 Or 7-Pin NEMA Photocell Receptacle, Add	19.42	
			For Field Adjustable Output, Add	29.15	
			For Field Adjustable Output And Utility Label, Add	38.86	
			For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	58.28	
			For 0 To 10 Volt Dimming, Add	58.28	
			For >50 To 100, Deduct	-34.74	
			For >100 To 250, Deduct	-52.11	
			For >250 To 500, Deduct	-77.39	
			For >500 To 1000, Deduct	-102.67	
			For >1000, Deduct	-127.94	
26 56 19 00-0050			Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® RSW™)		
			(26 56 19 00-0014)		
			Note: UL wet listed. Includes 120-277 voltage, die-cast extruded aluminum housing assembly and gray powder coat finish. Includes utility label and NEMA® photocell receptacle. Excludes sensors.		
26 56 19 00-0051	EA		3,300 Lumens, 3000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-XXX-30W-30K-UL-GY-N).....	674.47	189.35
			For Field Adjustable Output, Add	29.15	
			For Backlight Control Shield, Add	67.50	
			For Bird Spikes, Add	88.86	
			For >50 To 100, Deduct	-33.72	
			For >100 To 250, Deduct	-50.59	
			For >250 To 500, Deduct	-74.84	
			For >500 To 1000, Deduct	-99.10	
			For >1000, Deduct	-123.35	
26 56 19 00-0052	EA		3,300 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-XXX-30W-40K-UL-GY-N).....	674.47	189.35
			For Field Adjustable Output, Add	29.15	
			For Backlight Control Shield, Add	67.50	
			For Bird Spikes, Add	88.86	
			For >50 To 100, Deduct	-33.72	
			For >100 To 250, Deduct	-50.59	
			For >250 To 500, Deduct	-74.84	
			For >500 To 1000, Deduct	-99.10	
			For >1000, Deduct	-123.35	
26 56 19 00-0053	EA		5,000 Lumens, 3000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-2ME-50W-30K-UL-GY-N).....	694.86	189.35
			For Field Adjustable Output, Add	29.15	
			For Backlight Control Shield, Add	67.50	
			For Bird Spikes, Add	88.86	
			For >50 To 100, Deduct	-34.74	
			For >100 To 250, Deduct	-52.11	
			For >250 To 500, Deduct	-77.39	
			For >500 To 1000, Deduct	-102.67	
			For >1000, Deduct	-127.94	
26 56 19 00-0054	EA		5,000 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-2ME-50W-40K-UL-GY-N).....	694.86	189.35
			For Field Adjustable Output, Add	29.15	
			For Backlight Control Shield, Add	67.50	
			For Bird Spikes, Add	88.86	
			For >50 To 100, Deduct	-34.74	
			For >100 To 250, Deduct	-52.11	
			For >250 To 500, Deduct	-77.39	
			For >500 To 1000, Deduct	-102.67	
			For >1000, Deduct	-127.94	
26 56 19 00-0055			LED Roadway Lighting (Cooper Lighting) (26 56 19 00-0001)		
26 56 19 00-0056			Horizontal Tenon Mount, LED Roadway Fixtures (Cooper Lighting		
			Streetworks NVN™) (26 56 19 00-0055)		
			Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0057	EA		1 LED Light Square, 51 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	1,054.06	189.35
			For >50 To 100, Deduct	-52.70	
			For >100 To 250, Deduct	-79.05	
			For >250 To 500, Deduct	-122.29	
			For >500 To 1000, Deduct	-165.53	
			For >1000, Deduct	-208.76	
26 56 19 00-0058	EA		2 LED Light Squares, 103 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	1,415.93	210.39
			For >50 To 100, Deduct	-70.80	
			For >100 To 250, Deduct	-106.19	
			For >250 To 500, Deduct	-166.47	
			For >500 To 1000, Deduct	-226.75	
			For >1000, Deduct	-287.03	
26 56 19 00-0059	EA		3 LED Light Squares, 154 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	1,523.28	241.94
			For >50 To 100, Deduct	-76.16	
			For >100 To 250, Deduct	-114.25	
			For >250 To 500, Deduct	-178.31	
			For >500 To 1000, Deduct	-242.38	
			For >1000, Deduct	-306.45	



Electrical		26
Lighting		26 50
Exterior Lighting		26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0060	EA		4 LED Light Squares, 206 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	2,239.69	262.98
			For >50 To 100, Deduct	-111.98	
			For >100 To 250, Deduct	-167.98	
			For >250 To 500, Deduct	-266.81	
			For >500 To 1000, Deduct	-365.65	
			For >1000, Deduct	-464.48	
26 56 19 00-0061	EA		6 LED Light Squares, 309 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	2,924.90	299.40
			For >50 To 100, Deduct	-146.25	
			For >100 To 250, Deduct	-219.37	
			For >250 To 500, Deduct	-350.64	
			For >500 To 1000, Deduct	-481.92	
			For >1000, Deduct	-613.19	
26 56 19 00-0062			LED Roadway Lighting (PlanLED) (26 56 19 00-0001)		
26 56 19 00-0063			Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera HERA) (26 56 19 00-0062)		
			Note: UL wet listed. Includes 3,000K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0064	EA		8,500 Lumens, 85 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 85W)	1,254.84	184.09
			For >50 To 100, Deduct	-62.74	
			For >100 To 250, Deduct	-94.11	
			For >250 To 500, Deduct	-147.65	
			For >500 To 1000, Deduct	-201.19	
			For >1000, Deduct	-254.73	
26 56 19 00-0065	EA		11,000 Lumens, 110 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 110W)	1,361.03	186.11
			For >50 To 100, Deduct	-68.05	
			For >100 To 250, Deduct	-102.08	
			For >250 To 500, Deduct	-160.82	
			For >500 To 1000, Deduct	-219.57	
			For >1000, Deduct	-278.31	
26 56 19 00-0066	EA		15,000 Lumens, 150 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 150W)	1,445.13	189.35
			For >50 To 100, Deduct	-72.26	
			For >100 To 250, Deduct	-108.38	
			For >250 To 500, Deduct	-171.17	
			For >500 To 1000, Deduct	-233.96	
			For >1000, Deduct	-296.75	
26 56 19 00-0067			Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera SETA) (26 56 19 00-0062)		
			Note: UL wet listed. Includes 3,000K, 3,500K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0068	EA		7,200 Lumens, 60 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET060)	843.47	179.63
			For >50 To 100, Deduct	-42.17	
			For >100 To 250, Deduct	-63.26	
			For >250 To 500, Deduct	-96.45	
			For >500 To 1000, Deduct	-129.64	
			For >1000, Deduct	-162.83	
26 56 19 00-0069	EA		10,000 Lumens, 80 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET080)	901.01	182.87
			For >50 To 100, Deduct	-45.05	
			For >100 To 250, Deduct	-67.58	
			For >250 To 500, Deduct	-103.48	
			For >500 To 1000, Deduct	-139.39	
			For >1000, Deduct	-175.30	
26 56 19 00-0070	EA		12,500 Lumens, 100 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET100)	991.25	186.11
			For >50 To 100, Deduct	-49.56	
			For >100 To 250, Deduct	-74.34	
			For >250 To 500, Deduct	-114.60	
			For >500 To 1000, Deduct	-154.86	
			For >1000, Deduct	-195.11	
26 56 19 00-0071			Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera META) (26 56 19 00-0062)		
			Note: UL wet listed. Includes 3,000K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0072	EA		13,000 Lumens, 100 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT100)	1,050.50	186.11
			For 0 To 10 Volt Dimming, Add	88.26	
			For 347-480 Volt, Add	88.26	
			For >50 To 100, Deduct	-52.53	
			For >100 To 250, Deduct	-78.79	
			For >250 To 500, Deduct	-122.01	
			For >500 To 1000, Deduct	-165.23	
			For >1000, Deduct	-208.45	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0073 EA 16,900 Lumens, 130 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT130).....	1,159.97	187.73
For 0 To 10 Volt Dimming, Add	88.26	
For 347-480 Volt, Add	26.64	
For >50 To 100, Deduct	-58.00	
For >100 To 250, Deduct	-87.00	
For >250 To 500, Deduct	-135.61	
For >500 To 1000, Deduct	-184.22	
For >1000, Deduct	-232.83	
26 56 19 00-0074 EA 19,500 Lumens, 150 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT150).....	1,244.92	189.35
For 0 To 10 Volt Dimming, Add	88.26	
For 347-480 Volt, Add	110.30	
For >50 To 100, Deduct	-62.25	
For >100 To 250, Deduct	-93.37	
For >250 To 500, Deduct	-146.15	
For >500 To 1000, Deduct	-198.93	
For >1000, Deduct	-251.71	
26 56 19 00-0075 LED Roadway Lighting (General Electric) (26 56 19 00-0001)		
26 56 19 00-0076 Horizontal Tenon Mount, LED Cobra Head Street Lights (General Electric)		
(26 56 19 00-0075)		
Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black or gray powder coat finish. Excludes sensors.		
26 56 19 00-0077 EA 2,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 02XX 40 A GRAY).....	656.04	178.83
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >50 To 100, Deduct	-32.80	
For >100 To 250, Deduct	-49.20	
For >250 To 500, Deduct	-73.06	
For >500 To 1000, Deduct	-96.92	
For >1000, Deduct	-120.78	
26 56 19 00-0078 EA 3,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 03XX 40 A GRAY).....	660.90	181.25
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >50 To 100, Deduct	-33.05	
For >100 To 250, Deduct	-49.57	
For >250 To 500, Deduct	-73.55	
For >500 To 1000, Deduct	-97.53	
For >1000, Deduct	-121.51	
26 56 19 00-0079 EA 4,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 04XX 40 A GRAY).....	687.20	184.09
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >50 To 100, Deduct	-34.36	
For >100 To 250, Deduct	-51.54	
For >250 To 500, Deduct	-76.70	
For >500 To 1000, Deduct	-101.85	
For >1000, Deduct	-127.01	
26 56 19 00-0080 EA 5,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 05XX 40 A GRAY).....	713.77	186.11
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >50 To 100, Deduct	-35.69	
For >100 To 250, Deduct	-53.53	
For >250 To 500, Deduct	-79.92	
For >500 To 1000, Deduct	-106.30	
For >1000, Deduct	-132.68	
26 56 19 00-0081 EA 7,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 07XX 40 A GRAY).....	783.78	190.16
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >50 To 100, Deduct	-39.19	
For >100 To 250, Deduct	-58.78	
For >250 To 500, Deduct	-88.46	
For >500 To 1000, Deduct	-118.15	
For >1000, Deduct	-147.83	
26 56 19 00-0082 EA 8,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 08XX 40 A GRAY).....	820.80	191.77
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >50 To 100, Deduct	-41.04	
For >100 To 250, Deduct	-61.56	
For >250 To 500, Deduct	-93.01	
For >500 To 1000, Deduct	-124.46	
For >1000, Deduct	-155.91	
26 56 19 00-0083 EA 9,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 10XX 40 A GRAY).....	890.26	194.61
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >50 To 100, Deduct	-44.51	
For >100 To 250, Deduct	-66.77	
For >250 To 500, Deduct	-101.55	
For >500 To 1000, Deduct	-136.34	
For >1000, Deduct	-171.12	



		Electrical	26
		Lighting	26 50
		Exterior Lighting	26 56

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0084	EA		13,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERLH 0 13XX 40 A GRAY).....	1,037.78	199.87
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >50 To 100, Deduct	-51.89	
			For >100 To 250, Deduct	-77.83	
			For >250 To 500, Deduct	-119.73	
			For >500 To 1000, Deduct	-161.62	
			For >1000, Deduct	-203.52	
26 56 19 00-0085	EA		19,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL2 0 19XX 40 A GRAY).....	1,208.95	210.39
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For >50 To 100, Deduct	-60.45	
			For >100 To 250, Deduct	-90.67	
			For >250 To 500, Deduct	-140.60	
			For >500 To 1000, Deduct	-190.53	
			For >1000, Deduct	-240.46	
26 56 19 00-0086			LED Roadway Lighting (Acuity AEL Autobahn) (26 56 19 00-0001)		
26 56 19 00-0087			Horizontal Tenon Mount, LED Cobra Head Street Lights (Acuity AEL Autobahn) (26 56 19 00-0086)		
			Note: UL wet listed. Includes 4,000K or 5,000K color temperature, 120-480 voltage, integral 10kV surge suppression, 0-10V dimming, die-cast extruded aluminum housing assembly and white, black, gray, graphite or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0088	EA		4,200 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB0 20ALEDE70).....	1,218.08	184.09
			For >50 To 100, Deduct	-60.90	
			For >100 To 250, Deduct	-91.36	
			For >250 To 500, Deduct	-143.06	
			For >500 To 1000, Deduct	-194.76	
			For >1000, Deduct	-246.45	
26 56 19 00-0089	EA		6,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB0 30BLEDE70).....	1,501.14	189.35
			For >50 To 100, Deduct	-75.06	
			For >100 To 250, Deduct	-112.59	
			For >250 To 500, Deduct	-178.18	
			For >500 To 1000, Deduct	-243.77	
			For >1000, Deduct	-309.35	
26 56 19 00-0090	EA		9,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 40BLEDE70).....	2,073.02	194.61
			For >50 To 100, Deduct	-103.65	
			For >100 To 250, Deduct	-155.48	
			For >250 To 500, Deduct	-249.40	
			For >500 To 1000, Deduct	-343.32	
			For >1000, Deduct	-437.24	
26 56 19 00-0091	EA		13,500 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 60BLEDE70).....	2,649.62	202.30
			For >50 To 100, Deduct	-132.48	
			For >100 To 250, Deduct	-198.72	
			For >250 To 500, Deduct	-321.09	
			For >500 To 1000, Deduct	-443.45	
			For >1000, Deduct	-565.82	
26 56 19 00-0092	EA		17,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 80BLEDE70).....	3,212.59	207.96
			For >50 To 100, Deduct	-160.63	
			For >100 To 250, Deduct	-240.94	
			For >250 To 500, Deduct	-391.18	
			For >500 To 1000, Deduct	-541.41	
			For >1000, Deduct	-691.64	
26 56 19 00-0093			LED Roadway Lighting (Leotek) (26 56 19 00-0001)		
26 56 19 00-0094			Horizontal Tenon Mount, LED Cobra Head Street Lights (Leotek) (26 56 19 00-0093)		
			Note: UL wet listed. Includes 4,000K color temperature, 120-277 voltage, integral surge protector, die-cast and extruded aluminum housing assembly and gray powder coat finish. Excludes sensors.		
26 56 19 00-0095	EA		Up To 3,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-4M2-MV-NW-X-GY-XXX-WL).....	671.63	184.09
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.38	
			For ANSI 7-wire Photocontrol Receptacle, Add	28.15	
			For Ripley Long-Life Twist Lock Photocontrol, Add	50.37	
			For >50 To 100, Deduct	-33.58	
			For >100 To 250, Deduct	-50.37	
			For >250 To 500, Deduct	-74.75	
			For >500 To 1000, Deduct	-99.13	
			For >1000, Deduct	-123.50	
26 56 19 00-0096	EA		Up To 5,150 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-4M2-MV-NW-X-GY-1AMP-WL).....	685.53	186.11
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.38	
			For ANSI 7-wire Photocontrol Receptacle, Add	28.15	
			For Ripley Long-Life Twist Lock Photocontrol, Add	50.37	
			For >50 To 100, Deduct	-34.28	
			For >100 To 250, Deduct	-51.41	
			For >250 To 500, Deduct	-76.39	
			For >500 To 1000, Deduct	-101.36	
			For >1000, Deduct	-126.33	

26 Electrical
26 50 Lighting
26 56 Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0097	EA		Up To 5,950 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-6M2-MV-NW-X-GY-XXX-WL).....	727.37	187.32
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.38	
			For ANSI 7-wire Photocontrol Receptacle, Add	28.15	
			For Ripley Long-Life Twist Lock Photocontrol, Add	50.37	
			For >50 To 100, Deduct	-36.37	
			For >100 To 250, Deduct	-54.55	
			For >250 To 500, Deduct	-81.55	
			For >500 To 1000, Deduct	-108.56	
			For >1000, Deduct	-135.56	
26 56 19 00-0098	EA		Up To 9,550 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC3-10M2-MV-NW-X-GY-XXX-WL).....	836.50	194.61
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.38	
			For ANSI 7-wire Photocontrol Receptacle, Add	28.15	
			For Ripley Long-Life Twist Lock Photocontrol, Add	50.37	
			For >50 To 100, Deduct	-41.83	
			For >100 To 250, Deduct	-62.74	
			For >250 To 500, Deduct	-94.83	
			For >500 To 1000, Deduct	-126.93	
			For >1000, Deduct	-159.02	
26 56 19 00-0099	EA		Up To 11,450 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC4-12M2-MV-NW-X-GY-XXX-WL).....	969.19	199.87
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.38	
			For ANSI 7-wire Photocontrol Receptacle, Add	28.15	
			For Ripley Long-Life Twist Lock Photocontrol, Add	50.37	
			For >50 To 100, Deduct	-48.46	
			For >100 To 250, Deduct	-72.69	
			For >250 To 500, Deduct	-111.16	
			For >500 To 1000, Deduct	-149.62	
			For >1000, Deduct	-188.09	
26 56 19 00-0100	EA		Up To 14,550 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC4-15M2-MV-NW-X-GY-XXX-WL).....	975.66	203.10
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.38	
			For ANSI 7-wire Photocontrol Receptacle, Add	28.15	
			For Ripley Long-Life Twist Lock Photocontrol, Add	50.37	
			For >50 To 100, Deduct	-48.78	
			For >100 To 250, Deduct	-73.17	
			For >250 To 500, Deduct	-111.80	
			For >500 To 1000, Deduct	-150.43	
			For >1000, Deduct	-189.06	
26 56 19 00-0101	EA		Up To 16,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-18M2-MV-NW-X-GY-XXX-WL).....	1,181.15	206.34
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.38	
			For ANSI 7-wire Photocontrol Receptacle, Add	28.15	
			For Ripley Long-Life Twist Lock Photocontrol, Add	50.37	
			For >50 To 100, Deduct	-59.06	
			For >100 To 250, Deduct	-88.59	
			For >250 To 500, Deduct	-137.33	
			For >500 To 1000, Deduct	-186.07	
			For >1000, Deduct	-234.81	
26 56 19 00-0102	EA		Up To 18,750 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-20M2-MV-NW-X-GY-XXX-WL).....	1,236.54	210.39
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.38	
			For ANSI 7-wire Photocontrol Receptacle, Add	28.15	
			For Ripley Long-Life Twist Lock Photocontrol, Add	50.37	
			For >50 To 100, Deduct	-61.83	
			For >100 To 250, Deduct	-92.74	
			For >250 To 500, Deduct	-144.05	
			For >500 To 1000, Deduct	-195.36	
			For >1000, Deduct	-246.66	
26 56 19 00-0103	EA		Up To 22,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-24M2-MV-NW-X-GY-XXX-WL).....	1,373.06	213.63
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.38	
			For ANSI 7-wire Photocontrol Receptacle, Add	28.15	
			For Ripley Long-Life Twist Lock Photocontrol, Add	50.37	
			For >50 To 100, Deduct	-68.65	
			For >100 To 250, Deduct	-102.98	
			For >250 To 500, Deduct	-160.95	
			For >500 To 1000, Deduct	-218.92	
			For >1000, Deduct	-276.89	



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0104	EA	Up To 29,150 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC9-30M2-MV-NW-X-GY-XXX-WL)	.....	1,468.21	216.86
		For LightGrid™ Wireless Outdoor Controller, Add	.....	20.00	
		For Twist Lock Shorting Cap, Add	.....	9.38	
		For ANSI 7-wire Photocontrol Receptacle, Add	.....	28.15	
		For Ripley Long-Life Twist Lock Photocontrol, Add	.....	50.37	
		For >50 To 100, Deduct	.....	-73.41	
		For >100 To 250, Deduct	.....	-110.12	
		For >250 To 500, Deduct	.....	-172.68	
		For >500 To 1000, Deduct	.....	-235.25	
		For >1000, Deduct	.....	-297.82	
26 56 19 00-0105	EA	Up To 4,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-20F-MV-NW-X-GY-XXX-WL)	.....	768.29	186.11
		For LightGrid™ Wireless Outdoor Controller, Add	.....	20.00	
		For Twist Lock Shorting Cap, Add	.....	9.38	
		For ANSI 7-wire Photocontrol Receptacle, Add	.....	28.15	
		For Ripley Long-Life Twist Lock Photocontrol, Add	.....	50.37	
		For >50 To 100, Deduct	.....	-38.41	
		For >100 To 250, Deduct	.....	-57.62	
		For >250 To 500, Deduct	.....	-86.73	
		For >500 To 1000, Deduct	.....	-115.84	
		For >1000, Deduct	.....	-144.95	
26 56 19 00-0106	EA	Up To 7,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-30F-MV-NW-X-GY-XXX-WL)	.....	839.07	190.97
		For LightGrid™ Wireless Outdoor Controller, Add	.....	20.00	
		For Twist Lock Shorting Cap, Add	.....	9.38	
		For ANSI 7-wire Photocontrol Receptacle, Add	.....	28.15	
		For Ripley Long-Life Twist Lock Photocontrol, Add	.....	50.37	
		For >50 To 100, Deduct	.....	-41.95	
		For >100 To 250, Deduct	.....	-62.93	
		For >250 To 500, Deduct	.....	-95.34	
		For >500 To 1000, Deduct	.....	-127.74	
		For >1000, Deduct	.....	-160.15	
26 56 19 00-0107	EA	Up To 9,300 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-40F-MV-NW-X-GY-XXX-WL)	.....	901.52	194.61
		For LightGrid™ Wireless Outdoor Controller, Add	.....	20.00	
		For Twist Lock Shorting Cap, Add	.....	9.38	
		For ANSI 7-wire Photocontrol Receptacle, Add	.....	28.15	
		For Ripley Long-Life Twist Lock Photocontrol, Add	.....	50.37	
		For >50 To 100, Deduct	.....	-45.08	
		For >100 To 250, Deduct	.....	-67.61	
		For >250 To 500, Deduct	.....	-102.96	
		For >500 To 1000, Deduct	.....	-138.31	
		For >1000, Deduct	.....	-173.65	
26 56 19 00-0108	EA	Up To 12,300 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-40F-MV-NW-X-GY-1AMP-WL)	.....	955.75	199.06
		For LightGrid™ Wireless Outdoor Controller, Add	.....	20.00	
		For Twist Lock Shorting Cap, Add	.....	9.38	
		For ANSI 7-wire Photocontrol Receptacle, Add	.....	28.15	
		For Ripley Long-Life Twist Lock Photocontrol, Add	.....	50.37	
		For >50 To 100, Deduct	.....	-47.79	
		For >100 To 250, Deduct	.....	-71.68	
		For >250 To 500, Deduct	.....	-109.52	
		For >500 To 1000, Deduct	.....	-147.35	
		For >1000, Deduct	.....	-185.18	
26 56 19 00-0109	EA	Up To 13,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-60F-MV-NW-X-GY-XXX-WL)	.....	1,010.21	200.68
		For LightGrid™ Wireless Outdoor Controller, Add	.....	20.00	
		For Twist Lock Shorting Cap, Add	.....	9.38	
		For ANSI 7-wire Photocontrol Receptacle, Add	.....	28.15	
		For Ripley Long-Life Twist Lock Photocontrol, Add	.....	50.37	
		For >50 To 100, Deduct	.....	-50.51	
		For >100 To 250, Deduct	.....	-75.77	
		For >250 To 500, Deduct	.....	-116.24	
		For >500 To 1000, Deduct	.....	-156.72	
		For >1000, Deduct	.....	-197.20	
26 56 19 00-0110	EA	Up To 17,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-80F-MV-NW-X-GY-XXX-WL)	.....	1,192.27	207.96
		For LightGrid™ Wireless Outdoor Controller, Add	.....	20.00	
		For Twist Lock Shorting Cap, Add	.....	9.38	
		For ANSI 7-wire Photocontrol Receptacle, Add	.....	28.15	
		For Ripley Long-Life Twist Lock Photocontrol, Add	.....	50.37	
		For >50 To 100, Deduct	.....	-59.61	
		For >100 To 250, Deduct	.....	-89.42	
		For >250 To 500, Deduct	.....	-138.64	
		For >500 To 1000, Deduct	.....	-187.85	
		For >1000, Deduct	.....	-237.07	

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0111	EA		Up To 19,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-90F-MV-NW-X-GY-XXX-WL).....	1,340.26	212.01
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.38	
			For ANSI 7-wire Photocontrol Receptacle, Add	28.15	
			For Ripley Long-Life Twist Lock Photocontrol, Add	50.37	
			For >50 To 100, Deduct	-67.01	
			For >100 To 250, Deduct	-100.52	
			For >250 To 500, Deduct	-156.93	
			For >500 To 1000, Deduct	-213.35	
			For >1000, Deduct	-269.76	
26 56 19 00-0112	EA		Up To 22,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-100F-MV-NW-X-GY-XXX-WL).....	1,420.70	212.82
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.38	
			For ANSI 7-wire Photocontrol Receptacle, Add	28.15	
			For Ripley Long-Life Twist Lock Photocontrol, Add	50.37	
			For >50 To 100, Deduct	-71.04	
			For >100 To 250, Deduct	-106.55	
			For >250 To 500, Deduct	-166.95	
			For >500 To 1000, Deduct	-227.34	
			For >1000, Deduct	-287.74	
26 56 19 00-0113	EA		Up To 26,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-120F-MV-NW-X-GY-XXX-WL).....	1,498.46	215.24
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.38	
			For ANSI 7-wire Photocontrol Receptacle, Add	28.15	
			For Ripley Long-Life Twist Lock Photocontrol, Add	50.37	
			For >50 To 100, Deduct	-74.92	
			For >100 To 250, Deduct	-112.38	
			For >250 To 500, Deduct	-176.55	
			For >500 To 1000, Deduct	-240.71	
			For >1000, Deduct	-304.87	
26 56 19 00-0114	EA		Up To 11,720 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCM2-30H-MV-NW-X-GY-1AMP).....	825.91	203.10
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.38	
			For ANSI 7-wire Photocontrol Receptacle, Add	28.15	
			For Ripley Long-Life Twist Lock Photocontrol, Add	50.37	
			For >50 To 100, Deduct	-41.30	
			For >100 To 250, Deduct	-61.94	
			For >250 To 500, Deduct	-93.08	
			For >500 To 1000, Deduct	-124.22	
			For >1000, Deduct	-155.36	
26 56 19 00-0115	EA		Up To 15,430 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCM2-40H-MV-NW-X-GY-1AMP).....	889.07	205.13
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.38	
			For ANSI 7-wire Photocontrol Receptacle, Add	28.15	
			For Ripley Long-Life Twist Lock Photocontrol, Add	50.37	
			For >50 To 100, Deduct	-44.45	
			For >100 To 250, Deduct	-66.68	
			For >250 To 500, Deduct	-100.88	
			For >500 To 1000, Deduct	-135.07	
			For >1000, Deduct	-169.27	
26 56 19 00-0116	EA		Up To 4,180 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ0-15H-MV-NW-X-GY-XXX-WL).....	645.31	185.70
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.38	
			For ANSI 7-wire Photocontrol Receptacle, Add	28.15	
			For Ripley Long-Life Twist Lock Photocontrol, Add	50.37	
			For >50 To 100, Deduct	-32.27	
			For >100 To 250, Deduct	-48.40	
			For >250 To 500, Deduct	-71.38	
			For >500 To 1000, Deduct	-94.36	
			For >1000, Deduct	-117.34	
26 56 19 00-0117	EA		Up To 5,510 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ1-20H-MV-NW-X-GY-XXX-WL).....	656.43	187.32
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.38	
			For ANSI 7-wire Photocontrol Receptacle, Add	28.15	
			For Ripley Long-Life Twist Lock Photocontrol, Add	50.37	
			For >50 To 100, Deduct	-32.82	
			For >100 To 250, Deduct	-49.23	
			For >250 To 500, Deduct	-72.69	
			For >500 To 1000, Deduct	-96.14	
			For >1000, Deduct	-119.60	



Electrical		26	26
Lighting		26 50	
Exterior Lighting		26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0118	EA		Up To 7,430 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ2-20H-MV-NW-X-GY-1AMP-WL).....	709.02	190.97
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.38	
			For ANSI 7-wire Photocontrol Receptacle, Add	28.15	
			For Ripley Long-Life Twist Lock Photocontrol, Add	50.37	
			For >50 To 100, Deduct	-35.45	
			For >100 To 250, Deduct	-53.18	
			For >250 To 500, Deduct	-79.08	
			For >500 To 1000, Deduct	-104.98	
			For >1000, Deduct	-130.88	
26 56 19 00-0119	EA		Up To 16,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL1-60G-MV-NW-X-GY-XXX-WL).....	1,060.95	206.34
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.38	
			For ANSI 7-wire Photocontrol Receptacle, Add	28.15	
			For Ripley Long-Life Twist Lock Photocontrol, Add	50.37	
			For >50 To 100, Deduct	-53.05	
			For >100 To 250, Deduct	-79.57	
			For >250 To 500, Deduct	-122.30	
			For >500 To 1000, Deduct	-165.03	
			For >1000, Deduct	-207.76	
26 56 19 00-0120	EA		Up To 22,100 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL1-80G-MV-NW-X-GY-XXX-WL).....	1,365.53	212.82
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.38	
			For ANSI 7-wire Photocontrol Receptacle, Add	28.15	
			For Ripley Long-Life Twist Lock Photocontrol, Add	50.37	
			For >50 To 100, Deduct	-68.28	
			For >100 To 250, Deduct	-102.41	
			For >250 To 500, Deduct	-160.05	
			For >500 To 1000, Deduct	-217.69	
			For >1000, Deduct	-275.32	
26 56 19 00-0121	EA		Up To 22,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL2-60G-MV-NW-X-GY-1AMP-WL).....	1,225.27	213.63
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.38	
			For ANSI 7-wire Photocontrol Receptacle, Add	28.15	
			For Ripley Long-Life Twist Lock Photocontrol, Add	50.37	
			For >50 To 100, Deduct	-61.26	
			For >100 To 250, Deduct	-91.90	
			For >250 To 500, Deduct	-142.48	
			For >500 To 1000, Deduct	-193.06	
			For >1000, Deduct	-243.64	
26 56 19 00-0122	EA		Up To 5,484 Lumens, Horizontal Tenon Mount, LED Security Light (Leotek® SafeGuard™ SG1-01-MV-NW-5-GY).....	622.47	186.11
			For Twist Lock Shorting Cap, Add	9.38	
			For ANSI 7-wire Photocontrol Receptacle, Add	28.15	
			For Ripley Long-Life Twist Lock Photocontrol, Add	50.37	
			For >50 To 100, Deduct	-31.12	
			For >100 To 250, Deduct	-46.69	
			For >250 To 500, Deduct	-68.50	
			For >500 To 1000, Deduct	-90.32	
			For >1000, Deduct	-112.14	

26 56 21 HID Exterior Lighting (26 56)

26 56 21 00-0001 High Mast Fixtures (26 56 21)

26 56 21 00-0002 Metal Halide, High Mast Fixtures (26 56 21 00-0001)

26 56 21 00-0003	EA	400 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux	1,884.42	200.24
26 56 21 00-0004	EA	400 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	2,010.17	200.24
26 56 21 00-0005	EA	750 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux	2,001.32	228.76
26 56 21 00-0006	EA	750 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	2,076.77	228.76
26 56 21 00-0007	EA	1,000 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux	2,115.31	285.94
26 56 21 00-0008	EA	1,000 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	2,190.75	285.94

26 56 21 00-0009 High Pressure Sodium, High Mast Fixtures (26 56 21 00-0001)

26 56 21 00-0010	EA	400 W High Mast HPS Fixture (VA 25 Type V) As Manufactured By Metrolux	1,944.55	200.24
26 56 21 00-0011	EA	400 W High Mast HPS Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux	2,020.00	200.24
26 56 21 00-0012	EA	600 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	2,346.45	211.68
26 56 21 00-0013	EA	750 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	2,407.04	228.76
26 56 21 00-0014	EA	1,000 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux	2,558.74	285.94

26 56 21 00-0015 HID, Pole Mounted (26 56 21)

26 56 21 00-0016 Metal Halide, Pole Mounted (26 56 21 00-0015)

26 56 21 00-0017	EA	175 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	752.65	326.51
26 56 21 00-0018	EA	250 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	843.18	354.42
26 56 21 00-0019	EA	400 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	974.02	381.26
26 56 21 00-0020	EA	1,000 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture	1,252.54	446.83

26	Electrical
26 50	Lighting
26 56	Exterior Lighting



MINOR			TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 56 21 00-0021		High Pressure Sodium, Pole Mounted (26 56 21 00-0015)			
26 56 21 00-0022	EA	100 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	865.82		381.26
26 56 21 00-0023	EA	150 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	889.25		381.26
26 56 21 00-0024	EA	175 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	929.54		381.26
26 56 21 00-0025	EA	250 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	1,031.04		381.26
26 56 21 00-0026	EA	400 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	1,191.19		381.26
26 56 21 00-0027	EA	1,000 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture	1,211.21		381.26
26 56 21 00-0028		Low Pressure Sodium, Pole Mounted (26 56 21 00-0015)			
26 56 21 00-0029	EA	135 Watt Low Pressure Sodium Exterior Roadway Fixture, Enclosed And Gasketed	761.81		207.40
26 56 21 00-0030	EA	135 Watt Low Pressure Sodium Fixture, Enclosed And Gasketed	858.22		305.00
26 56 21 00-0031	EA	180 Watt Low Pressure Sodium Fixture, Enclosed And Gasketed	989.52		305.00
26 56 21 00-0032		Induction, Roadway Lighting (26 56 21)			
26 56 21 00-0033		Induction Roadway Lighting (US Lighting Tech) (26 56 21 00-0032)			
		Note: Includes gray powder coat finish heavy duty die cast aluminum body and flat glass lens.			
26 56 21 00-0034	EA	40 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	737.25		242.75
26 56 21 00-0035	EA	70 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	802.80		250.84
26 56 21 00-0036	EA	100 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	835.16		267.03
26 56 21 00-0037	EA	150 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	867.53		283.22
26 56 21 00-0038	EA	200 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	997.24		291.31
26 56 21 00-0039	EA	250 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511)	1,017.37		299.40
26 56 21 00-0040	EA	40 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512)	695.79		242.75
26 56 21 00-0041	EA	70 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512)	767.26		250.84
26 56 21 00-0042	EA	100 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512)	799.62		267.03
26 56 21 00-0043	EA	150 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512)	831.99		283.22

END OF SECTION 26



Communications			27
Structured Cabling			27 10
Communications Backbone Cabling			27 13

27

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

27 Communications

Note: Termination costs are included with all communication equipment, panel boards, and devices. Terminations are not included with patch panels.

27 10 Structured Cabling⁽²⁷⁾

Note: Includes identifying, tagging and testing.

27 13 Communications Backbone Cabling^(27 10)

27 13 13 Communications Copper Backbone Cabling^(27 13)

27 13 13 13 Communications Copper Cable Splicing and Terminations^(27 13 13)

27 13 13 13-0001 Building Entrance Terminals^(27 13 13 13)

27 13 13 13-0002	EA	25 Pair Gas Protective Unit Assembly Complete With Gas Protector.....	1,905.62	325.08
27 13 13 13-0003	EA	50 Pair Gas Protective Unit Assembly Complete With Gas Protector.....	2,674.92	541.80
27 13 13 13-0004	EA	100 Pair Gas Protective Unit Assembly Complete With Gas Protector.....	3,918.62	867.57

27 15 Communications Horizontal Cabling^(27 10)

27 15 13 Communications Copper Horizontal Cabling^(27 15)

Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.

27 15 13 00-0001 Copper Telecommunications Cable^(27 15 13)

27 15 13 00-0002 Indoor Telecommunications Cable^(27 15 13 00-0001)

Note: Shielded twisted pair cables (STP) includes a metallic foil wrap. Un-shielded twisted pair cables (UTP) excludes any shielding.

27 15 13 00-0003 Category 3, Indoor Telecommunications Cable^(27 15 13 00-0002)

Note: Un-shielded twisted pair cables (UTP).

27 15 13 00-0004 Category 3, Indoor Telecommunications Riser Cable^(27 15 13 00-0003)

27 15 13 00-0005 24 AWG, Category 3, Indoor Telecommunications Riser Cable^(27 15 13 00-0004)

27 15 13 00-0006 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit^(27 15 13 00-0005)

27 15 13 00-0007	MLF	2-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	1,140.73	622.63
27 15 13 00-0008	MLF	3-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	1,184.70	622.63
27 15 13 00-0009	MLF	4-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	1,200.24	622.63
27 15 13 00-0010	MLF	6-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	1,435.96	711.57
27 15 13 00-0011	MLF	12-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	1,759.62	711.57
27 15 13 00-0012	MLF	25-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	2,273.53	711.57
27 15 13 00-0013	MLF	50-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	3,541.69	889.46
27 15 13 00-0014	MLF	100-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	6,342.22	1,423.14
27 15 13 00-0015	MLF	150-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	8,476.86	1,601.03
27 15 13 00-0016	MLF	200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	11,144.54	1,778.93
27 15 13 00-0017	MLF	300-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	16,262.57	2,490.49
27 15 13 00-0018	MLF	400-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	21,251.93	3,077.53
27 15 13 00-0019	MLF	600-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	33,469.68	4,269.42
27 15 13 00-0020	MLF	900-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	54,908.15	8,538.82
27 15 13 00-0021	MLF	1,200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	75,057.53	12,808.24

27 15 13 00-0022 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed^(27 15 13 00-0005)

27 15 13 00-0023	MLF	2-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed	2,178.43	1,245.25
For Work In Restricted Working Space, Add			622.62	
27 15 13 00-0024	MLF	3-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed	2,222.40	1,245.25
For Work In Restricted Working Space, Add			622.62	
27 15 13 00-0025	MLF	4-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed	2,237.94	1,245.25
For Work In Restricted Working Space, Add			622.62	
27 15 13 00-0026	MLF	6-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed	2,325.43	1,245.25
For Work In Restricted Working Space, Add			622.62	
27 15 13 00-0027	MLF	12-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed	2,649.09	1,245.25
For Work In Restricted Working Space, Add			622.62	
27 15 13 00-0028	MLF	25-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed	3,459.49	1,423.14
For Work In Restricted Working Space, Add			711.57	
27 15 13 00-0029	MLF	50-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed	5,024.12	1,778.93
For Work In Restricted Working Space, Add			889.46	
27 15 13 00-0030	MLF	100-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed	7,528.16	2,134.71
For Work In Restricted Working Space, Add			1,067.35	
27 15 13 00-0031	MLF	150-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed	9,811.05	2,401.54
For Work In Restricted Working Space, Add			1,200.77	
27 15 13 00-0032	MLF	200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed	12,626.98	2,668.38
For Work In Restricted Working Space, Add			1,334.19	
27 15 13 00-0033	MLF	300-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed	18,337.98	3,735.74
For Work In Restricted Working Space, Add			1,867.87	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0034 MLF 400-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	23,831.36 2,312.60	4,625.20
27 15 13 00-0035 MLF 600-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	37,027.52 3,202.06	6,404.12
27 15 13 00-0036 MLF 900-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	62,023.84 6,404.12	12,808.24
27 15 13 00-0037 MLF 1,200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	85,731.07 9,606.18	19,212.36
27 15 13 00-0038 22 AWG, Category 3, Indoor Telecommunications Riser Cable (27 15 13 00-0004)		
27 15 13 00-0039 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit (27 15 13 00-0038)		
27 15 13 00-0040 MLF 25-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	3,553.56	711.57
27 15 13 00-0041 MLF 50-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	5,240.73	889.46
27 15 13 00-0042 MLF 100-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	9,509.41	1,423.14
27 15 13 00-0043 MLF 200-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	16,661.17	1,778.93
27 15 13 00-0044 MLF 300-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	24,466.62	2,490.49
27 15 13 00-0045 MLF 400-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	31,818.56	3,077.53
27 15 13 00-0046 MLF 600-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	47,086.36	4,269.42
27 15 13 00-0047 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed (27 15 13 00-0038)		
27 15 13 00-0048 MLF 25-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	4,739.52 711.57	1,423.14
27 15 13 00-0049 MLF 50-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	6,723.16 889.46	1,778.93
27 15 13 00-0050 MLF 100-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	10,695.35 1,067.35	2,134.71
27 15 13 00-0051 MLF 200-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	18,143.61 1,334.19	2,668.38
27 15 13 00-0052 MLF 300-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	26,542.03 1,867.87	3,735.74
27 15 13 00-0053 MLF 400-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	34,397.99 2,312.60	4,625.20
27 15 13 00-0054 MLF 600-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	50,644.20 3,202.06	6,404.12
27 15 13 00-0055 Category 3, Indoor Telecommunications Plenum Cable (27 15 13 00-0003)		
27 15 13 00-0056 24 AWG, Category 3, Indoor Telecommunications Plenum Cable (27 15 13 00-0055)		
27 15 13 00-0057 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit (27 15 13 00-0056)		
27 15 13 00-0058 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,176.29	622.63
27 15 13 00-0059 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,220.08	622.63
27 15 13 00-0060 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,252.83	622.63
27 15 13 00-0061 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,495.01	711.57
27 15 13 00-0062 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	1,847.82	711.57
27 15 13 00-0063 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	2,804.18	711.57
27 15 13 00-0064 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	4,622.04	889.46
27 15 13 00-0065 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	8,605.84	1,423.14
27 15 13 00-0066 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	14,691.78	1,778.93
27 15 13 00-0067 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit	21,963.49	2,490.49
27 15 13 00-0068 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed (27 15 13 00-0056)		
27 15 13 00-0069 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,213.99 622.62	1,245.25
27 15 13 00-0070 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,257.78 622.62	1,245.25
27 15 13 00-0071 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,290.53 622.62	1,245.25
27 15 13 00-0072 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,384.48 622.62	1,245.25
27 15 13 00-0073 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,737.29 622.62	1,245.25
27 15 13 00-0074 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	3,990.14 711.57	1,423.14
27 15 13 00-0075 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	6,104.47 889.46	1,778.93
27 15 13 00-0076 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	9,791.78 1,067.35	2,134.71
27 15 13 00-0077 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	16,174.22 1,334.19	2,668.38
27 15 13 00-0078 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	24,038.90 1,867.87	3,735.74



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0079 Category 5E, Indoor Telecommunications Cable (27 15 13 00-0002)		
27 15 13 00-0080 Category 5E, Indoor Telecommunications Riser Cable (27 15 13 00-0079)		
27 15 13 00-0081 Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit (27 15 13 00-0080)		
27 15 13 00-0082 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,223.60	622.63
27 15 13 00-0083 MLF 4-Pair Stranded UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,267.14	622.63
27 15 13 00-0084 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,416.20	711.57
27 15 13 00-0085 MLF 4-Pair Stranded STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,459.73	711.57
27 15 13 00-0086 Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed (27 15 13 00-0080)		
27 15 13 00-0087 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed.....	2,261.30	1,245.25
For Work In Restricted Working Space, Add	622.62	
27 15 13 00-0088 MLF 4-Pair Stranded UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed.....	2,304.84	1,245.25
For Work In Restricted Working Space, Add	622.62	
27 15 13 00-0089 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed.....	2,602.16	1,423.14
For Work In Restricted Working Space, Add	711.57	
27 15 13 00-0090 MLF 4-Pair Stranded STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed.....	2,645.69	1,423.14
For Work In Restricted Working Space, Add	711.57	
27 15 13 00-0091 Category 5E, Indoor Telecommunications Plenum Cable (27 15 13 00-0079)		
27 15 13 00-0092 Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit (27 15 13 00-0091)		
27 15 13 00-0093 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	1,383.72	622.63
27 15 13 00-0094 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	1,872.16	711.57
27 15 13 00-0095 Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed (27 15 13 00-0091)		
27 15 13 00-0096 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed.....	2,421.42	1,245.25
For Work In Restricted Working Space, Add	622.62	
27 15 13 00-0097 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed.....	3,058.12	1,423.14
For Work In Restricted Working Space, Add	711.57	
27 15 13 00-0098 Category 6, Indoor Telecommunications Cable (27 15 13 00-0002)		
27 15 13 00-0099 Category 6, Indoor Telecommunications Riser Cable (27 15 13 00-0098)		
27 15 13 00-0100 Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit (27 15 13 00-0099)		
27 15 13 00-0101 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,551.44	622.63
27 15 13 00-0102 MLF 4-Pair Stranded UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,608.88	622.63
27 15 13 00-0103 Category 6, Indoor Telecommunications Riser Cable, Installed Exposed (27 15 13 00-0099)		
27 15 13 00-0104 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed Exposed.....	2,589.14	1,245.25
For Work In Restricted Working Space, Add	622.62	
27 15 13 00-0105 MLF 4-Pair Stranded UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed Exposed.....	2,646.58	1,245.25
For Work In Restricted Working Space, Add	622.62	
27 15 13 00-0106 Category 6, Indoor Telecommunications Plenum Cable (27 15 13 00-0098)		
27 15 13 00-0107 Category 6, Indoor Telecommunications Plenum Cable, Installed In Conduit (27 15 13 00-0106)		
27 15 13 00-0108 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	1,877.81	622.63
27 15 13 00-0109 Category 6, Indoor Telecommunications Plenum Cable, Installed Exposed (27 15 13 00-0106)		
27 15 13 00-0110 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Plenum Cable, Installed Exposed.....	2,915.51	1,245.25
For Work In Restricted Working Space, Add	622.62	
27 15 13 00-0111 Category 6a, Indoor Telecommunications Cable (27 15 13 00-0002)		
27 15 13 00-0112 Category 6a, Indoor Telecommunications Riser Cable (27 15 13 00-0111)		
27 15 13 00-0113 Category 6a Indoor Telecommunications Riser Cable, Installed In Conduit (27 15 13 00-0112)		
27 15 13 00-0114 MLF 4-Pair Solid UTP, 23 AWG, Category 6A, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,643.23	622.63
27 15 13 00-0115 Category 6a, Indoor Telecommunications Riser Cable, Installed Exposed (27 15 13 00-0112)		
27 15 13 00-0116 MLF 4-Pair Solid UTP, 23 AWG, Category 6A, Indoor Telecommunications Riser Cable, Installed Exposed.....	2,680.93	1,245.25
For Work In Restricted Working Space, Add	622.62	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0117 Category 6a, Indoor Telecommunications Plenum Cable (27 15 13 00-0111)		
27 15 13 00-0118 Category 6a, Indoor Telecommunications Plenum Cable, Installed In Conduit (27 15 13 00-0117)		
27 15 13 00-0119 MLF 4-Pair Solid UTP, 23 AWG, Category 6A, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	2,096.16	622.63
27 15 13 00-0120 Category 6a, Indoor Telecommunications Plenum Cable, Installed Exposed (27 15 13 00-0117)		
27 15 13 00-0121 MLF 4-Pair Solid UTP, 23 AWG, Category 6A, Indoor Telecommunications Plenum Cable, Installed Exposed For Work In Restricted Working Space, Add	3,133.86 622.62	1,245.25
27 15 13 00-0122 Category 7, Indoor Telecommunications Cable (27 15 13 00-0002)		
27 15 13 00-0123 Category 7, Indoor Telecommunications Cable, Installed In Conduit (27 15 13 00-0122)		
27 15 13 00-0124 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Riser Cable, Installed In Conduit.....	3,520.23	711.57
27 15 13 00-0125 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	5,765.95	711.57
27 15 13 00-0126 Category 7, Indoor Telecommunications Cable, Installed Exposed (27 15 13 00-0122)		
27 15 13 00-0127 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Riser Cable, Installed Exposed..... For Work In Restricted Working Space, Add	4,706.19 711.57	1,423.14
27 15 13 00-0128 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Plenum Cable, Installed Exposed..... For Work In Restricted Working Space, Add	6,951.91 711.57	1,423.14
27 15 13 00-0129 Outdoor Telecommunications Cable (27 15 13 00-0001) Note: Cable buried in trench excludes excavation.		
27 15 13 00-0130 PE-89 Outdoor Telecommunications Cable (27 15 13 00-0129) Note: Includes foam-skin polyolefin insulated conductors.		
27 15 13 00-0131 24 AWG, PE-89 Outdoor Telecommunications Cable (27 15 13 00-0130)		
27 15 13 00-0132 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit (27 15 13 00-0131)		
27 15 13 00-0133 MLF 6-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	2,015.42	711.57
27 15 13 00-0134 MLF 12-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	2,366.27	1,245.25
27 15 13 00-0135 MLF 25-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	3,270.30	800.52
27 15 13 00-0136 MLF 50-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	4,858.38	889.46
27 15 13 00-0137 MLF 75-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	6,882.44	1,245.25
27 15 13 00-0138 MLF 100-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	8,613.36	1,423.14
27 15 13 00-0139 MLF 200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	14,511.96	1,601.03
27 15 13 00-0140 MLF 300-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	21,319.59	2,312.60
27 15 13 00-0141 MLF 400-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	28,236.24	3,024.17
27 15 13 00-0142 MLF 600-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	38,342.44	4,091.52
27 15 13 00-0143 MLF 900-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	61,119.68	8,183.04
27 15 13 00-0144 MLF 1,200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	83,840.32	12,096.67
27 15 13 00-0145 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0131)		
27 15 13 00-0146 MLF 6-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	1,793.06	
27 15 13 00-0147 MLF 12-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	2,143.91	
27 15 13 00-0148 MLF 25-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	2,973.82	
27 15 13 00-0149 MLF 50-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	4,561.88	
27 15 13 00-0150 MLF 75-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	6,437.71	
27 15 13 00-0151 MLF 100-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	7,872.14	
27 15 13 00-0152 MLF 200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	14,215.48	
27 15 13 00-0153 MLF 300-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	20,430.12	
27 15 13 00-0154 MLF 400-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	26,383.20	
27 15 13 00-0155 MLF 600-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	35,081.08	
27 15 13 00-0156 MLF 900-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	52,225.06	
27 15 13 00-0157 MLF 1,200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	70,794.89	
27 15 13 00-0158 22 AWG, PE-89 Outdoor Telecommunications Cable (27 15 13 00-0130)		
27 15 13 00-0159 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit (27 15 13 00-0158)		
27 15 13 00-0160 MLF 6-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	2,238.47	711.57
27 15 13 00-0161 MLF 12-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	2,782.98	711.57
27 15 13 00-0162 MLF 25-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	4,123.28	800.52
27 15 13 00-0163 MLF 50-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	6,376.58	889.46
27 15 13 00-0164 MLF 75-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	9,254.97	1,245.25
27 15 13 00-0165 MLF 100-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	11,838.75	1,423.14
27 15 13 00-0166 MLF 200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	20,734.19	1,601.03
27 15 13 00-0167 MLF 300-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	30,193.75	2,312.60
27 15 13 00-0168 MLF 400-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	40,199.37	3,024.17
27 15 13 00-0169 MLF 600-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	59,233.84	4,091.52
27 15 13 00-0170 MLF 900-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	87,503.79	8,183.04



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0171 MLF 1,200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	123,313.37	12,096.67
27 15 13 00-0172 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0158)		
27 15 13 00-0173 MLF 6-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	2,016.11	
27 15 13 00-0174 MLF 12-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	2,560.62	
27 15 13 00-0175 MLF 25-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	3,826.80	
27 15 13 00-0176 MLF 50-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	6,080.08	
27 15 13 00-0177 MLF 75-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	8,810.24	
27 15 13 00-0178 MLF 100-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	11,394.01	
27 15 13 00-0179 MLF 200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	20,437.71	
27 15 13 00-0180 MLF 300-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	29,304.28	
27 15 13 00-0181 MLF 400-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	38,346.33	
27 15 13 00-0182 MLF 600-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	55,972.48	
27 15 13 00-0183 MLF 900-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	78,609.17	
27 15 13 00-0184 MLF 1,200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	110,267.94	
27 15 13 00-0185 19 AWG, PE-89 Outdoor Telecommunications Cable (27 15 13 00-0130)		
27 15 13 00-0186 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit (27 15 13 00-0185)		
27 15 13 00-0187 MLF 25-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	6,752.83	800.52
27 15 13 00-0188 MLF 50-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	11,516.50	889.46
27 15 13 00-0189 MLF 75-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	18,397.95	1,245.25
27 15 13 00-0190 MLF 100-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit	22,019.46	1,423.14
27 15 13 00-0191 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0185)		
27 15 13 00-0192 MLF 25-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	6,456.35	
27 15 13 00-0193 MLF 50-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	11,220.00	
27 15 13 00-0194 MLF 75-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	17,953.22	
27 15 13 00-0195 MLF 100-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench	21,574.72	
27 15 13 00-0196 PE-39 Outdoor Telecommunications Cable (27 15 13 00-0129)		
Note: Includes solid polyolefin insulated conductors.		
27 15 13 00-0197 24 AWG, PE-39 Outdoor Telecommunications Cable (27 15 13 00-0196)		
27 15 13 00-0198 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit (27 15 13 00-0197)		
27 15 13 00-0199 MLF 6-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	2,936.25	1,245.25
27 15 13 00-0200 MLF 12-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	3,365.48	1,245.25
27 15 13 00-0201 MLF 25-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	4,231.42	1,245.25
27 15 13 00-0202 MLF 50-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	5,790.80	1,245.25
27 15 13 00-0203 MLF 100-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	8,953.47	1,245.25
27 15 13 00-0204 MLF 200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	15,967.85	1,601.03
27 15 13 00-0205 MLF 300-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	23,305.50	2,312.60
27 15 13 00-0206 MLF 400-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	30,656.05	3,024.17
27 15 13 00-0207 MLF 600-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	41,875.55	4,091.52
27 15 13 00-0208 MLF 900-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	65,688.87	8,183.04
27 15 13 00-0209 MLF 1,200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	95,690.93	12,096.67
27 15 13 00-0210 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0197)		
27 15 13 00-0211 MLF 6-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	2,491.52	
27 15 13 00-0212 MLF 12-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	2,920.75	
27 15 13 00-0213 MLF 25-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	3,786.69	
27 15 13 00-0214 MLF 50-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	5,346.07	
27 15 13 00-0215 MLF 100-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	8,508.74	
27 15 13 00-0216 MLF 200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	15,671.37	
27 15 13 00-0217 MLF 300-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	22,416.03	
27 15 13 00-0218 MLF 400-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	28,803.01	
27 15 13 00-0219 MLF 600-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	38,614.19	
27 15 13 00-0220 MLF 900-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	56,794.25	
27 15 13 00-0221 MLF 1,200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	82,645.50	
27 15 13 00-0222 22 AWG, PE-39 Outdoor Telecommunications Cable (27 15 13 00-0196)		
27 15 13 00-0223 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit (27 15 13 00-0222)		
27 15 13 00-0224 MLF 6-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	3,184.40	1,245.25
27 15 13 00-0225 MLF 12-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	3,815.12	1,245.25
27 15 13 00-0226 MLF 25-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	5,157.34	1,245.25
27 15 13 00-0227 MLF 50-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	7,626.54	1,245.25
27 15 13 00-0228 MLF 100-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	12,779.42	1,245.25
27 15 13 00-0229 MLF 200-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	23,330.81	1,601.03
27 15 13 00-0230 MLF 300-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	34,174.14	2,312.60
27 15 13 00-0231 MLF 400-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	43,801.46	3,024.17
27 15 13 00-0232 MLF 600-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	61,136.60	4,091.52

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0233 MLF 900-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	96,876.97	8,183.04
27 15 13 00-0234 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0222)		
27 15 13 00-0235 MLF 6-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	2,739.67	
27 15 13 00-0236 MLF 12-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	3,370.39	
27 15 13 00-0237 MLF 25-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	4,712.61	
27 15 13 00-0238 MLF 50-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	7,181.81	
27 15 13 00-0239 MLF 100-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	12,334.69	
27 15 13 00-0240 MLF 200-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	23,034.33	
27 15 13 00-0241 MLF 300-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	33,284.67	
27 15 13 00-0242 MLF 400-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	41,948.42	
27 15 13 00-0243 MLF 600-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	57,875.24	
27 15 13 00-0244 MLF 900-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	87,982.35	
27 15 13 00-0245 19 AWG, PE-39 Outdoor Telecommunications Cable (27 15 13 00-0196)		
27 15 13 00-0246 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit (27 15 13 00-0245)		
27 15 13 00-0247 MLF 25-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	8,130.66	1,245.25
27 15 13 00-0248 MLF 50-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	13,138.51	1,245.25
27 15 13 00-0249 MLF 100-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit	23,523.04	1,245.25
27 15 13 00-0250 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0245)		
27 15 13 00-0251 MLF 25-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	7,685.93	
27 15 13 00-0252 MLF 50-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	12,693.78	
27 15 13 00-0253 MLF 100-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench	23,078.31	
27 15 13 00-0254 (Aerial) Outdoor Telecommunications Cable (27 15 13 00-0129)		
Note: Includes support wire.		
27 15 13 00-0255 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles (27 15 13 00-0254)		
27 15 13 00-0256 MLF 6-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	8,447.06	2,440.05
27 15 13 00-0257 MLF 12-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	8,804.20	2,440.05
27 15 13 00-0258 MLF 25-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	9,690.89	2,440.05
27 15 13 00-0259 MLF 50-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	11,332.59	2,440.05
27 15 13 00-0260 MLF 100-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	14,503.50	2,440.05
27 15 13 00-0261 MLF 200-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	21,382.25	2,684.06
27 15 13 00-0262 MLF 300-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	28,300.22	2,928.07
27 15 13 00-0263 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles (27 15 13 00-0254)		
27 15 13 00-0264 MLF 6-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	8,874.34	2,440.05
27 15 13 00-0265 MLF 12-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	9,401.98	2,440.05
27 15 13 00-0266 MLF 25-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	10,672.87	2,440.05
27 15 13 00-0267 MLF 50-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	13,183.61	2,440.05
27 15 13 00-0268 MLF 100-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	18,913.84	2,440.05
27 15 13 00-0269 MLF 200-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	29,148.13	2,684.06
27 15 13 00-0270 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles (27 15 13 00-0254)		
27 15 13 00-0271 MLF 6-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	9,439.23	2,440.05
27 15 13 00-0272 MLF 12-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	10,632.48	2,440.05
27 15 13 00-0273 MLF 25-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	12,978.59	2,440.05
27 15 13 00-0274 MLF 50-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	17,670.86	2,440.05
27 15 13 00-0275 MLF 100-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles	27,303.85	2,440.05
27 15 13 00-0276 Solid Conductor Low Voltage Cable (27 15 13)		
27 15 13 00-0277 Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0276)		
27 15 13 00-0278 #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0277)		
27 15 13 00-0279 MLF 1 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,719.65	1,340.97
For #10 AWG, Add	606.92	
For Work In Restricted Working Space, Add	670.55	
27 15 13 00-0280 MLF 2 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,208.73	1,388.38
For #10 AWG, Add	757.98	
For Work In Restricted Working Space, Add	694.40	
27 15 13 00-0281 MLF 3 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,640.19	1,437.14
For #10 AWG, Add	889.97	
For Work In Restricted Working Space, Add	718.37	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0282	MLF	4 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,096.56	1,485.90
		For #10 AWG, Add	1,029.82	
		For Work In Restricted Working Space, Add	743.18	
27 15 13 00-0283	MLF	5 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,615.19	1,586.14
		For #10 AWG, Add	1,179.25	
		For Work In Restricted Working Space, Add	793.31	
27 15 13 00-0284	MLF	6 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,091.69	1,685.03
		For #10 AWG, Add	1,315.07	
		For Work In Restricted Working Space, Add	842.73	
27 15 13 00-0285	MLF	8 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,545.58	1,885.49
		For #10 AWG, Add	1,421.60	
		For Work In Restricted Working Space, Add	942.57	
27 15 13 00-0286	MLF	12 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,346.70	2,485.54
		For #10 AWG, Add	1,885.98	
		For Work In Restricted Working Space, Add	1,242.53	
27 15 13 00-0287	MLF	24 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	10,923.71	3,670.75
		For #10 AWG, Add	2,809.70	
		For Work In Restricted Working Space, Add	1,834.90	
27 15 13 00-0288 #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0277)				
27 15 13 00-0289	MLF	1 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,417.51	1,173.02
		For Work In Restricted Working Space, Add	586.37	
27 15 13 00-0290	MLF	2 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,879.26	1,215.00
		For Work In Restricted Working Space, Add	607.50	
27 15 13 00-0291	MLF	3 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,285.60	1,257.00
		For Work In Restricted Working Space, Add	628.63	
27 15 13 00-0292	MLF	4 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,714.42	1,300.34
		For Work In Restricted Working Space, Add	650.17	
27 15 13 00-0293	MLF	5 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,196.60	1,388.38
		For Work In Restricted Working Space, Add	694.06	
27 15 13 00-0294	MLF	6 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,638.03	1,475.07
		For Work In Restricted Working Space, Add	737.13	
27 15 13 00-0295	MLF	8 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,046.31	1,649.81
		For Work In Restricted Working Space, Add	824.90	
27 15 13 00-0296	MLF	12 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,685.52	2,174.00
		For Work In Restricted Working Space, Add	1,087.00	
27 15 13 00-0297	MLF	24 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	9,946.35	3,211.57
		For Work In Restricted Working Space, Add	1,605.92	
27 15 13 00-0298 #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0277)				
27 15 13 00-0299	MLF	1 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,153.62	1,047.04
		For Work In Restricted Working Space, Add	523.79	
27 15 13 00-0300	MLF	2 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,462.42	1,084.97
		For Work In Restricted Working Space, Add	542.48	
27 15 13 00-0301	MLF	3 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,918.64	1,122.90
		For Work In Restricted Working Space, Add	561.18	
27 15 13 00-0302	MLF	4 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,298.07	1,160.82
		For Work In Restricted Working Space, Add	580.68	
27 15 13 00-0303	MLF	5 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,723.88	1,239.38
		For Work In Restricted Working Space, Add	619.69	
27 15 13 00-0304	MLF	6 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,114.86	1,316.59
		For Work In Restricted Working Space, Add	658.30	
27 15 13 00-0305	MLF	7 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,295.84	1,395.16
		For Work In Restricted Working Space, Add	697.31	
27 15 13 00-0306	MLF	8 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,478.16	1,473.72
		For Work In Restricted Working Space, Add	736.72	

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0307 MLF 9 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	4,971.02 783.46	1,567.18
27 15 13 00-0308 MLF 12 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	5,931.84 970.58	1,941.03
27 15 13 00-0309 MLF 24 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	8,824.27 1,433.83	2,867.52
27 15 13 00-0310 #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0277)		
27 15 13 00-0311 MLF 1 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	1,823.87 460.81	922.43
27 15 13 00-0312 MLF 2 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	2,122.72 477.47	954.93
27 15 13 00-0313 MLF 3 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	2,387.12 494.13	987.45
27 15 13 00-0314 MLF 4 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	2,664.66 510.79	1,021.31
27 15 13 00-0315 MLF 5 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	2,988.63 545.33	1,090.39
27 15 13 00-0316 MLF 6 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	3,287.62 579.47	1,158.11
27 15 13 00-0317 MLF 8 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	3,588.48 648.14	1,296.27
27 15 13 00-0318 MLF 12 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	4,751.22 854.16	1,708.05
27 15 13 00-0319 MLF 24 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	7,061.81 1,261.73	2,523.47
27 15 13 00-0320 #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0277)		
27 15 13 00-0321 MLF 1 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	1,617.71 418.95	838.45
27 15 13 00-0322 MLF 2 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	1,856.02 433.99	868.25
27 15 13 00-0323 MLF 3 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	2,065.44 449.03	898.73
27 15 13 00-0324 MLF 4 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	2,285.47 464.46	929.20
27 15 13 00-0325 MLF 5 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	2,551.63 495.55	991.51
27 15 13 00-0326 MLF 6 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	2,797.56 526.64	1,053.82
27 15 13 00-0327 MLF 8 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	3,077.43 589.22	1,178.44
27 15 13 00-0328 MLF 12 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	4,051.70 776.55	1,553.64
27 15 13 00-0329 MLF 24 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	6,018.61 1,147.14	2,294.55
27 15 13 00-0330 MLF 25 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	6,357.06 1,174.37	2,348.74
27 15 13 00-0331 MLF 36 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	7,550.89 1,367.39	2,734.78
27 15 13 00-0332 MLF 40 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	8,098.94 1,463.69	2,927.12
27 15 13 00-0333 MLF 50 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <i>For Work In Restricted Working Space, Add</i>	9,743.22 1,829.00	3,658.56



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0334	MLF	100 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	13,187.05 2,408.05	4,816.68
27 15 13 00-0335 #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0277)				
27 15 13 00-0336	MLF	1 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	1,372.72 377.10	754.47
27 15 13 00-0337	MLF	2 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	1,460.04 390.51	781.56
27 15 13 00-0338	MLF	3 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	1,564.98 404.33	808.65
27 15 13 00-0339	MLF	4 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	1,678.01 418.14	835.74
27 15 13 00-0340	MLF	5 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	1,851.87 446.18	892.63
27 15 13 00-0341	MLF	6 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit..... <i>For Work In Restricted Working Space, Add</i>	2,026.43 473.00	945.45
27 15 13 00-0342 Triad (27 15 13 00-0277)				
27 15 13 00-0343	MLF	1 Triad #16 AWG, Stranded, Low Voltage, Installed In Conduit	3,173.67	1,122.90
27 15 13 00-0344	MLF	4 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit	4,155.48	1,553.64
27 15 13 00-0345	MLF	8 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit	6,462.95	2,294.55
27 15 13 00-0346	MLF	12 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit	8,021.85	2,734.78
27 15 13 00-0347	MLF	24 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit	13,081.67	4,236.94
27 15 13 00-0348	MLF	36 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit	15,037.08	4,816.68
27 15 13 00-0349 Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0276)				
27 15 13 00-0350 #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0349)				
27 15 13 00-0351	MLF	1 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,954.80	2,681.95
		<i>For #10 AWG, Add</i>	1,053.95	
		<i>For Work In Restricted Working Space, Add</i>	1,341.09	
27 15 13 00-0352	MLF	2 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	5,523.39	2,776.77
		<i>For #10 AWG, Add</i>	1,220.91	
		<i>For Work In Restricted Working Space, Add</i>	1,388.80	
27 15 13 00-0353	MLF	3 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	6,034.75	2,874.30
		<i>For #10 AWG, Add</i>	1,368.88	
		<i>For Work In Restricted Working Space, Add</i>	1,436.74	
27 15 13 00-0354	MLF	4 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	6,573.84	2,971.82
		<i>For #10 AWG, Add</i>	1,525.28	
		<i>For Work In Restricted Working Space, Add</i>	1,486.36	
27 15 13 00-0355	MLF	5 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	7,259.54	3,172.29
		<i>For #10 AWG, Add</i>	1,708.12	
		<i>For Work In Restricted Working Space, Add</i>	1,586.61	
27 15 13 00-0356	MLF	6 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	7,900.80	3,370.05
		<i>For #10 AWG, Add</i>	1,876.90	
		<i>For Work In Restricted Working Space, Add</i>	1,685.47	
27 15 13 00-0357	MLF	8 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	8,687.48	3,770.99
		<i>For #10 AWG, Add</i>	2,049.98	
		<i>For Work In Restricted Working Space, Add</i>	1,885.14	
27 15 13 00-0358	MLF	12 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	11,488.47	4,971.09
		<i>For #10 AWG, Add</i>	2,714.33	
		<i>For Work In Restricted Working Space, Add</i>	2,485.07	
27 15 13 00-0359	MLF	24 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	17,040.05	7,341.50
		<i>For #10 AWG, Add</i>	4,032.97	
		<i>For Work In Restricted Working Space, Add</i>	3,669.80	
27 15 13 00-0360 #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0349)				

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0361	MLF	1 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,372.08	2,346.03
		<i>For Work In Restricted Working Space, Add</i>	1,172.75	
27 15 13 00-0362	MLF	2 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,904.28	2,430.01
		<i>For Work In Restricted Working Space, Add</i>	1,215.01	
27 15 13 00-0363	MLF	3 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,381.05	2,513.99
		<i>For Work In Restricted Working Space, Add</i>	1,257.27	
27 15 13 00-0364	MLF	4 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,881.66	2,600.68
		<i>For Work In Restricted Working Space, Add</i>	1,300.34	
27 15 13 00-0365	MLF	5 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	6,510.13	2,776.77
		<i>For Work In Restricted Working Space, Add</i>	1,388.12	
27 15 13 00-0366	MLF	6 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	7,095.13	2,950.14
		<i>For Work In Restricted Working Space, Add</i>	1,474.26	
27 15 13 00-0367	MLF	8 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	7,796.00	3,299.61
		<i>For Work In Restricted Working Space, Add</i>	1,649.81	
27 15 13 00-0368	MLF	12 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	10,308.85	4,348.01
		<i>For Work In Restricted Working Space, Add</i>	2,174.00	
27 15 13 00-0369	MLF	24 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	15,299.42	6,423.14
		<i>For Work In Restricted Working Space, Add</i>	3,211.84	
27 15 13 00-0370 #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0349)				
27 15 13 00-0371	MLF	1 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,899.60	2,094.09
		<i>For Work In Restricted Working Space, Add</i>	1,047.59	
27 15 13 00-0372	MLF	2 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,270.71	2,169.95
		<i>For Work In Restricted Working Space, Add</i>	1,084.97	
27 15 13 00-0373	MLF	3 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,789.24	2,245.79
		<i>For Work In Restricted Working Space, Add</i>	1,122.36	
27 15 13 00-0374	MLF	4 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,233.68	2,321.65
		<i>For Work In Restricted Working Space, Add</i>	1,161.37	
27 15 13 00-0375	MLF	5 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,789.53	2,478.78
		<i>For Work In Restricted Working Space, Add</i>	1,239.39	
27 15 13 00-0376	MLF	6 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	6,309.18	2,633.19
		<i>For Work In Restricted Working Space, Add</i>	1,316.60	
27 15 13 00-0377	MLF	7 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	6,620.19	2,790.31
		<i>For Work In Restricted Working Space, Add</i>	1,394.61	
27 15 13 00-0378	MLF	8 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	6,933.91	2,947.44
		<i>For Work In Restricted Working Space, Add</i>	1,473.45	
27 15 13 00-0379	MLF	9 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	7,582.53	3,134.36
		<i>For Work In Restricted Working Space, Add</i>	1,566.91	
27 15 13 00-0380	MLF	12 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	9,167.11	3,882.06
		<i>For Work In Restricted Working Space, Add</i>	1,941.16	
27 15 13 00-0381	MLF	24 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	13,603.71	5,735.04
		<i>For Work In Restricted Working Space, Add</i>	2,867.66	
27 15 13 00-0382 #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0349)				
27 15 13 00-0383	MLF	1 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,359.89	1,844.86
		<i>For Work In Restricted Working Space, Add</i>	921.62	
27 15 13 00-0384	MLF	2 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,714.28	1,909.88
		<i>For Work In Restricted Working Space, Add</i>	954.94	
27 15 13 00-0385	MLF	3 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,034.21	1,974.89
		<i>For Work In Restricted Working Space, Add</i>	988.26	
27 15 13 00-0386	MLF	4 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,367.28	2,042.62
		<i>For Work In Restricted Working Space, Add</i>	1,021.58	
27 15 13 00-0387	MLF	5 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,806.41	2,180.78
		<i>For Work In Restricted Working Space, Add</i>	1,090.66	



Communications		27
Structured Cabling		27 10
Communications Horizontal Cabling		27 15

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0388	MLF	6 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	5,219.16 1,158.93	2,316.23
27 15 13 00-0389	MLF	8 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	5,748.94 1,296.28	2,592.55
27 15 13 00-0390	MLF	12 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	7,598.42 1,708.32	3,416.10
27 15 13 00-0391	MLF	24 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	11,267.58 2,523.46	5,046.95
27 15 13 00-0392 #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0349)				
27 15 13 00-0393	MLF	1 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	3,014.22 837.91	1,676.90
27 15 13 00-0394	MLF	2 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	3,302.66 867.98	1,736.50
27 15 13 00-0395	MLF	3 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	3,562.19 898.05	1,797.45
27 15 13 00-0396	MLF	4 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	3,833.70 928.93	1,858.40
27 15 13 00-0397	MLF	5 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	4,203.47 991.10	1,983.02
27 15 13 00-0398	MLF	6 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	4,553.03 1,053.28	2,107.64
27 15 13 00-0399	MLF	8 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	5,041.48 1,178.43	2,356.86
27 15 13 00-0400	MLF	12 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	6,640.19 1,553.09	3,107.27
27 15 13 00-0401	MLF	24 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	9,842.41 2,294.28	4,589.12
27 15 13 00-0402	MLF	25 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	10,271.60 2,348.73	4,697.47
27 15 13 00-0403	MLF	36 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	12,108.87 2,734.79	5,469.56
27 15 13 00-0404	MLF	40 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	12,977.91 2,927.38	5,854.23
27 15 13 00-0405	MLF	50 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	15,839.90 3,658.01	7,317.12
27 15 13 00-0406	MLF	100 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	21,213.88 4,816.10	9,633.35
27 15 13 00-0407 #22 AWG, Shielded, Low Voltage Cable, Installed Exposed (27 15 13 00-0349)				
27 15 13 00-0408	MLF	1 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	2,629.71 754.20	1,508.93
27 15 13 00-0409	MLF	2 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	2,761.74 781.02	1,563.12
27 15 13 00-0410	MLF	3 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	2,912.73 808.65	1,617.30
27 15 13 00-0411	MLF	4 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	3,071.82 836.28	1,671.48
27 15 13 00-0412	MLF	5 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	3,339.13 892.36	1,785.26
27 15 13 00-0413	MLF	6 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed For Work In Restricted Working Space, Add	3,603.10 946.00	1,890.91
27 15 13 00-0414 Triad, Installed Exposed (27 15 13 00-0349)				
27 15 13 00-0415	MLF	1 Triad, #16 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed	3,173.67	1,122.90
27 15 13 00-0416	MLF	4 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed	4,155.48	1,553.64

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0417 MLF 8 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed	6,462.95	2,294.55
27 15 13 00-0418 MLF 12 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed	8,021.85	2,734.78
27 15 13 00-0419 MLF 24 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed	13,081.67	4,236.94
27 15 13 00-0420 MLF 36 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed	15,037.08	4,816.68
27 15 13 00-0421 Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0276)		
27 15 13 00-0422 #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0421)		
27 15 13 00-0423 MLF 1 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,187.21	1,173.02
For Work In Restricted Working Space, Add	586.37	
27 15 13 00-0424 MLF 2 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,454.29	1,215.00
For Work In Restricted Working Space, Add	607.50	
27 15 13 00-0425 MLF 3 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,693.53	1,257.00
For Work In Restricted Working Space, Add	628.63	
27 15 13 00-0426 MLF 4 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,944.74	1,300.34
For Work In Restricted Working Space, Add	650.17	
27 15 13 00-0427 MLF 5 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,257.11	1,387.03
For Work In Restricted Working Space, Add	693.24	
27 15 13 00-0428 MLF 6 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,551.73	1,473.72
For Work In Restricted Working Space, Add	736.73	
27 15 13 00-0429 MLF 8 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,903.79	1,649.81
For Work In Restricted Working Space, Add	824.90	
27 15 13 00-0430 MLF 12 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,162.16	2,174.00
For Work In Restricted Working Space, Add	1,087.00	
27 15 13 00-0431 MLF 24 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	7,661.31	3,211.57
For Work In Restricted Working Space, Add	1,605.92	
27 15 13 00-0432 #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0421)		
27 15 13 00-0433 MLF 1 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,950.82	1,047.04
For Work In Restricted Working Space, Add	523.79	
27 15 13 00-0434 MLF 2 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,186.31	1,084.97
For Work In Restricted Working Space, Add	542.48	
27 15 13 00-0435 MLF 3 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,397.26	1,122.90
For Work In Restricted Working Space, Add	561.18	
27 15 13 00-0436 MLF 4 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,620.28	1,160.82
For Work In Restricted Working Space, Add	580.68	
27 15 13 00-0437 MLF 5 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,897.61	1,238.03
For Work In Restricted Working Space, Add	619.29	
27 15 13 00-0438 MLF 6 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,159.44	1,316.59
For Work In Restricted Working Space, Add	658.30	
27 15 13 00-0439 MLF 7 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,315.08	1,395.16
For Work In Restricted Working Space, Add	697.31	
27 15 13 00-0440 MLF 8 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,537.76	1,473.72
For Work In Restricted Working Space, Add	736.72	
27 15 13 00-0441 MLF 9 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,873.73	1,567.18
For Work In Restricted Working Space, Add	783.41	
27 15 13 00-0442 MLF 12 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,590.38	1,941.03
For Work In Restricted Working Space, Add	970.58	
27 15 13 00-0443 MLF 24 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	6,812.73	2,867.52
For Work In Restricted Working Space, Add	1,434.03	
27 15 13 00-0444 #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0421)		
27 15 13 00-0445 MLF 1 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,707.00	921.07
For Work In Restricted Working Space, Add	460.81	



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0446	MLF	2 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,898.13 477.47	954.93
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0447	MLF	3 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,024.42 494.13	988.80
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0448	MLF	4 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,186.08 510.79	1,021.31
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0449	MLF	5 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,395.53 545.33	1,090.39
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0450	MLF	6 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,603.65 579.47	1,159.47
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0451	MLF	8 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,080.18 648.14	1,296.27
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0452	MLF	12 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,013.83 854.16	1,708.05
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0453	MLF	24 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,479.99 1,261.73	2,523.47
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0454		#20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0421)		
27 15 13 00-0455	MLF	1 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,517.20 418.95	838.45
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0456	MLF	2 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,652.35 433.99	868.25
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0457	MLF	3 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,932.88 494.13	988.80
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0458	MLF	4 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,102.93 519.73	1,039.46
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0459	MLF	5 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,269.93 545.33	1,090.39
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0460	MLF	6 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,455.24 579.47	1,159.47
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0461	MLF	8 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,710.48 645.29	1,290.32
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0462	MLF	12 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,323.79 776.55	1,553.64
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0463	MLF	24 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,926.75 1,147.14	2,294.55
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0464	MLF	25 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,141.98 1,174.37	2,348.74
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0465	MLF	36 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,061.99 1,367.39	2,734.78
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0466	MLF	40 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,497.09 1,463.69	2,927.12
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0467	MLF	50 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,929.16 1,829.00	3,658.56
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0468	MLF	100 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	10,619.98 2,408.05	4,816.68
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0469		#22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0421)		
27 15 13 00-0470	MLF	1 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,337.01 377.10	754.47
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0471	MLF	2 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,411.18 390.51	781.56
		<i>For Work In Restricted Working Space, Add</i>		
27 15 13 00-0472	MLF	3 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,503.43 404.33	808.65
		<i>For Work In Restricted Working Space, Add</i>		

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0473	MLF	4 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,602.51	835.74
		<i>For Work In Restricted Working Space, Add</i>	418.14	
27 15 13 00-0474	MLF	5 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,745.59	892.63
		<i>For Work In Restricted Working Space, Add</i>	446.18	
27 15 13 00-0475	MLF	6 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,895.32	945.45
		<i>For Work In Restricted Working Space, Add</i>	473.00	
27 15 13 00-0476		Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0276)		
27 15 13 00-0477		#14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0476)		
27 15 13 00-0478	MLF	1 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,141.78	2,346.03
		<i>For Work In Restricted Working Space, Add</i>	1,172.75	
27 15 13 00-0479	MLF	2 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,479.31	2,430.01
		<i>For Work In Restricted Working Space, Add</i>	1,215.01	
27 15 13 00-0480	MLF	3 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,788.98	2,513.99
		<i>For Work In Restricted Working Space, Add</i>	1,257.27	
27 15 13 00-0481	MLF	4 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,111.98	2,600.68
		<i>For Work In Restricted Working Space, Add</i>	1,300.34	
27 15 13 00-0482	MLF	5 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,567.93	2,774.06
		<i>For Work In Restricted Working Space, Add</i>	1,386.49	
27 15 13 00-0483	MLF	6 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	6,007.47	2,947.44
		<i>For Work In Restricted Working Space, Add</i>	1,473.45	
27 15 13 00-0484	MLF	8 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	6,653.48	3,299.61
		<i>For Work In Restricted Working Space, Add</i>	1,649.81	
27 15 13 00-0485	MLF	12 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	8,785.49	4,348.01
		<i>For Work In Restricted Working Space, Add</i>	2,174.00	
27 15 13 00-0486	MLF	24 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	13,014.38	6,423.14
		<i>For Work In Restricted Working Space, Add</i>	3,211.84	
27 15 13 00-0487		#16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0476)		
27 15 13 00-0488	MLF	1 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,696.80	2,094.09
		<i>For Work In Restricted Working Space, Add</i>	1,047.59	
27 15 13 00-0489	MLF	2 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,994.60	2,169.95
		<i>For Work In Restricted Working Space, Add</i>	1,084.97	
27 15 13 00-0490	MLF	3 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,267.86	2,245.79
		<i>For Work In Restricted Working Space, Add</i>	1,122.36	
27 15 13 00-0491	MLF	4 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,555.89	2,321.65
		<i>For Work In Restricted Working Space, Add</i>	1,161.37	
27 15 13 00-0492	MLF	5 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,961.89	2,476.06
		<i>For Work In Restricted Working Space, Add</i>	1,238.57	
27 15 13 00-0493	MLF	6 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,353.76	2,633.19
		<i>For Work In Restricted Working Space, Add</i>	1,316.60	
27 15 13 00-0494	MLF	7 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,639.43	2,790.31
		<i>For Work In Restricted Working Space, Add</i>	1,394.61	
27 15 13 00-0495	MLF	8 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,993.51	2,947.44
		<i>For Work In Restricted Working Space, Add</i>	1,473.45	
27 15 13 00-0496	MLF	9 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	6,485.11	3,134.36
		<i>For Work In Restricted Working Space, Add</i>	1,566.83	
27 15 13 00-0497	MLF	12 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	7,825.64	3,882.06
		<i>For Work In Restricted Working Space, Add</i>	1,941.16	
27 15 13 00-0498	MLF	24 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	11,592.82	5,735.04
		<i>For Work In Restricted Working Space, Add</i>	2,868.05	
27 15 13 00-0499		#18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0476)		



Communications		27
Structured Cabling		27 10
Communications Horizontal Cabling		27 15

27

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0500	MLF	1 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,243.02 921.62	1,842.14
27 15 13 00-0501	MLF	2 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,489.69 954.94	1,909.88
27 15 13 00-0502	MLF	3 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,671.51 988.26	1,977.60
27 15 13 00-0503	MLF	4 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,888.70 1,021.58	2,042.62
27 15 13 00-0504	MLF	5 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,213.31 1,090.66	2,180.78
27 15 13 00-0505	MLF	6 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,535.19 1,158.93	2,318.93
27 15 13 00-0506	MLF	8 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	5,240.64 1,296.28	2,592.55
27 15 13 00-0507	MLF	12 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	6,861.03 1,708.32	3,416.10
27 15 13 00-0508	MLF	24 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	9,685.76 2,523.46	5,046.95
27 15 13 00-0509		#20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0476)		
27 15 13 00-0510	MLF	1 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,913.71 837.91	1,676.90
27 15 13 00-0511	MLF	2 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,098.99 867.98	1,736.50
27 15 13 00-0512	MLF	3 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,579.97 988.26	1,977.60
27 15 13 00-0513	MLF	4 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,835.35 1,039.46	2,078.92
27 15 13 00-0514	MLF	5 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,087.71 1,090.66	2,180.78
27 15 13 00-0515	MLF	6 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,386.78 1,158.93	2,318.93
27 15 13 00-0516	MLF	8 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,861.46 1,290.59	2,580.63
27 15 13 00-0517	MLF	12 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	5,912.28 1,553.09	3,107.27
27 15 13 00-0518	MLF	24 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	8,750.55 2,294.28	4,589.12
27 15 13 00-0519	MLF	25 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	9,056.52 2,348.73	4,697.47
27 15 13 00-0520	MLF	36 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	10,619.97 2,734.79	5,469.56
27 15 13 00-0521	MLF	40 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	11,376.06 2,927.38	5,854.23
27 15 13 00-0522	MLF	50 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	14,025.84 3,658.01	7,317.12
27 15 13 00-0523	MLF	100 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	18,646.81 4,816.10	9,633.35
27 15 13 00-0524		#22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed (27 15 13 00-0476)		
27 15 13 00-0525	MLF	1 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,594.00 754.20	1,508.93
27 15 13 00-0526	MLF	2 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,712.88 781.02	1,563.12

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0527	MLF	3 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,851.18	1,617.30
		<i>For Work In Restricted Working Space, Add</i>	808.65	
27 15 13 00-0528	MLF	4 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,996.32	1,671.48
		<i>For Work In Restricted Working Space, Add</i>	836.28	
27 15 13 00-0529	MLF	5 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,232.85	1,785.26
		<i>For Work In Restricted Working Space, Add</i>	892.36	
27 15 13 00-0530	MLF	6 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,471.99	1,890.91
		<i>For Work In Restricted Working Space, Add</i>	946.00	
27 15 13 00-0531		Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench (27 15 13 00-0276) Note: Excludes excavation.		
27 15 13 00-0532	MLF	1 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	2,199.00	
27 15 13 00-0533	MLF	2 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	2,651.25	
27 15 13 00-0534	MLF	3 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	3,049.67	
27 15 13 00-0535	MLF	4 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	3,471.23	
27 15 13 00-0536	MLF	4 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	3,936.55	
27 15 13 00-0537	MLF	6 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	4,362.65	
27 15 13 00-0538		Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial) (27 15 13 00-0276)		
27 15 13 00-0539	MLF	1 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	2,320.57	711.73
27 15 13 00-0540	MLF	2 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	2,844.59	762.52
27 15 13 00-0541	MLF	3 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	3,706.16	963.97
27 15 13 00-0542	MLF	4 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	4,457.33	1,114.95
27 15 13 00-0543	MLF	5 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	7,052.29	1,270.80
27 15 13 00-0544	MLF	6 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial)	8,563.83	1,623.55
27 15 13 00-0545		Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0276)		
27 15 13 00-0546	MLF	1 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,952.86	1,047.04
27 15 13 00-0547	MLF	2 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,297.11	1,084.97
27 15 13 00-0548	MLF	3 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,543.22	1,122.90
27 15 13 00-0549	MLF	4 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,681.57	1,160.82
27 15 13 00-0550	MLF	5 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,165.51	1,238.03
27 15 13 00-0551	MLF	6 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,416.41	1,316.59
27 15 13 00-0552	MLF	8 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,215.54	1,473.72
27 15 13 00-0553	MLF	12 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,275.00	1,941.03
27 15 13 00-0554	MLF	24 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	7,981.95	2,867.52
27 15 13 00-0555	MLF	1 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,693.15	921.07
27 15 13 00-0556	MLF	2 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,976.48	954.93
27 15 13 00-0557	MLF	3 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,212.89	988.80
27 15 13 00-0558	MLF	4 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,335.88	1,021.31
27 15 13 00-0559	MLF	5 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,750.13	1,090.39
27 15 13 00-0560	MLF	6 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,065.56	1,159.47
27 15 13 00-0561	MLF	8 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,458.23	1,296.27
27 15 13 00-0562	MLF	12 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,479.98	1,708.05
27 15 13 00-0563	MLF	24 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	7,086.10	2,523.47
27 15 13 00-0564	MLF	1 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,504.05	838.45
27 15 13 00-0565	MLF	2 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,687.13	868.25
27 15 13 00-0566	MLF	3 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,864.89	898.04
27 15 13 00-0567	MLF	4 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,981.32	929.20



		Communications	27
		Structured Cabling	27 10
		Communications Horizontal Cabling	27 15

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0568 MLF 5 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,150.59	991.51
27 15 13 00-0569 MLF 6 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,338.01	1,053.82
27 15 13 00-0570 MLF 8 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,618.12	1,178.44
27 15 13 00-0571 MLF 12 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,585.71	1,553.64
27 15 13 00-0572 MLF 24 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,425.69	2,294.55
27 15 13 00-0573 MLF 25 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,697.10	2,348.74
27 15 13 00-0574 MLF 36 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,703.09	2,734.78
27 15 13 00-0575 MLF 40 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,229.09	2,927.12
27 15 13 00-0576 MLF 50 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	8,758.12	3,658.56
27 15 13 00-0577 MLF 100 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	11,793.05	4,816.68
27 15 13 00-0578 MLF 250 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	22,610.03	8,872.11
27 15 13 00-0579 MLF 500 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	33,592.84	11,740.99
27 15 13 00-0580 MLF 750 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	44,655.31	14,795.43
27 15 13 00-0581 MLF 1200 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	62,697.75	20,294.79
27 15 13 00-0582 MLF 1 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,465.31	838.45
27 15 13 00-0583 MLF 2 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,600.46	868.25
27 15 13 00-0584 MLF 3 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,732.24	898.04
27 15 13 00-0585 MLF 4 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,825.26	929.20
27 15 13 00-0586 MLF 5 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,971.13	991.51
27 15 13 00-0587 MLF 6 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,128.10	1,053.82
27 15 13 00-0588 MLF 8 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,382.44	1,178.44
27 15 13 00-0589 MLF 12 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,226.39	1,553.64
27 15 13 00-0590 MLF 24 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,848.49	2,294.55
27 15 13 00-0591 MLF 25 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,054.81	2,348.74
27 15 13 00-0592 MLF 36 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,955.28	2,734.78
27 15 13 00-0593 MLF 40 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,382.29	2,927.12
27 15 13 00-0594 MLF 50 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,799.13	3,658.56
27 15 13 00-0595 MLF 100 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	10,436.00	4,816.68
27 15 13 00-0596 MLF 250 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	19,738.16	8,872.11
27 15 13 00-0597 MLF 500 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	28,522.51	11,740.99
27 15 13 00-0598 MLF 750 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	37,428.10	14,795.43
27 15 13 00-0599 MLF 1200 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	52,263.95	20,294.79
27 15 13 00-0600 Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0276)		
27 15 13 00-0601 MLF 1 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,052.25	1,047.04
27 15 13 00-0602 MLF 2 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,357.48	1,084.97
27 15 13 00-0603 MLF 3 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,546.53	1,122.90
27 15 13 00-0604 MLF 4 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,800.30	1,160.82
27 15 13 00-0605 MLF 5 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,100.67	1,238.03
27 15 13 00-0606 MLF 6 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,398.34	1,316.59
27 15 13 00-0607 MLF 8 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,103.34	1,473.72
27 15 13 00-0608 MLF 12 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,327.13	1,941.03

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0609 MLF 24 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	7,948.55	2,867.52
27 15 13 00-0610 MLF 1 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,796.38	921.07
27 15 13 00-0611 MLF 2 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,058.38	954.93
27 15 13 00-0612 MLF 3 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,221.65	988.80
27 15 13 00-0613 MLF 4 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,438.79	1,021.31
27 15 13 00-0614 MLF 5 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,697.54	1,090.39
27 15 13 00-0615 MLF 6 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,954.97	1,159.47
27 15 13 00-0616 MLF 8 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,560.92	1,296.27
27 15 13 00-0617 MLF 12 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,624.71	1,708.05
27 15 13 00-0618 MLF 24 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	6,898.96	2,523.47
27 15 13 00-0619 MLF 1 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,580.28	838.45
27 15 13 00-0620 MLF 2 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,805.71	868.25
27 15 13 00-0621 MLF 3 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,963.57	898.04
27 15 13 00-0622 MLF 4 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,250.32	929.20
27 15 13 00-0623 MLF 5 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,501.67	991.51
27 15 13 00-0624 MLF 6 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,985.66	1,053.82
27 15 13 00-0625 MLF 8 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,337.06	1,178.44
27 15 13 00-0626 MLF 12 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,214.96	1,553.64
27 15 13 00-0627 MLF 24 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	6,358.57	2,294.55
27 15 13 00-0628 MLF 25 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	6,733.70	2,348.74
27 15 13 00-0629 MLF 36 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	8,012.68	2,734.78
27 15 13 00-0630 MLF 40 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	8,595.75	2,927.12
27 15 13 00-0631 MLF 50 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	10,305.82	3,658.56
27 15 13 00-0632 MLF 100 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	13,983.21	4,816.68
27 15 13 00-0633 MLF 250 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	27,245.47	8,872.11
27 15 13 00-0634 MLF 500 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	41,776.64	11,740.99
27 15 13 00-0635 MLF 750 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	56,319.16	14,795.43
27 15 13 00-0636 MLF 1200 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	79,537.06	20,293.42
27 15 13 00-0637 MLF 1 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,514.06	838.45
27 15 13 00-0638 MLF 2 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,676.33	868.25
27 15 13 00-0639 MLF 3 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,795.37	898.04
27 15 13 00-0640 MLF 4 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,997.33	929.20
27 15 13 00-0641 MLF 5 Pair #22 AWG, Solid, Low Voltage, Plenum Rated, Non-Shielded, Installed In Conduit	2,195.70	991.51
27 15 13 00-0642 MLF 6 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,542.39	1,053.82
27 15 13 00-0643 MLF 8 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,842.34	1,178.44
27 15 13 00-0644 MLF 12 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,628.91	1,553.64
27 15 13 00-0645 MLF 24 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,445.23	2,294.55
27 15 13 00-0646 MLF 25 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,717.90	2,348.74
27 15 13 00-0647 MLF 36 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	6,767.86	2,734.78
27 15 13 00-0648 MLF 40 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	7,256.51	2,927.12
27 15 13 00-0649 MLF 50 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	8,789.16	3,658.56
27 15 13 00-0650 MLF 100 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	11,837.00	4,816.68



Communications			27
Structured Cabling			27 10
Communications Horizontal Cabling			27 15

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0651	MLF	250 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	22,703.10	8,872.11
27 15 13 00-0652	MLF	500 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	33,757.42	11,740.99
27 15 13 00-0653	MLF	750 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	44,889.42	14,795.43
27 15 13 00-0654	MLF	1200 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	63,036.46	20,294.79
27 15 13 00-0655		Sound System Cables (27 15 13) Note: Cables shall be type CL2 or CM and as manufactured by West Penn Wire, Belden or approved equal.		
27 15 13 00-0656		Speaker/Communications And Control Cable, Installed Exposed (27 15 13 00-0655)		
27 15 13 00-0657		Non-Plenum Rated Speaker/Communications And Control Cable, Installed Exposed (27 15 13 00-0656)		
27 15 13 00-0658	MLF	2 Conductor, #16 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,219.47	948.17
		<i>For Work In Restricted Working Space, Add</i>	568.90	
27 15 13 00-0659	MLF	2 Conductor, #18 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,110.48	948.17
		<i>For Work In Restricted Working Space, Add</i>	568.90	
27 15 13 00-0660	MLF	2 Conductor, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,026.41	948.17
		<i>For Work In Restricted Working Space, Add</i>	568.90	
27 15 13 00-0661	MLF	4 Conductor, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,118.35	948.17
		<i>For Work In Restricted Working Space, Add</i>	568.90	
27 15 13 00-0662	MLF	4 Conductor, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,413.83	948.17
		<i>For Work In Restricted Working Space, Add</i>	568.90	
27 15 13 00-0663	MLF	6 Conductor, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,708.35	948.17
		<i>For Work In Restricted Working Space, Add</i>	568.90	
27 15 13 00-0664	MLF	4 Conductor, #20 AWG, Stranded, 2 Shielded, 2 Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,415.08	948.17
		<i>For Work In Restricted Working Space, Add</i>	568.90	
27 15 13 00-0665	MLF	4 Conductor, #22 AWG, Stranded, 2 Shielded, 2 Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,273.19	948.17
		<i>For Work In Restricted Working Space, Add</i>	568.90	
27 15 13 00-0666		Plenum Rated Speaker/Communications And Control Cable, Installed Exposed (27 15 13 00-0656)		
27 15 13 00-0667	MLF	2 Conductor, #16 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,264.50	948.17
		<i>For Work In Restricted Working Space, Add</i>	568.90	
27 15 13 00-0668	MLF	2 Conductor, #18 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,139.12	948.17
		<i>For Work In Restricted Working Space, Add</i>	568.90	
27 15 13 00-0669	MLF	2 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,068.15	948.17
		<i>For Work In Restricted Working Space, Add</i>	568.90	
27 15 13 00-0670	MLF	4 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,186.57	948.17
		<i>For Work In Restricted Working Space, Add</i>	568.90	
27 15 13 00-0671	MLF	8 Conductors, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,436.76	948.17
		<i>For Work In Restricted Working Space, Add</i>	568.90	
27 15 13 00-0672	MLF	2 Conductors, #16 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,409.16	948.17
		<i>For Work In Restricted Working Space, Add</i>	568.90	
27 15 13 00-0673	MLF	2 Conductors, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,235.73	948.17
		<i>For Work In Restricted Working Space, Add</i>	568.90	
27 15 13 00-0674	MLF	4 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,530.53	948.17
		<i>For Work In Restricted Working Space, Add</i>	568.90	
27 15 13 00-0675	MLF	6 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,824.51	948.17
		<i>For Work In Restricted Working Space, Add</i>	568.90	
27 15 13 00-0676	MLF	2 Conductor, #22 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,103.74	948.17
		<i>For Work In Restricted Working Space, Add</i>	568.90	
27 15 13 00-0677	MLF	2 Conductor, #20 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed	2,162.32	948.17
		<i>For Work In Restricted Working Space, Add</i>	568.90	
27 15 13 00-0678		Speaker/Communications And Control Cable, Installed In Conduit (27 15 13 00-0655)		
27 15 13 00-0679		Non-Plenum Rated Speaker/Communications And Control Cable, Installed In Conduit (27 15 13 00-0678)		

27 Communications**27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0680	MLF	2 Conductors, #16 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,271.31	474.08
27 15 13 00-0681	MLF	2 Conductors, #18 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,162.32	474.08
27 15 13 00-0682	MLF	2 Conductors, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,078.25	474.08
27 15 13 00-0683	MLF	4 Conductors, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,170.19	474.08
27 15 13 00-0684	MLF	4 Conductors, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,465.67	474.08
27 15 13 00-0685	MLF	6 Conductors, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,760.19	474.08
27 15 13 00-0686	MLF	4 Conductors (2 Shielded, 2 Unshielded), #20 AWG, Stranded, Non-Plenum Rated, Microphone/Communications Cable, Installed In Conduit.....	1,466.92	474.08
27 15 13 00-0687	MLF	4 Conductors (2 Shielded, 2 Unshielded), #22 AWG, Stranded, Non-Plenum Rated, Microphone/Communications Cable, Installed In Conduit.....	1,325.03	474.08
27 15 13 00-0688 Plenum Rated Speaker/Communications And Control Cable, Installed In Conduit (27 15 13 00-0678)				
27 15 13 00-0689	MLF	2 Conductor, #6 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,316.34	474.08
27 15 13 00-0690	MLF	2 Conductor, #18 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,190.96	474.08
27 15 13 00-0691	MLF	2 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,119.99	474.08
27 15 13 00-0692	MLF	4 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,238.41	474.08
27 15 13 00-0693	MLF	8 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,488.60	474.08
27 15 13 00-0694	MLF	2 Conductor, #16 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,461.00	474.08
27 15 13 00-0695	MLF	2 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,287.57	474.08
27 15 13 00-0696	MLF	4 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,582.37	474.08
27 15 13 00-0697	MLF	6 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,876.35	474.08
27 15 13 00-0698	MLF	2 Conductor, #20 AWG, Stranded, Shielded, Plenum Rated, Microphone/Communications And Control Cable, Installed In Conduit.....	1,214.16	474.08
27 15 13 00-0699	MLF	2 Conductor, #22 AWG, Stranded, Shielded, Plenum Rated, Microphone/Communications And Control Cable, Installed In Conduit.....	1,155.58	474.08
27 15 33 Communications Coaxial Horizontal Cabling (27 15)				
Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.				
27 15 33 00-0001 Indoor Coaxial Cable (27 15 33)				
27 15 33 00-0002 Coaxial Distribution Cable (27 15 33 00-0001)				
Note: Cables shall be as Belden, Times Fiber, West Penn or approved equal. For tasks installed in conduit, tasks exclude conduit.				
27 15 33 00-0003	MLF	RG-6/U Coaxial Distribution Cable, Installed In Conduit.....	2,189.12	433.45
27 15 33 00-0004	MLF	RG-6A/U Coaxial Distribution Cable, Installed In Conduit.....	6,786.13	433.45
27 15 33 00-0005	MLF	RG-8/U Coaxial Distribution Cable, Installed In Conduit.....	3,832.86	457.83
27 15 33 00-0006	MLF	RG-8A/U Coaxial Distribution Cable, Installed In Conduit.....	4,696.38	457.83
27 15 33 00-0007	MLF	RG-11/U Coaxial Distribution Cable, Installed In Conduit.....	4,328.01	541.80
27 15 33 00-0008	MLF	RG-11A/U Coaxial Distribution Cable, Installed In Conduit.....	5,997.98	541.80
27 15 33 00-0009	MLF	RG-11/U Coaxial Distribution Cable, Plenum Rated, Installed Exposed.....	12,510.24	758.53
27 15 33 00-0010	MLF	RG-58/U Coaxial Distribution Cable, Installed In Conduit.....	1,681.33	379.27
27 15 33 00-0011	MLF	RG-58A/U Coaxial Distribution Cable, Installed In Conduit.....	1,852.45	379.27
27 15 33 00-0012	MLF	RG-58C/U Coaxial Distribution Cable, Installed In Conduit.....	2,153.87	379.27
27 15 33 00-0013	MLF	RG-58/U Coaxial Distribution Cable, Plenum Rated, Installed Exposed.....	5,070.89	758.53
27 15 33 00-0014	MLF	RG-59/U Coaxial Distribution Cable, Installed In Conduit.....	2,480.75	379.27
27 15 33 00-0015	MLF	RG-59/U Coaxial Distribution Cable, Plenum Rated, Installed Exposed.....	5,967.74	758.53
27 15 33 00-0016	MLF	1/2" Hard Line Coaxial, Installed In Conduit.....	2,328.95	541.80
27 15 33 00-0017 Coaxial, Indoor Telecommunications Cable (27 15 33 00-0001)				
27 15 33 00-0018 Coaxial, Indoor Telecommunications Cable, Installed In Conduit (27 15 33 00-0017)				
27 15 33 00-0019	MLF	RG 59/U Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 9108).....	1,516.82	622.63
27 15 33 00-0020	MLF	RG 59/U Plenum Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 82108).....	2,883.41	622.63
27 15 33 00-0021	MLF	RG 6/U Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 9114).....	1,416.65	711.57
27 15 33 00-0022	MLF	RG 6/U Plenum Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 82120).....	3,569.96	711.57
27 15 33 00-0023 Coaxial, Indoor Telecommunications Cable, Installed Exposed (27 15 33 00-0017)				
27 15 33 00-0024	MLF	RG 59/U Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 9108).....	2,554.52	1,245.25
		<i>For Work In Restricted Working Space, Add</i>	622.62	
27 15 33 00-0025	MLF	RG 59/U Plenum Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 82108).....	3,921.11	1,245.25
		<i>For Work In Restricted Working Space, Add</i>	622.62	



Communications		27	27
Structured Cabling		27 10	
Communications Horizontal Cabling		27 15	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 33 00-0026 MLF RG 6/U Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 9114)..... <i>For Work In Restricted Working Space, Add</i>	2,602.61 711.57	1,423.14
27 15 33 00-0027 MLF RG 6/U Plenum Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 82120)..... <i>For Work In Restricted Working Space, Add</i>	4,755.92 711.57	1,423.14
27 15 33 00-0028 Outdoor Coaxial Cable (27 15 33)		
27 15 33 00-0029 Coaxial Cables "Television" Copper Covered Aluminum Center Core (27 15 33 00- 0029) Note: Corrugated steel armor jacket.		
27 15 33 00-0030 MLF TV Coaxial Trunk Cable 3/4" Diameter, Direct Burial.....	6,972.62	2,027.99
27 15 33 00-0031 MLF TV Coaxial Distribution Cable 1/2" Diameter, Direct Burial	4,542.15	1,426.44
27 15 33 00-0032 MLF TV Coaxial Distribution Cable 3/8" Diameter, Direct Burial.....	3,478.53	841.57
27 15 33 00-0033 MLF TV Coaxial Cable Drop 1/4" Diameter, Direct Burial	2,279.91	841.57
27 15 33 00-0034 MLF 1/4" Diameter, TV Coaxial Cable Drop, Installed In Conduit.....	3,463.43	1,314.97

END OF SECTION 27

27	27	Communications
	27 10	Structured Cabling
	27 15	Communications Horizontal Cabling



MINOR				TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION				UNIT COST		UNIT COST

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		Earthwork	31
		Maintenance of Earthwork	31 01
		Maintenance of Earth Moving	31 01 20

15

MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST

31 Earthwork

31 01 Maintenance of Earthwork⁽³¹⁾

31 01 20 Maintenance of Earth Moving^(31 01)

31 01 20 00-0001	Rip Settling Basins ^(31 01 20)	
Note: Rip through light soil and sand in settling basin. 8' on center (machine width).		
31 01 20 00-0002	ACR Rip Light Soil And Sand, By Dozer	663.77
31 01 20 00-0003	ACR Rip Light Soil And Sand, By Grader With Rear Ripper	1,032.58
31 01 20 00-0004	ACR Rip Light Soil And Sand, By Rubber Tire Front End Loader	879.78

31 05 Common Work Results for Earthwork⁽³¹⁾

31 05 13 Soils for Earthwork^(31 05)

Note: Includes delivery up to 15 miles from the closest approved source and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0029 for hauling greater than 15 miles.

31 05 13 00-0001	Fill Material (Loose, Purchased Material) ^(31 05 13)	
Note: Includes delivery up to 15 miles from the closest approved source, loading and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0029 for hauling greater than 15 miles.		
31 05 13 00-0002	CY Bank Run/Fill Sand	38.86
	For Up To 8, Add	7.77
	For >8 To 16, Add	3.89
	For >48 To 64, Deduct	-2.79
	For >64 To 96, Deduct	-4.73
	For >96, Deduct	-6.67
31 05 13 00-0003	CY Screened/Washed Filter/Septic Sand	46.44
	For Up To 8, Add	9.29
	For >8 To 16, Add	4.64
	For >48 To 64, Deduct	-3.17
	For >64 To 96, Deduct	-5.49
	For >96, Deduct	-7.81
31 05 13 00-0004	CY 3/8" Minus, ASTM C33, Screened/Washed Bedding Sand	64.62
	For Up To 8, Add	12.92
	For >8 To 16, Add	6.46
	For >48 To 64, Deduct	-4.08
	For >64 To 96, Deduct	-7.31
	For >96, Deduct	-10.54
31 05 13 00-0005	CY 3/16" Minus, Screened/Washed Concrete Sand	57.80
	For Up To 8, Add	11.56
	For >8 To 16, Add	5.78
	For >48 To 64, Deduct	-3.73
	For >64 To 96, Deduct	-6.62
	For >96, Deduct	-9.51
31 05 13 00-0006	CY 3/32" Minus, Screened/Washed Masonry/Mortar Sand	104.77
	For Up To 8, Add	20.95
	For >8 To 16, Add	10.48
	For >48 To 64, Deduct	-6.08
	For >64 To 96, Deduct	-11.32
	For >96, Deduct	-16.56
31 05 13 00-0007	CY Common Fill, Native Soil/Dirt	48.71
	For Up To 8, Add	9.74
	For >8 To 16, Add	4.87
	For >48 To 64, Deduct	-3.28
	For >64 To 96, Deduct	-5.72
	For >96, Deduct	-8.15
31 05 13 00-0008	CY Lime Rock Screening	43.94
	For Up To 8, Add	8.79
	For >8 To 16, Add	4.39
	For >48 To 64, Deduct	-3.04
	For >64 To 96, Deduct	-5.24
	For >96, Deduct	-7.44
31 05 13 00-0009	CY Crushed Lime Rock Maximum 3-1/2"	43.94
	For Up To 8, Add	8.79
	For >8 To 16, Add	4.39
	For >48 To 64, Deduct	-3.04
	For >64 To 96, Deduct	-5.24
	For >96, Deduct	-7.44
31 05 13 00-0010	CY Sand/Clay	38.38
	For Up To 8, Add	7.68
	For >8 To 16, Add	3.84
	For >48 To 64, Deduct	-2.76
	For >64 To 96, Deduct	-4.68
	For >96, Deduct	-6.60
31 05 13 00-0011	CY Recycled Concrete Aggregate	39.24
	For Up To 8, Add	7.85
	For >8 To 16, Add	3.92
	For >48 To 64, Deduct	-2.81
	For >64 To 96, Deduct	-4.77
	For >96, Deduct	-6.73

31 Earthwork**31 05 Common Work Results for Earthwork****31 05 13 Soils for Earthwork**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 13 00-0012 CY Pitrun Clay	71.44	
For Up To 8, Add	14.29	
For >8 To 16, Add	7.14	
For >48 To 64, Deduct	-4.42	
For >64 To 96, Deduct	-7.99	
For >96, Deduct	-11.56	
31 05 13 00-0013 CY Light Clay / Loam	57.72	
For Up To 8, Add	11.54	
For >8 To 16, Add	5.77	
For >48 To 64, Deduct	-3.73	
For >64 To 96, Deduct	-6.62	
For >96, Deduct	-9.50	
31 05 13 00-0014 CY Heavy Clay	71.44	
For Up To 8, Add	14.29	
For >8 To 16, Add	7.14	
For >48 To 64, Deduct	-4.42	
For >64 To 96, Deduct	-7.99	
For >96, Deduct	-11.56	

31 05 16 Aggregates for Earthwork (31 05)

See CSI section 01 74 19 00-0029 for hauling greater than 15 miles.

31 05 16 00-0001 Aggregate (Loose, Purchased Material) (31 05 16)

Note: Includes delivery up to 15 miles from the closest approved source, loading and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0029 for hauling greater than 15 miles.

31 05 16 00-0002 CY #2 Stone Aggregate Fill (1-1/2" To 2-1/2" Clean)	59.32	
For Up To 8, Add	11.86	
For >8 To 16, Add	5.93	
For >48 To 64, Deduct	-3.81	
For >64 To 96, Deduct	-6.78	
For >96, Deduct	-9.74	
31 05 16 00-0003 CY #3 Stone Aggregate Fill (1" To 2" Clean)	61.80	
For Up To 8, Add	12.36	
For >8 To 16, Add	6.18	
For >48 To 64, Deduct	-3.93	
For >64 To 96, Deduct	-7.02	
For >96, Deduct	-10.11	
31 05 16 00-0004 CY #4 Stone Aggregate Fill (3/4" To 1-1/2" Clean)	59.32	
For Up To 8, Add	11.86	
For >8 To 16, Add	5.93	
For >48 To 64, Deduct	-3.81	
For >64 To 96, Deduct	-6.78	
For >96, Deduct	-9.74	
31 05 16 00-0005 CY #5 Stone Aggregate Fill (1/2" To 1" Clean)	63.60	
For Up To 8, Add	12.72	
For >8 To 16, Add	6.36	
For >48 To 64, Deduct	-4.02	
For >64 To 96, Deduct	-7.20	
For >96, Deduct	-10.38	
31 05 16 00-0006 CY #6 Stone Aggregate Fill (3/8" To 3/4" Clean)	66.13	
For Up To 8, Add	13.23	
For >8 To 16, Add	6.61	
For >48 To 64, Deduct	-4.15	
For >64 To 96, Deduct	-7.46	
For >96, Deduct	-10.76	
31 05 16 00-0007 CY #56 Stone Aggregate Fill (3/8" To 1")	64.00	
For Up To 8, Add	12.80	
For >8 To 16, Add	6.40	
For >48 To 64, Deduct	-4.04	
For >64 To 96, Deduct	-7.24	
For >96, Deduct	-10.44	
31 05 16 00-0008 CY #57 Stone Aggregate Fill (3/8" To 1")	68.41	
For Up To 8, Add	13.68	
For >8 To 16, Add	6.84	
For >48 To 64, Deduct	-4.27	
For >64 To 96, Deduct	-7.69	
For >96, Deduct	-11.11	
31 05 16 00-0009 CY #67 Or #68 Stone Aggregate Fill (3/16" To 3/4")	61.66	
For Up To 8, Add	12.33	
For >8 To 16, Add	6.17	
For >48 To 64, Deduct	-3.93	
For >64 To 96, Deduct	-7.01	
For >96, Deduct	-10.09	
31 05 16 00-0010 CY #7 Stone Aggregate Fill (3/8" To 1/2")	62.89	
For Up To 8, Add	12.58	
For >8 To 16, Add	6.29	
For >48 To 64, Deduct	-3.99	
For >64 To 96, Deduct	-7.13	
For >96, Deduct	-10.28	
31 05 16 00-0011 CY #78 Stone Aggregate Fill (3/32" To 1/2")	63.42	
For Up To 8, Add	12.68	
For >8 To 16, Add	6.34	
For >48 To 64, Deduct	-4.02	
For >64 To 96, Deduct	-7.19	
For >96, Deduct	-10.36	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 16 00-0012	CY		#8 Stone Aggregate Fill (3/32" To 3/8")	66.13	
			For Up To 8, Add	13.23	
			For >8 To 16, Add	6.61	
			For >48 To 64, Deduct	-4.15	
			For >64 To 96, Deduct	-7.46	
			For >96, Deduct	-10.76	
31 05 16 00-0013	CY		#89 Stone Aggregate Fill (1/16" To 3/8")	66.89	
			For Up To 8, Add	13.38	
			For >8 To 16, Add	6.69	
			For >48 To 64, Deduct	-4.19	
			For >64 To 96, Deduct	-7.53	
			For >96, Deduct	-10.88	
31 05 16 00-0014	CY		#9 Stone Aggregate Fill (3/32" To 3/16")	66.13	
			For Up To 8, Add	13.23	
			For >8 To 16, Add	6.61	
			For >48 To 64, Deduct	-4.15	
			For >64 To 96, Deduct	-7.46	
			For >96, Deduct	-10.76	
31 05 16 00-0015	CY		#10 Stone Aggregate Fill (1/16" To 3/16")	67.69	
			For Up To 8, Add	13.54	
			For >8 To 16, Add	6.77	
			For >48 To 64, Deduct	-4.23	
			For >64 To 96, Deduct	-7.61	
			For >96, Deduct	-11.00	
31 05 16 00-0016	CY		#610 Modified Stone Aggregate Fill (1/16" To 3/4")	66.89	
			For Up To 8, Add	13.38	
			For >8 To 16, Add	6.69	
			For >48 To 64, Deduct	-4.19	
			For >64 To 96, Deduct	-7.53	
			For >96, Deduct	-10.88	
31 05 16 00-0017	CY		Screenings Stone Aggregate Fill (3/16" Max)	55.83	
			For Up To 8, Add	11.17	
			For >8 To 16, Add	5.58	
			For >48 To 64, Deduct	-3.64	
			For >64 To 96, Deduct	-6.43	
			For >96, Deduct	-9.22	
31 05 16 00-0018	CY		Over 6" To 12" Stone Aggregate Fill, Random Size	60.83	
			For Up To 8, Add	12.17	
			For >8 To 16, Add	6.08	
			For >48 To 64, Deduct	-3.89	
			For >64 To 96, Deduct	-6.93	
			For >96, Deduct	-9.97	
31 05 16 00-0019	CY		Over 6" To 12" Graded Stone Aggregate Fill	60.83	
			For Up To 8, Add	12.17	
			For >8 To 16, Add	6.08	
			For >48 To 64, Deduct	-3.89	
			For >64 To 96, Deduct	-6.93	
			For >96, Deduct	-9.97	
31 05 16 00-0020	CY		3" To 7" Surge Stone Aggregate Fill, Random Size	65.83	
			For Up To 8, Add	13.17	
			For >8 To 16, Add	6.58	
			For >48 To 64, Deduct	-4.14	
			For >64 To 96, Deduct	-7.43	
			For >96, Deduct	-10.72	
31 05 16 00-0021	CY		3" To 7" Surge Stone Graded Aggregate Fill	69.39	
			For Up To 8, Add	13.88	
			For >8 To 16, Add	6.94	
			For >48 To 64, Deduct	-4.31	
			For >64 To 96, Deduct	-7.78	
			For >96, Deduct	-11.25	
31 05 16 00-0022	CY		Crusher Run Aggregate Fill (2-1/2" Minus)	38.42	
			For Up To 8, Add	7.68	
			For >8 To 16, Add	3.84	
			For >48 To 64, Deduct	-2.77	
			For >64 To 96, Deduct	-4.69	
			For >96, Deduct	-6.61	
31 05 16 00-0023	CY		Crusher Run Aggregate Fill (1-1/2" Minus)	42.35	
			For Up To 8, Add	8.47	
			For >8 To 16, Add	4.24	
			For >48 To 64, Deduct	-2.96	
			For >64 To 96, Deduct	-5.08	
			For >96, Deduct	-7.20	
31 05 16 00-0024	CY		Crusher Run Aggregate Fill (3/4" Minus)	39.80	
			For Up To 8, Add	7.96	
			For >8 To 16, Add	3.98	
			For >48 To 64, Deduct	-2.83	
			For >64 To 96, Deduct	-4.82	
			For >96, Deduct	-6.81	
31 05 16 00-0025	CY		Miscellaneous Crushed Base, Processed Concrete, Paving	62.87	
			For Up To 8, Add	12.57	
			For >8 To 16, Add	6.29	
			For >48 To 64, Deduct	-3.99	
			For >64 To 96, Deduct	-7.13	
			For >96, Deduct	-10.28	

31 Earthwork**31 05 Common Work Results for Earthwork****31 05 36 Equipment Delivery, Pickup, Mobilization and Demobilization**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

31 05 36 Equipment Delivery, Pickup, Mobilization and Demobilization ⁽³¹⁾

⁽⁰⁵⁾
See CSI section 01 71 13 00-0001 for equipment delivery, pickup, mobilization and demobilization.

31 10 Site Clearing ⁽³¹⁾**31 11 Clearing and Grubbing ^(31 10)****31 11 00 00-0001 Clear And Grub Roots And Stumps ^(31 11)**

Note: Tree diameter (diameter at breast height) is the diameter of the tree trunk measured at 4.5' above ground level. Based on tree density (light, medium or heavy) to be removed. Excludes loading. See CSI section 31 13 13 00-0001 for small areas or individual trees removal.

31 11 00 00-0002	ACR	Clear And Grub Light Trees Up To 6" Diameter, Cut And Chip	7,300.43
		Note: Includes grub and removal of stump	
31 11 00 00-0003	ACR	Clear And Grub Light Stumps Only Up To 6" Diameter	2,200.03
31 11 00 00-0004	ACR	Clear And Grub Medium Trees Up To 10" Diameter, Cut And Chip	9,733.90
		Note: Includes grub and removal of stump	
31 11 00 00-0005	ACR	Clear And Grub Medium Stumps Only Up To 10" Diameter	3,666.70
31 11 00 00-0006	ACR	Clear And Grub Heavy Trees Up To 16" Diameter, Cut And Chip	13,384.12
		Note: Includes grub and removal of stump	
31 11 00 00-0007	ACR	Clear And Grub Heavy Stumps Only Up To 16" Diameter	5,500.06
31 11 00 00-0008	ACR	Clear And Grub Heavy Trees Up To 24" Diameter, Cut And Chip	19,467.81
		Note: Includes grub and removal of stump	
31 11 00 00-0009	ACR	Clear And Grub Heavy Stumps Only Up To 24" Diameter	7,700.08
31 11 00 00-0010	ACR	Clearing By Machine - Light Brush Without Grub	319.57
31 11 00 00-0011	ACR	Clearing By Machine - Medium Brush Without Grub	668.47
31 11 00 00-0012	ACR	Clearing By Machine - Heavy Brush Without Grub	952.48
31 11 00 00-0013	ACR	Chipping - Light Brush	2,596.17
31 11 00 00-0014	ACR	Chipping - Medium Brush	3,338.11
31 11 00 00-0015	ACR	Chipping - Heavy Brush	4,673.77

31 11 00 00-0016 Loading Of Cleared And Grubbed Material ^(31 11)

See CSI section 01 74 19 00-0029 for hauling.

31 11 00 00-0017	CY	Machine Loading Of Cleared And Grubbed Material	11.22
31 11 00 00-0018	CY	Chute Loading Of Cleared And Grubbed Material	13.47
31 11 00 00-0019	CY	Hand Loading Of Cleared And Grubbed Material	38.99
31 11 00 00-0020	CY	Wheel And Ramp Loading Of Cleared And Grubbed Material	30.64

31 13 Selective Tree and Shrub Removal and Trimming ^(31 10)**31 13 13 Selective Tree and Shrub Removal ^(31 13)****31 13 13 00-0001 Individual Tree Removal ^(31 13 13)**

Note: Includes sawing and chipping branches. Tree diameter, D.B.H. (Diameter At Breast Height) is the diameter of the tree trunk measured at 4.5' above ground elevation. Excludes stump removal or grinding.

31 13 13 00-0002	EA	Up To 6" D.B.H. (Diameter At Breast Height) Tree Removal	608.37
		Note: Includes cutting up tree, chipping and loading.	
31 13 13 00-0003	EA	>6" To 12" D.B.H. (Diameter At Breast Height) Tree Removal	912.55
		Note: Includes cutting up tree, chipping and loading.	
31 13 13 00-0004	EA	>12" To 24" D.B.H. (Diameter At Breast Height) Tree Removal	1,216.74
		Note: Includes cutting up tree, chipping and loading.	
31 13 13 00-0005	EA	>24" To 36" D.B.H. (Diameter At Breast Height) Tree Removal	1,825.11
		Note: Includes cutting up tree, chipping and loading.	
31 13 13 00-0006	EA	>36" To 48" D.B.H. (Diameter At Breast Height) Tree Removal	2,433.47
		Note: Includes cutting up tree, chipping and loading.	
31 13 13 00-0007	EA	>48" To 60" D.B.H. (Diameter At Breast Height) Tree Removal	3,041.84
		Note: Includes cutting up tree, chipping and loading.	
		For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	-760.46
31 13 13 00-0008	EA	>60" To 72" D.B.H. (Diameter At Breast Height) Tree Removal	3,650.22
		Note: Includes cutting up tree, chipping and loading.	
		For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	-912.56
31 13 13 00-0009	EA	>72" To 84" D.B.H. (Diameter At Breast Height) Tree Removal	4,866.95
		Note: Includes cutting up tree, chipping and loading.	
		For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct	-1,216.74

31 13 13 00-0010 Stump Removal ^(31 13 13)

Note: Measured by diameter of stump.

31 13 13 00-0011 Stump Removal By Machine ^(31 13 13 00-0010)

31 13 13 00-0012	EA	Up To 6" Diameter Stump Removal	110.00
		Note: Includes excavation necessary to remove stump and loading.	
31 13 13 00-0013	EA	>6" To 12" Diameter Stump Removal	210.84
		Note: Includes excavation necessary to remove stump and loading.	
31 13 13 00-0014	EA	>12" To 24" Diameter Stump Removal	275.01
		Note: Includes excavation necessary to remove stump and loading.	
31 13 13 00-0015	EA	>24" To 36" Diameter Stump Removal	412.52
		Note: Includes excavation necessary to remove stump and loading.	
31 13 13 00-0016	EA	>36" To 48" Diameter Stump Removal	485.87
		Note: Includes excavation necessary to remove stump and loading.	



		Earthwork	31	15
		Site Clearing	31 10	
		Selective Tree and Shrub Removal and Trimming	31 13	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 13 13 00-0017	EA	>48" To 60" Diameter Stump Removal..... Note: Includes excavation necessary to remove stump and loading.	572.00	
31 13 13 00-0018	EA	>60" To 72" Diameter Stump Removal..... Note: Includes excavation necessary to remove stump and loading.	678.34	
31 13 13 00-0019	EA	>72" To 84" Diameter Stump Removal..... Note: Includes excavation necessary to remove stump and loading.	797.51	
31 13 13 00-0020		Stump Removal By Hand (31 13 13 00-0010)		
31 13 13 00-0021	EA	Up To 6" Diameter Stump Removal By Hand..... Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	641.22	
31 13 13 00-0022	EA	>6" To 12" Diameter Stump Removal By Hand..... Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	801.53	
31 13 13 00-0023	EA	>12" To 24" Diameter Stump Removal By Hand..... Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	1,175.57	
31 13 13 00-0024	EA	>24" To 36" Diameter Stump Removal By Hand..... Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	1,603.06	
31 13 13 00-0025	EA	>36" To 48" Diameter Stump Removal By Hand..... Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	2,137.41	
31 13 13 00-0026	EA	>48" To 60" Diameter Stump Removal By Hand..... Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	2,671.76	
31 13 13 00-0027	EA	>60" To 72" Diameter Stump Removal By Hand..... Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	3,206.11	
31 13 13 00-0028	EA	>72" To 84" Diameter Stump Removal By Hand..... Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	3,740.46	
31 13 13 00-0029		Stump Grinding (31 13 13) Note: Measured by diameter of stump.		
31 13 13 00-0030		Stump Grinding, 18" Deep Below Surface Of Soil (31 13 13 00-0029) Note: Level soil to match existing surface area.		
31 13 13 00-0031	EA	Stump Grinding Up To 6" Tree..... For 24" Depth, Add	113.28 22.66	
31 13 13 00-0032	EA	Stump Grinding >6" To 12" Tree..... For 24" Depth, Add	151.04 30.21	
31 13 13 00-0033	EA	Stump Grinding >12" To 15" Tree..... For 24" Depth, Add	169.92 33.98	
31 13 13 00-0034	EA	Stump Grinding >15" To 18" Tree..... For 24" Depth, Add	188.79 37.76	
31 13 13 00-0035	EA	Stump Grinding >18" To 21" Tree..... For 24" Depth, Add	202.95 40.59	
31 13 13 00-0036	EA	Stump Grinding >21" To 24" Tree..... For 24" Depth, Add	217.11 43.42	
31 13 13 00-0037	EA	Stump Grinding >24" To 27" Tree..... For 24" Depth, Add	235.99 47.20	
31 13 13 00-0038	EA	Stump Grinding >27" To 30" Tree..... For 24" Depth, Add	257.72 51.54	
31 13 13 00-0039	EA	Stump Grinding >30" To 33" Tree..... For 24" Depth, Add	286.35 57.27	
31 13 13 00-0040	EA	Stump Grinding >33" To 36" Tree..... For 24" Depth, Add	305.44 61.09	
31 13 13 00-0041	EA	Stump Grinding >36" To 42" Tree..... For 24" Depth, Add	343.63 68.73	
31 13 13 00-0042	EA	Stump Grinding >42" To 48" Tree..... For 24" Depth, Add	381.81 76.36	
31 13 13 00-0043	EA	Stump Grinding >48" To 60" Tree..... For 24" Depth, Add	477.25 95.45	
31 13 13 00-0044	EA	Stump Grinding >60" To 72" Tree..... For 24" Depth, Add	596.57 119.31	
31 13 13 00-0045	EA	Stump Grinding >72" To 84" Tree..... For 24" Depth, Add	763.61 152.72	
31 13 13 00-0046		Shrub Removal (31 13 13)		
31 13 13 00-0047	EA	Removal Of 18" To 24" Shrub, Broadleaf Evergreen.....	45.21	
31 13 13 00-0048	EA	Removal Of 2' To 3' Shrub, Broadleaf Evergreen.....	70.91	
31 13 13 00-0049	EA	Removal Of 3' To 4' Shrub, Broadleaf Evergreen.....	82.21	
31 13 13 00-0050	EA	Removal Of 4' To 5' Shrub, Broadleaf Evergreen.....	123.32	
31 13 13 00-0051	EA	Removal Of 12" To 15" Shrub, Deciduous.....	22.61	
31 13 13 00-0052	EA	Removal Of 18" To 24" Shrub, Deciduous.....	34.94	
31 13 13 00-0053	EA	Removal Of 2' To 3' Shrub, Deciduous.....	45.21	
31 13 13 00-0054	EA	Removal Of 3' To 4' Shrub, Deciduous.....	49.32	
31 13 13 00-0055	EA	Removal Of 18" To 24" Shrub, Evergreen.....	45.21	
31 13 13 00-0056	EA	Removal Of 24" To 30" Shrub, Evergreen.....	49.32	
31 13 13 00-0057	EA	Removal Of 30" To 36" Shrub, Evergreen.....	70.91	

31 Earthwork**31 10 Site Clearing****31 13 Selective Tree and Shrub Removal and Trimming**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

31 13 13 00-0058 EA Removal Of 36" To 42" Shrub, Evergreen 123.31

31 13 16 Selective Tree and Shrub Trimming (31 13)**31 13 16 00-0001 Tree Trimming For Pole Line Construction And Maintenance (31 13 16)**

Note: Area to be vertical cleared (including overhanging limbs) is minimum 20' wide (10' each side of structure) and 16' above ground. All materials to 6" D.B.H. (Diameter At Breast Height) to be chipped in place. Larger material may be chipped or disposed. Trees greater than 18" diameter use individual tree removal tasks. Quantity based on running foot of power line to be cleared.

31 13 16 00-0002 LF Tree Trimming, Light Cutting To 6" Diameter For Pole Line Construction 1.97
31 13 16 00-0003 LF Tree Trimming, Medium Cutting >6" To 12" Diameter For Pole Line Construction 2.96
31 13 16 00-0004 LF Tree Trimming, Heavy Cutting >12" To 18" Diameter For Pole Line Construction 3.48

31 20 Earth Moving (31)

Note: Per OSHA -Soil Classification - 1926 Subpart P App A. Light material: Class A site material, normally referred to as "easy digging". Consisting of loose, soft, free running materials. Close lying, which will fill blade, digger or bucket to capacity, and frequently provide a heaped load. Materials such as dry sand, small gravel, unpacked earth, loam, etc., would fall into this category. Medium material: Class B site material, normally referred to as "medium and tough, wet and sticky clay would be examples of this medium digging", consisting of harder materials that are not difficult to dig without assistance such as ripping, blasting, etc. Material break up with some bulkiness causing voids in digger or bucket. Materials such as packed earth, common earth with some clay, soil with less than 25% rock content would be examples of this category. Heavy/wet material: Class C site material, normally referred to as "hard digging", consisting of materials which may require some assistance in breaking up. Bulky and somewhat hard to penetrate materials would be found in this category and voids in dipper or bucket would be common. Materials such as very hard packed soil, with up to 50% to 70% rock content and hard category. Soil conditions will be determined by soil analysis to provide appropriate percentage (%) for the various types of soil conditions. Apply the percentages to the various soil types to generate an appropriate representation of the soil condition.

31 23 Excavation and Fill (31 20)**31 23 16 Excavation (31 23)****31 23 16 13 Trenching (31 23 16)**

Note: Use this section for trenching operations even if the total project volume exceeds 500 CY. Use tasks for work by hand only for areas not accessible by machine.

31 23 16 13-0001 Excavation For Trenching By Machine (31 23 16 13)

Note: Includes stockpiling excess materials and trimming sides and bottom of trench.

31 23 16 13-0002 CY 12" Wide or Less, Excavation for Trenching by Machine in Soil 10.90
For Excavation In Light Material (Class A), Deduct -1.36
For Excavation In Heavy/Wet Material (Class C), Add 4.36
For Up To 20, Add 8.72
For >20 To 50, Add 5.45
For >50 To 250, Add 2.73
For >500 To 1,000, Deduct -1.64
For >1,000, Deduct -3.27
31 23 16 13-0003 CY Over 12" Wide, Excavation for Trenching by Machine in Soil 7.22
For Excavation In Light Material (Class A), Deduct -0.90
For Excavation In Heavy/Wet Material (Class C), Add 2.89
For Up To 20, Add 5.78
For >20 To 50, Add 3.61
For >50 To 250, Add 1.81
For >500 To 1,000, Deduct -1.08
For >1,000, Deduct -2.17
31 23 16 13-0004 CY 12" Wide or Less, Excavation for Trenching by Machine in Loose Rock 18.04
Note: Includes compacted aggregate
For Up To 20, Add 14.43
For >20 To 50, Add 9.02
For >50 To 250, Add 4.51
For >500 To 1,000, Deduct -2.71
For >1,000, Deduct -5.41
31 23 16 13-0005 CY Over 12" Wide, Excavation for Trenching by Machine in Loose Rock 12.82
Note: Includes compacted aggregate
For Up To 20, Add 10.26
For >20 To 50, Add 6.41
For >50 To 250, Add 3.21
For >500 To 1,000, Deduct -1.92
For >1,000, Deduct -3.85

31 23 16 13-0006 Excavation For Trenching By Hand (31 23 16 13)

31 23 16 13-0007 CY Excavation For Trenching By Hand In Soil 128.66
Note: Includes stockpiling excess materials and trimming sides and bottom of trench.
31 23 16 13-0008 CY Excavation For Trenching By Hand In Loose Rock Or Compacted Aggregate 220.71
Note: Includes stockpiling excess materials and trimming sides and bottom of trench.

31 23 16 13-0009 Backfilling Or Placing Subbase For Trenches (31 23 16 13)

Note: With imported or stockpiled materials.

31 23 16 13-0010 CY Backfilling or Placing Subbase for Trenches with Imported or Stockpiled Materials by Machine 3.91
For Up To 20, Add 3.13
For >20 To 50, Add 1.96
For >50 To 250, Add 0.98
For >500 To 1,000, Deduct -0.59
For >1,000, Deduct -1.17
31 23 16 13-0011 CY Backfilling or Placing Subbase for Trenches with Imported or Stockpiled Materials by Hand 35.74



	Earthwork	31	
	Earth Moving	31 20	
	Excavation and Fill	31 23	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 13-0012 Compaction Of Fill Or Subbase For Trenches (31 23 16 13) Note: Includes restoration of final grade.		
31 23 16 13-0013 CY Compaction of Fill or Subbase for Trenches by Vibratory Plate, Air Tamper, Etcetera.....	7.47	
For Up To 20, Add	5.98	
For >20 To 50, Add	3.74	
For >50 To 250, Add	1.87	
For >500 To 1,000, Deduct	-1.12	
For >1,000, Deduct	-2.24	
31 23 16 13-0014 CY Compaction of Fill or Subbase for Trenches by Hand	40.32	
31 23 16 13-0015 Loading Excess Material For Removal From Excavation For Trenches (31 23 16 13) Note: Includes hand work by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stock-piling. See CSI section 01 74 19 00-0029 for hauling.		
31 23 16 13-0016 CY Load Excess Material by Machine for Removal from Excavation for Trenching	6.80	
For Up To 20, Add	5.44	
For >20 To 50, Add	3.40	
For >50 To 250, Add	1.70	
For >500 To 1,000, Deduct	-1.02	
For >1,000, Deduct	-2.04	
31 23 16 13-0017 CY Load Excess Material by Hand for Removal from Excavation for Trenching	94.35	
31 23 16 13-0018 Spread Excess Or Imported Material For Trenches (31 23 16 13) Note: Includes hand work by laborer for clean-up.		
31 23 16 13-0019 CY Spread Excess Or Imported Material On Site With Machine	3.16	
For Up To 20, Add	2.53	
For >20 To 50, Add	1.58	
For >50 To 250, Add	0.79	
For >500 To 1,000, Deduct	-0.47	
For >1,000, Deduct	-0.95	
31 23 16 13-0020 Direct Burial (Plowed-in) Cable Or Piping By Machine (31 23 16 13) Note: Includes trench, backfill, compaction and restoration of final grade.		
31 23 16 13-0021 LF Direct Burial of Cable or Piping up to 12" Deep	2.47	
31 23 16 13-0022 LF Direct Burial of Cable or Piping >12" to 24" Deep.....	2.72	
31 23 16 13-0023 LF Direct Burial of Cable or Piping >24" to 36" Deep.....	3.88	
31 23 16 13-0024 LF Direct Burial of Cable or Piping >36" to 48" Deep.....	4.38	
31 23 16 13-0025 Utility Chain Trencher (31 23 16 13)		
31 23 16 13-0026 Utility Trench, Chain Trencher (31 23 16 13-0025) Note: Earth left adjacent to trench.		
31 23 16 13-0027 LF 4" Wide, 12" Deep Trench, Medium Soil, Chain Trencher	1.29	
31 23 16 13-0028 LF 4" Wide, 18" Deep Trench, Medium Soil, Chain Trencher	1.42	
31 23 16 13-0029 LF 4" Wide, 24" Deep Trench, Medium Soil, Chain Trencher	1.46	
31 23 16 13-0030 LF 6" Wide, 12" Deep Trench, Medium Soil, Chain Trencher	1.55	
31 23 16 13-0031 LF 6" Wide, 18" Deep Trench, Medium Soil, Chain Trencher	1.70	
31 23 16 13-0032 LF 6" Wide, 24" Deep Trench, Medium Soil, Chain Trencher	1.94	
31 23 16 13-0033 LF 6" Wide, 36" Deep Trench, Medium Soil, Chain Trencher	2.32	
31 23 16 13-0034 LF 8" Wide, 12" Deep Trench, Medium Soil, Chain Trencher	2.19	
31 23 16 13-0035 LF 8" Wide, 18" Deep Trench, Medium Soil, Chain Trencher	2.58	
31 23 16 13-0036 LF 8" Wide, 24" Deep Trench, Medium Soil, Chain Trencher	2.93	
31 23 16 13-0037 LF 8" Wide, 36" Deep Trench, Medium Soil, Chain Trencher	3.48	
31 23 16 13-0038 Backfill Trenches With Compaction (31 23 16 13-0025)		
31 23 16 13-0039 LF Backfill 4" Wide, 12" Deep Trench, With Compaction.....	0.20	
31 23 16 13-0040 LF Backfill 4" Wide, 18" Deep Trench, With Compaction.....	0.31	
31 23 16 13-0041 LF Backfill 4" Wide, 24" Deep Trench, With Compaction.....	0.42	
31 23 16 13-0042 LF Backfill 6" Wide, 12" Deep Trench, With Compaction.....	0.31	
31 23 16 13-0043 LF Backfill 6" Wide, 18" Deep Trench, With Compaction.....	0.42	
31 23 16 13-0044 LF Backfill 6" Wide, 24" Deep Trench, With Compaction.....	0.63	
31 23 16 13-0045 LF Backfill 6" Wide, 36" Deep Trench, With Compaction.....	0.90	
31 23 16 13-0046 LF Backfill 8" Wide, 12" Deep Trench, With Compaction.....	0.42	
31 23 16 13-0047 LF Backfill 8" Wide, 18" Deep Trench, With Compaction.....	0.63	
31 23 16 13-0048 LF Backfill 8" Wide, 24" Deep Trench, With Compaction.....	0.83	
31 23 16 13-0049 LF Backfill 8" Wide, 36" Deep Trench, With Compaction.....	1.26	
31 23 16 26 Rock Removal (31 23 16)		
31 23 16 26-0001 Rock Breaking By Machine (31 23 16 26) Note: Excludes excavation of broken-up rock.		
31 23 16 26-0002 CY Rock Breaking By Machine, Soft Sedimentary Rocks (Shale, Sandstone, Limestone)	28.95	
31 23 16 26-0003 CY Rock Breaking By Machine, Medium Metamorphic Rock (Slate).....	30.87	
31 23 16 26-0004 CY Rock Breaking By Machine, Hard Igneous Rock (Granite, Basalt)	36.66	

31	Earthwork
31 20	Earth Moving
31 23	Excavation and Fill



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 33		Bulk Excavation ^(31 23 16)		
		Note: For excavations where the total quantity for a project is greater than 500 cubic yards. See CSI section 31 05 16 00-0000 for imported material, 31 23 16 36-0000 for For less than 500 CY excavation.		
31 23 16 33-0001		Excavation ^(31 23 16 33)		
		Note: For bulk excavation. Includes stockpiling excavated materials within 100' of point of excavation.		
31 23 16 33-0002	CY	Bulk Excavation by Dozer in Soil	9.88	
		For Excavation In Light Material (Class A), Deduct	-1.24	
		For Excavation In Heavy/Wet Material (Class C), Add	3.95	
		For >1,000, Deduct	-1.48	
31 23 16 33-0003	CY	Bulk Excavation by Hydraulic Excavator, Front End Loader, Backhoe in Soil	5.82	
		For Excavation In Light Material (Class A), Deduct	-0.73	
		For Excavation In Heavy/Wet Material (Class C), Add	2.33	
		For >1,000, Deduct	-0.87	
31 23 16 33-0004	CY	Bulk Excavation by Dozer in Loose Rock	12.14	
		Note: Includes compacted aggregate		
		For >1,000, Deduct	-1.82	
31 23 16 33-0005	CY	Bulk Excavation by Hydraulic Excavator, Front End Loader, Backhoe in Loose Rock	7.17	
		Note: Includes compacted aggregate		
		For >1,000, Deduct	-1.08	
31 23 16 33-0006		Spreading, Shaping And Rough Grading ^(31 23 16 33)		
		Note: Imported or stockpiled material for bulk excavation.		
31 23 16 33-0007	CY	Spreading, Shaping, and Rough Grading Imported or Stockpiled Material for Bulk Excavation by Machine	6.09	
		For >1,000, Deduct	-0.91	
31 23 16 33-0008		Cutting, Shaping and Rough Grading Of Existing Elevations ^(31 23 16 33)		
		Note: For bulk excavation.		
31 23 16 33-0009	CY	Cutting, Shaping and Rough Grading Existing Elevations For Bulk Excavation by Machine	6.77	
		For >1,000, Deduct	-1.02	
31 23 16 33-0010		Relocating On Site Excavated Material From Excavation ^(31 23 16 33)		
		Note: For bulk excavation.		
31 23 16 33-0011	CY	Relocating On Site Excavated Material From Bulk Excavation >100' to 300'	5.41	
		For >1,000, Deduct	-0.81	
31 23 16 33-0012	CY	Relocating On Site Excavated Material From Bulk Excavation >300' to 500'	8.12	
		For >1,000, Deduct	-1.22	
31 23 16 33-0013	CY	Relocating On Site Excavated Material From Bulk Excavation >500' To 1,000'	12.19	
		For >1,000, Deduct	-1.83	
31 23 16 33-0014	CY	Relocating On Site Excavated Material From Bulk Excavation >1,000'	16.25	
		For >1,000, Deduct	-2.44	
31 23 16 33-0015		Finish Grading ^(31 23 16 33)		
		Note: For bulk excavation.		
31 23 16 33-0016	SY	Finish Grading for Bulk Excavation by Machine	0.68	
31 23 16 33-0017		Compaction Of Fill Or Subbase, Per Lift ^(31 23 16 33)		
		Note: For bulk excavation.		
31 23 16 33-0018	SY	Compaction of Fill or Subbase for Bulk Excavation by Machine	0.69	
		Note: Per Lift		
31 23 16 33-0019		Loading Excess Material For Removal From Excavation ^(31 23 16 33)		
		Note: For bulk excavation. Includes hand work by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stock-piling. See CSI section 01 74 19 00-0029 for hauling.		
31 23 16 33-0020	CY	Loading Excess Material For Removal From Bulk Excavation	5.88	
		For >1,000, Deduct	-0.88	
31 23 16 36		Excavation for Building Foundations and Other Structures ^(31 23 16)		
		Note: Use of a Bobcat is limited to access restricted areas and by owner's approval. See CSI section 31 05 16 00-0000 for imported material, 31 23 16 33-0000 for bulk excavation operations over 500 CY.		
31 23 16 36-0001		Excavation ^(31 23 16 36)		
		Note: For building foundations and other structures by machine. Includes stockpiling excess materials within 100' of point of excavation, shaping, trimming and rough grading excavation.		
31 23 16 36-0002		Excavation For Building Foundations And Other Structures By Skid-Steer Loader ^(31 23 16 36-0001)		
31 23 16 36-0003	CY	Excavation For Building Foundations And Other Structures By Skid-Steer Loader In Soil	9.03	
		For Excavation In Light Material (Class A), Deduct	-1.13	
		For Excavation In Heavy/Wet Material (Class C), Add	3.61	
		For Up To 20, Add	9.03	
		For >20 To 50, Add	6.77	
		For >50 To 250, Add	3.61	
		For >250 To 500, Add	1.35	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 36-0004	CY		Excavation For Building Foundations And Other Structures By Skid-Steer Loader In Loose Rock Note: Includes compacted aggregate	11.23	
			For Up To 20, Add	11.23	
			For >20 To 50, Add	8.42	
			For >50 To 250, Add	4.49	
			For >250 To 500, Add	1.68	
31 23 16 36-0005			Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader (31 23 16 36-0001)		
31 23 16 36-0006	CY		Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader in Soil For Excavation In Light Material (Class A), Deduct For Excavation In Heavy/Wet Material (Class C), Add For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	7.00 -0.88 2.80 7.00 5.25 2.80 1.05	
31 23 16 36-0007	CY		Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader in Loose Rock Note: Includes compacted aggregate For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	8.32 8.32 6.24 3.33 1.25	
31 23 16 36-0008			Excavation For Building Foundations And Other Structures By Hand (31 23 16 36- 0001) Note: For areas not accessible by machine and only with owner's approval.		
31 23 16 36-0009	CY		Excavation For Building Foundations And Other Structures By Hand in Soil For Excavation In Light Material (Class A), Deduct For Excavation In Heavy/Wet Material (Class C), Add	128.66 -16.08 51.46	
31 23 16 36-0010	CY		Excavation For Building Foundations And Other Structures By Hand in Loose Rock..... Note: Includes compacted aggregate	220.71	
31 23 16 36-0011			Relocating On Site Excavated Material From Excavation (31 23 16 36) Note: For building foundations and other structures over 100'.		
31 23 16 36-0012	CY		Relocating On Site Excavated Material From Excavation For Building Foundations and Other Structures >100' to 300' For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	5.41 5.41 4.06 2.16 0.81	
31 23 16 36-0013	CY		Relocating On Site Excavated Material From Excavation For Building Foundations and Other Structures >300' to 500' For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	8.12 8.12 6.09 3.25 1.22	
31 23 16 36-0014	CY		Relocating On Site Excavated Material From Excavation For Building Foundations and Other Structures >500' to 1,000' For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	12.19 12.19 9.14 4.88 1.83	
31 23 16 36-0015	CY		Relocating On Site Excavated Material From Excavation For Building Foundations and Other Structures >1,000' For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	16.25 16.25 12.19 6.50 2.44	
31 23 16 36-0016			Backfilling (31 23 16 36) Note: For building foundations and other structures with imported or stockpiled materials. Includes rough grading.		
31 23 16 36-0017	CY		Backfilling Around Building Foundations And Other Structures By Skid-Steer Loader For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	4.46 4.46 3.35 1.78 0.67	
31 23 16 36-0018	CY		Backfilling Around Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	5.42 5.42 4.07 2.17 0.81	
31 23 16 36-0019	CY		Backfilling Around Building Foundations And Other Structures By Hand	61.27	
31 23 16 36-0020			Compaction Of Fill Or Subbase (31 23 16 36) Note: For building foundations and other structures.		

31 Earthwork**31 20 Earth Moving****31 23 Excavation and Fill**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 36-0021 CY Compaction Of Fill Or Subbase For Building Foundations and Other Structures by Vibratory Plate, Air Tamper, Etcetera For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	11.84 11.84 8.88 4.74 1.78	
31 23 16 36-0022 CY Compaction Of Fill Or Subbase For Building Foundations and Other Structures by Hand	40.31	
31 23 16 36-0023 Grading (31 23 16 36) Note: For building foundations and other structures.		
31 23 16 36-0024 SY Rough Grading For Building Foundations And Other Structures by Machine	1.16	
31 23 16 36-0025 SY Finish Grading For Building Foundations And Other Structures by Machine	1.88	
31 23 16 36-0026 SY Finish Grading For Building Foundations And Other Structures by Hand	11.91	
31 23 16 36-0027 Loading Excess Material For Removal From Excavation (31 23 16 36) Note: For building foundations and other structures. Includes hand work by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stock-piling. See CSI section 01 74 19 00- 0029 for hauling.		
31 23 16 36-0028 CY Load Excess Material For Removal From Excavation For Building Foundations and Other Structures by Machine For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	6.12 6.12 4.59 2.45 0.92	
31 23 16 36-0029 CY Load Excess Material For Removal From Excavation For Building Foundations and Other Structures by Hand	94.35	
31 23 16 36-0030 Spread Material (31 23 16 36) Note: For building foundations and other structures.		
31 23 16 36-0031 CY Spread Excess Or Imported Material On Site By Machine For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	3.16 3.16 2.37 1.26 0.47	
31 23 16 36-0032 CY Spread Excess Or Imported Material On Site By Hand	52.06	
31 23 16 46 Excavation Operations to Expose Underground Pipes and Structures (31 23 16) Note: Includes work above, beside and under pipe. Pipes up to 82" in diameter. Use this section for trenching operations even if the total project volume exceeds 500 CY. Use tasks for work by hand only for areas not accessible by machine. See CSI section 31 23 16 13-0015 for loading excess material, 31 23 16 13-0018 for spreading excess material.		
31 23 16 46-0001 Excavation To Expose Underground Pipe Or Structures (31 23 16 46) Note: Includes stockpiling excess materials and trimming sides and bottom of trench. Excludes rock breaking.		
31 23 16 46-0002 Excavation By Machine To Expose Underground Pipe Or Structure (31 23 16 46- 0001)		
31 23 16 46-0003 CY Excavation By Hydraulic Excavator, Backhoe, Loader in Soil/Common Excavation To Expose Underground Pipes And Structures For Excavation In Light Material (Class A), Deduct For Excavation In Heavy/Wet Material (Class C), Add For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	14.00 -1.75 5.60 14.00 10.50 5.60 2.10	
31 23 16 46-0004 CY Excavation By Hydraulic Excavator, Backhoe, Loader in Loose Rock To Expose Underground Pipes And Structures For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	16.61 16.61 12.46 6.64 2.49	
31 23 16 46-0005 Excavation By Hand To Expose Underground Pipe Or Structure (31 23 16 46-0001)		
31 23 16 46-0006 CY Excavation By Hand In Soil To Expose Underground Pipes And Structures Note: Includes stockpiling excess materials and trimming sides and bottom of trench.	160.83	
31 23 16 46-0007 CY Excavation By Hand In Loose Rock To Expose Underground Pipes And Structures Note: Includes stockpiling excess materials and trimming sides and bottom of trench.	240.17	
31 23 16 46-0008 Backfilling Or Placing Subbase At Exposed Underground Pipe Or Structures (31 23 16 46) Note: With imported or stockpiled materials		
31 23 16 46-0009 CY Backfilling By Hydraulic Excavator, Backhoe, Loader At Exposed Underground Pipes And Structures For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	10.49 7.87 4.20 1.57	
31 23 16 46-0010 CY Backfilling by Hand At Exposed Underground Pipes And Structures	72.91	
31 23 16 46-0011 Compaction Of Fill Or Subbase At Exposed Underground Pipe Or Structures (31 23 16 46) Note: With imported or stockpiled materials		



		Earthwork	31
		Earth Moving	31 20
		Excavation and Fill	31 23

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MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
31 23 16 46-0012	CY Compaction of Fill or Subbase by Mechanical Means At Exposed Underground Pipe Or Structures.....	14.92		
	For Up To 20, Add	14.92		
	For >20 To 50, Add	11.19		
	For >50 To 250, Add	5.97		
	For >250 To 500, Add	2.24		
31 23 16 46-0013	CY Compaction of Fill or Subbase by Hand At Exposed Underground Pipe Or Structures.....	48.39		
31 23 16 46-0014	Loading Excess Material For Removal From Excavation At Exposed Underground Pipe Or Structures (31 23 16 46)			
	Note: Includes hand work by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stock-piling. See CSI section 01 74 19 00-0029 for hauling.			
31 23 16 46-0015	CY Load Excess Material by Machine for Removal from Excavation At Exposed Underground Pipe Or Structures.....	6.80		
	For Up To 20, Add	5.44		
	For >20 To 50, Add	3.40		
	For >50 To 250, Add	1.70		
	For >500 To 1,000, Deduct	-1.02		
	For >1,000, Deduct	-2.04		
31 23 16 46-0016	CY Load Excess Material by Hand for Removal from Excavation At Exposed Underground Pipe Or Structures.....	94.35		
31 23 16 46-0017	Spread Excess Or Imported Material At Exposed Underground Pipe Or Structures (31 23 16 46)			
	Note: Includes hand work by laborer for clean-up.			
31 23 16 46-0018	CY Spread Excess Or Imported Material On Site By Machine At Exposed Underground Pipe Or Structures.....	3.16		
	For Up To 20, Add	2.53		
	For >20 To 50, Add	1.58		
	For >50 To 250, Add	0.79		
	For >500 To 1,000, Deduct	-0.47		
	For >1,000, Deduct	-0.95		
31 23 16 46-0019	CY Spread Excess Or Imported Material On Site By Hand At Exposed Underground Pipe Or Structures.....	52.06		
31 23 19	Dewatering (31 23)			
31 23 19 00-0001	Well Point Dewatering System (31 23 19)			
31 23 19 00-0002	Delivery, Installation And Removal Cost (31 23 19 00-0001)			
	Note: Priced by linear foot of header used.			
31 23 19 00-0003	LF Up To 100' In Length Well Point System Delivery, Installation And Removal.....	128.46		
31 23 19 00-0004	LF >100' To 250' In Length Well Point System Delivery, Installation And Removal.....	70.65		
31 23 19 00-0005	LF >250' To 500' In Length Well Point System Delivery, Installation And Removal.....	64.22		
31 23 19 00-0006	LF >250' To 500' In Length Well Point System Delivery, Installation And Removal.....	57.81		
31 23 19 00-0007	LF >500' To 1,000' In Length Well Point System Delivery, Installation And Removal.....	51.38		
31 23 19 00-0008	LF >1,000' In Length Well Point System Delivery, Installation And Removal.....	44.95		
31 23 19 00-0009	Well Point Dewatering System Rental (31 23 19 00-0001)			
	Note: Includes all necessary equipment for a well point system (well point with risers, pump, valves, header pipe, discharge pipe, etc.). Use normal adjustment factor only for rental tasks and modifiers. Unit of measure and modifier quantities are based on linear feet of header per day (ex. 200 ft of header for four days - quantity should be 200x4 or 800 ft). Rental days include weekends, when appropriate, regardless if the system is operational during that time. Use weekly modifier for system use of five days to less than a month. Use monthly modifier for system use of one month or greater. See CSI section 31 23 19 00-0002 for installation, 31 23 19 00-0015 for operational costs.			
31 23 19 00-0010	LFD Up To 100' In Length Well Point System Rental (LF x Days = Quantity).....	2.90		
	For >5 Days And <1 Month, Deduct	-0.64		
	For >1 Month, Deduct	-0.81		
31 23 19 00-0011	LFD >100' To 250' In Length Well Point System Rental (LF x Days = Quantity).....	1.69		
	For >5 Days And <1 Month, Deduct	-0.37		
	For >1 Month, Deduct	-0.47		
31 23 19 00-0012	LFD >250' To 500' In Length Well Point System Rental (LF x Days = Quantity).....	1.21		
	For >5 Days And <1 Month, Deduct	-0.27		
	For >1 Month, Deduct	-0.34		
31 23 19 00-0013	LFD >500' To 1,000' In Length Well Point System Rental (LF x Days = Quantity).....	0.89		
	For >5 Days And <1 Month, Deduct	-0.20		
	For >1 Month, Deduct	-0.25		
31 23 19 00-0014	LFD >1,000' In Length Well Point System Rental (LF x Days = Quantity).....	0.81		
	For >5 Days And <1 Month, Deduct	-0.18		
	For >1 Month, Deduct	-0.23		
31 23 19 00-0015	Well Point Dewatering System Operation Costs (31 23 19 00-0001)			
	Note: The quantity for operation shall be the total number of hours the well point system is operational.			
31 23 19 00-0016	HR Operation Costs.....	149.39		
31 24	Embankments (31 20)			
31 24 13	Roadway Embankments (31 24)			

31	Earthwork
31 20	Earth Moving
31 24	Embankments



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
31 24 13 00-0001	Roadway, Parking Areas, Landscaping And Embankment Excavation And Shaping Operations (31 24 13) Note: Use this section for excavation and shaping operations even if the total quantity for the project exceeds 500 CY.			
31 24 13 00-0002	Cutting, Shaping And Rough Grading (31 24 13 00-0001) Note: For roadways, parking areas, landscaping, and embankments. Includes loading or stockpiling excess materials within 300' of initial cut.			
31 24 13 00-0003	Cutting, Shaping, And Rough Grading (31 24 13 00-0002)			
31 24 13 00-0004	CY Cut, Shape, and Rough Grading for Roadways, Parking Areas, Landscaping and Embankments by Machine in Soil.....	6.77		
	For Up To 20, Add	6.77		
	For >20 To 50, Add	5.08		
	For >50 To 250, Add	2.71		
	For >250 To 500, Add	1.02		
	For >1,000, Deduct	-1.02		
31 24 13 00-0005	CY Cut, Shape, and Rough Grading for Roadways, Parking Areas, Landscaping and Embankments by Machine in Loose Rock..... Note: Includes compacted aggregate	8.39		
	For Up To 20, Add	8.39		
	For >20 To 50, Add	6.29		
	For >50 To 250, Add	3.36		
	For >250 To 500, Add	1.26		
	For >1,000, Deduct	-1.26		
31 24 13 00-0006	Cutting, Shaping, And Rough Grading By Hand (31 24 13 00-0002)			
31 24 13 00-0007	SY Shape Embankment/Slope By Hand Up To 1 On 4 Slope.....	6.59		
31 24 13 00-0008	SY Shape Embankment/Slope By Hand Greater Than 1 On 4 Slope	8.58		
31 24 13 00-0009	Scarify Soil (31 24 13 00-0001) Note: For roadways, parking areas, landscaping and embankments by machine.			
31 24 13 00-0010	CSF Scarify Soil For Roadways, Parking Areas, Landscaping And Embankments By Machine	6.27		
	For Up To 20, Add	3.14		
	For >20 To 50, Add	1.57		
	For >250 To 500, Deduct	-0.63		
	For >500, Deduct	-1.25		
31 24 13 00-0011	Relocating On Site Excavated Material (31 24 13 00-0001)			
31 24 13 00-0012	CY >500' To 1,000', Relocating On Site Excavated Material For Roadways, Parking Areas, Landscaping And Embankments By Machine	12.19		
	For Up To 20, Add	12.19		
	For >20 To 50, Add	9.14		
	For >50 To 250, Add	4.88		
	For >250 To 500, Add	1.83		
	For >1,000, Deduct	-1.83		
31 24 13 00-0013	CY >1,000', Relocating On Site Excavated Material For Roadways, Parking Areas, Landscaping And Embankments By Machine.....	16.25		
	For Up To 20, Add	16.25		
	For >20 To 50, Add	12.19		
	For >50 To 250, Add	6.50		
	For >250 To 500, Add	2.44		
	For >1,000, Deduct	-2.44		
31 24 13 00-0014	Spread And Shape Imported Or Stockpiled Material (31 24 13 00-0001) Note: For roadways, parking areas, landscaping and embankments. See CSI section 31 23 16 36-0032 for spreading material by hand.			
31 24 13 00-0015	CY Spread And Shape Imported Or Stockpiled Material For Roadways, Parking Areas, Landscaping and Embankments By Machine	7.45		
	For Up To 20, Add	7.45		
	For >20 To 50, Add	5.59		
	For >50 To 250, Add	2.98		
	For >250 To 500, Add	1.12		
	For >1,000, Deduct	-1.12		
31 24 13 00-0016	Grading (31 24 13 00-0001) Note: For roadways, parking areas, landscaping and embankments by machine.			
31 24 13 00-0017	SY Rough Grade Roadway, Parking Areas, Landscaping And Embankments By Machine.....	0.78		
31 24 13 00-0018	SY Finish Grade Roadway, Parking Areas, Landscaping And Embankments By Machine	1.03		
31 24 13 00-0019	LF Finish Grade For Curb	1.16		
31 24 13 00-0020	LF Finish Grade For Curb And Gutter	1.41		
31 24 13 00-0021	Compaction Of Fill Or Subbase (31 24 13 00-0001) Note: For roadways, parking areas, landscaping and embankments by machine, per lift.			



		Earthwork	31
		Earth Moving	31 20
		Embankments	31 24

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 24 13 00-0022	SY	Compaction Of Fill Or Subbase For Roadways, Parking Areas, Landscaping And Embankments By Machine Per Lift.....	0.69	
		For Up To 250, Add	0.69	
		For >250 To 500, Add	0.52	
		For >500 To 1,000, Add	0.28	
		For >5,000, Deduct	-0.10	
31 24 13 00-0023		Loading Excess Material For Removal From Excavation (31 24 13 00-0001)		
		Note: For roadways, parking areas, landscaping and embankments by machine. Includes hand work by laborer for clean-up.		
31 24 13 00-0024	CY	Load Excess Material For Removal For Roadways, Parking Areas, Landscaping and Embankments by Machine	5.88	
		For Up To 20, Add	5.88	
		For >20 To 50, Add	4.41	
		For >50 To 250, Add	2.35	
		For >250 To 500, Add	0.88	
		For >1,000, Deduct	-0.88	
31 25 Erosion and Sedimentation Controls (31 20)				
31 25 14 Stabilization Measures for Erosion and Sedimentation Control (31 25)				
31 25 14 13 Hydraulically-Applied Erosion Control (31 25 14)				
31 25 14 13-0001 Bonded Fiber Matrix (31 25 14 13)				
31 25 14 13-0002	MSF	Up To 25,000 SF Bonded Fiber Matrix, Hydraulically Applied	58.73	
31 25 14 13-0003	MSF	>25,000 To 50,000 SF Bonded Fiber Matrix, Hydraulically Applied.....	54.05	
31 25 14 13-0004	MSF	>50,000 To 100,000 SF Bonded Fiber Matrix, Hydraulically Applied.....	50.08	
31 25 14 13-0005	MSF	>100,000 Bonded Fiber Matrix, Hydraulically Applied	47.82	
31 25 14 16 Rolled Erosion Control Mats and Blankets (31 25 14)				
		Note: Includes all staples and stakes for erosion control blankets and turf reinforcement mats.		
31 25 14 16-0001 Erosion Control Blankets And Turf Reinforcement Mats (31 25 14 16)				
31 25 14 16-0002 Erosion Control Blankets, Short Term, Light Duty (31 25 14 16-0001)				
31 25 14 16-0003	SY	S75 Single Net Erosion Control Blanket	2.98	
		Note: Straw matrix with degradable thread to a single standard photodegradable polypropylene netting as manufactured by North American Green.		
31 25 14 16-0004	SY	S75BN Single Net Erosion Control Blanket	3.85	
		Note: Straw Matrix with Biodegradable Thread to a Single Natural Fiber Netting as manufactured by North American Green.		
31 25 14 16-0005	SY	Curlex 1, Single Net Erosion Control Blanket	2.83	
		Note: As manufactured by American Excelsior		
31 25 14 16-0006	SY	Curlex 1, Single Net Erosion Control Blanket	2.98	
		Note: As manufactured by American Green.		
31 25 14 16-0007	SY	Futerra Erosion Control Blanket, Wood Fibers With Biodegradable Netting	2.64	
31 25 14 16-0008 Erosion Control Blankets, Intermediate Duration (31 25 14 16-0001)				
31 25 14 16-0009	SY	S150 Double Net Erosion Control Blanket	3.85	
		Note: Straw matrix with degradable thread to a double standard photodegradable polypropylene netting as manufactured by North American Green.		
31 25 14 16-0010	SY	S150 BN Double Net Erosion Control Blanket	5.21	
		Note: Straw matrix with biodegradable thread to a double natural fiber netting as manufactured by North American Green.		
31 25 14 16-0011	SY	Curlex II, Double Net Erosion Control Blanket, Natural	3.21	
		Note: As manufactured by American Excelsior.		
31 25 14 16-0012	SY	Curlex II, Double Net Erosion Control Blanket, Green	3.36	
		Note: As manufactured by American Excelsior.		
31 25 14 16-0013	SY	Enforcer Double Net Erosion Control Blanket	3.59	
		Note: As manufactured by American Excelsior.		
31 25 14 16-0014 Turf Reinforcement Mats (TRM) (31 25 14 16-0001)				
		Note: Permanent, UV stabilized.		
31 25 14 16-0015	SY	P300 Permanent Polypropylene Turf Reinforcement Mat.....	14.00	
		Note: 100% synthetic, UV stabilized, two layer netting.		
31 25 14 16-0016	SY	C350 Permanent Turf Reinforcement Mat	12.87	
		Note: 100% synthetic, UV stabilized netting incorporating natural coconut fibers as manufactured by North American Green.		
31 25 14 16-0017	SY	Recyclex TRM, Permanent Turf Reinforcement Mat	15.92	
		Note: As manufactured by American Excelsior, 100% recycled		
31 25 14 16-0018 Jute Mesh Erosion Control Blankets (31 25 14 16-0001)				
31 25 14 16-0019	SY	Jute Mesh, Open Uniform Weave	4.24	
31 25 14 16-0020 Revegetation Mat (31 25 14 16-0001)				
31 25 14 16-0021	SY	3-Dimensional Webbed Revegetation Mat, Polyolefin Fiber	10.95	
		Note: Polyolefin fibers oriented and mechanically bonded between two nets. Landlok TRM 450 or equal.		

31 Earthwork**31 20 Earth Moving****31 25 Erosion and Sedimentation Controls**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 25 14 16-0022	SY		Webbed Revegetation Mat, Polypropylene Fiber..... Note: Polypropylene fibers positioned between two high strength biaxially oriented nets and mechanically held together by parallel stitching with polypropylene thread. Landlok TRM 1060 or equal.	15.68	
31 25 14 23 Stabilization Measures for Erosion Control (31 25 14)					
See CSI section 01 74 19 00-0029 for hauling greater than 15 miles.					
31 25 14 23-0001 Sand Bags (31 25 14 23)					
Note: Bags filled on site with delivered material. Includes material and placement of bags.					
31 25 14 23-0002	BAG		50 LB Capacity Sand Bag With Sand	6.50	2.71
			For >2,500 To 5,000, Deduct	-0.54	
			For >5,000, Deduct	-1.19	
31 25 14 23-0003	BAG		75 LB Capacity Sand Bag With Sand	8.39	3.37
			For >2,500 To 5,000, Deduct	-0.67	
			For >5,000, Deduct	-1.51	
31 25 14 23-0004	BAG		100 LB Capacity Sand Bag With Sand	10.60	4.03
			For >2,500 To 5,000, Deduct	-0.81	
			For >5,000, Deduct	-1.87	
31 25 14 23-0005	BAG		125 LB Capacity Sand Bag With Sand	13.03	5.04
			For >2,500 To 5,000, Deduct	-1.01	
			For >5,000, Deduct	-2.31	
31 25 14 23-0006	BAG		150 LB Capacity Sand Bag With Sand	15.87	6.04
			For >2,500 To 5,000, Deduct	-1.21	
			For >5,000, Deduct	-2.80	
31 25 14 23-0007	BAG		175 LB Capacity Sand Bag With Sand	18.52	6.87
			For >2,500 To 5,000, Deduct	-1.37	
			For >5,000, Deduct	-3.23	
31 25 14 23-0008	BAG		2,000 LB Capacity Sand Bag With Sand	148.40	47.58
			For >2,500 To 5,000, Deduct	-8.74	
			For >5,000, Deduct	-23.58	
31 25 14 23-0009	BAG		3,000 LB Capacity Sand Bag With Sand	192.62	52.34
			For >2,500 To 5,000, Deduct	-9.61	
			For >5,000, Deduct	-28.87	
31 25 14 23-0010 Gravel Bags (31 25 14 23)					
Note: Bags filled on site with delivered material. Includes material and placement of bags.					
31 25 14 23-0011	BAG		30 LB Capacity Gravel Bag With Gravel	7.02	1.80
			For >2,500 To 5,000, Deduct	-0.36	
			For >5,000, Deduct	-1.06	
31 25 14 23-0012	BAG		50 LB Capacity Gravel Bag With Gravel	12.41	2.71
			For >2,500 To 5,000, Deduct	-0.54	
			For >5,000, Deduct	-1.78	
31 25 14 23-0013 Floating Turbidity Curtain (31 25 14 23)					
Note: Type 2 DOT fabric - 18 oz. nominal laminated vinyl/polyester. EPS flotation, 6 in. x 6 in., 13.5 lb./ft. buoyancy in fresh water and 14.4 lb./ft buoyancy in saltwater.					
31 25 14 23-0014	LF		3' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	26.75	
			For Type 1, Deduct	-4.23	
			For 13 Oz PVC Fabric, Type 2, Deduct	-2.58	
			For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	3.13	
31 25 14 23-0015	LF		4' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	29.01	
			For Type 1, Deduct	-4.66	
			For 13 Oz PVC Fabric, Type 2, Deduct	-2.84	
			For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	3.44	
31 25 14 23-0016	LF		5' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	32.14	
			For Type 1, Deduct	-5.28	
			For 13 Oz PVC Fabric, Type 2, Deduct	-3.21	
			For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	3.90	
31 25 14 23-0017	LF		6' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	34.80	
			For Type 1, Deduct	-5.79	
			For 13 Oz PVC Fabric, Type 2, Deduct	-3.52	
			For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	4.28	
31 25 14 23-0018	LF		7' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	36.53	
			For Type 1, Deduct	-6.07	
			For 13 Oz PVC Fabric, Type 2, Deduct	-3.69	
			For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	4.49	
31 25 14 23-0019	LF		8' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	38.25	
			For Type 1, Deduct	-6.35	
			For 13 Oz PVC Fabric, Type 2, Deduct	-3.87	
			For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	4.70	
31 25 14 23-0020	LF		9' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	40.25	
			For Type 1, Deduct	-6.69	
			For 13 Oz PVC Fabric, Type 2, Deduct	-4.07	
			For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	4.95	
31 25 14 23-0021	LF		10' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	43.02	
			For Type 1, Deduct	-7.20	
			For 13 Oz PVC Fabric, Type 2, Deduct	-4.38	
			For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	5.32	
31 25 14 23-0022	LF		12' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain	45.21	
			For Type 1, Deduct	-7.57	
			For 13 Oz PVC Fabric, Type 2, Deduct	-4.61	
			For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	5.59	



Earthwork		31	15
Earth Moving		31 20	
Erosion and Sedimentation Controls		31 25	

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
31 25 14 23-0023	LF 13' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	48.15		
	For Type 1, Deduct	-8.10		
	For 13 Oz PVC Fabric, Type 2, Deduct	-4.93		
	For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	5.99		
31 25 14 23-0024	LF 14' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	50.89		
	For Type 1, Deduct	-8.58		
	For 13 Oz PVC Fabric, Type 2, Deduct	-5.22		
	For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	6.34		
31 25 14 23-0025	LF 15' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	53.54		
	For Type 1, Deduct	-9.03		
	For 13 Oz PVC Fabric, Type 2, Deduct	-5.50		
	For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	6.68		
31 25 14 23-0026	LF 16' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	58.29		
	For Type 1, Deduct	-9.97		
	For 13 Oz PVC Fabric, Type 2, Deduct	-6.07		
	For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	7.37		
31 25 14 23-0027	LF 17' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	61.13		
	For Type 1, Deduct	-10.45		
	For 13 Oz PVC Fabric, Type 2, Deduct	-6.36		
	For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	7.72		
31 25 14 23-0028	LF 18' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	63.88		
	For Type 1, Deduct	-10.90		
	For 13 Oz PVC Fabric, Type 2, Deduct	-6.63		
	For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	8.05		
31 25 14 23-0029	LF 19' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	66.79		
	For Type 1, Deduct	-11.38		
	For 13 Oz PVC Fabric, Type 2, Deduct	-6.93		
	For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	8.41		
31 25 14 23-0030	LF 20' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	69.62		
	For Type 1, Deduct	-11.83		
	For 13 Oz PVC Fabric, Type 2, Deduct	-7.20		
	For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	8.74		
31 25 14 23-0031	Turbidity Curtain Anchors (31 25 14 23)			
31 25 14 23-0032	EA 14 LB, Turbidity Curtain Anchor System.....	730.65		
	Note: Includes anchor, anchor chain, and marker buoy and rope.			
31 25 14 23-0033	EA 25 LB, Turbidity Curtain Anchor System.....	1,002.91		
	Note: Includes anchor, anchor chain, and marker buoy and rope.			
31 25 14 23-0034	EA 40 LB, Turbidity Curtain Anchor System.....	1,276.35		
	Note: Includes anchor, anchor chain, and marker buoy and rope.			
31 25 14 23-0035	EA 65 LB, Turbidity Curtain Anchor System.....	1,670.27		
	Note: Includes anchor, anchor chain, and marker buoy and rope.			
31 25 14 23-0036	Filter Bags (31 25 14 23)			
31 25 14 23-0037	Non-Woven Filter Bags (31 25 14 23-0036)			
31 25 14 23-0038	EA 6' x 15' Non-Woven Filter Bag	240.36		
31 25 14 23-0039	EA 13' x 15' Non-Woven Filter Bag	347.83		
31 25 14 23-0040	EA 15' x 15' Non-Woven Filter Bag	399.86		
31 25 14 23-0041	Monofilament Filter Bags (31 25 14 23-0036)			
31 25 14 23-0042	EA 5' x 15' Monofilament Filter Bag.....	249.91		
31 25 14 23-0043	EA 10' x 15' Monofilament Filter Bag.....	346.05		
31 25 14 23-0044	Cable Articulating Concrete Block (31 25 14 23)			
	Note: 4000 PSI Compressive strength, 12 LB/CF maximum absorption. Interlocking block with longitudinal revetment cable. Includes anchoring block to 12" x 12" x 6" concrete pier every 5' with anchor and filling cells with stockpiled material. Excludes site preparation and imported materials.			
31 25 14 23-0045	SF 4.75" Open Cell Articulated Concrete Block With Earth Backfill	45.20		
	For Up To 500, Add	10.14		
	For >500 To 1,000, Add	5.62		
31 25 14 23-0046	SF 6" Open Cell Articulated Concrete Block With Earth Backfill	51.83		
	For Up To 500, Add	11.57		
	For >500 To 1,000, Add	6.38		
31 25 14 23-0047	SF 7.5" Open Cell Articulated Concrete Block With Earth Backfill	59.40		
	For Up To 500, Add	13.20		
	For >500 To 1,000, Add	7.26		
31 25 14 23-0048	SF 9" Open Cell Articulated Concrete Block With Earth Backfill	67.02		
	For Up To 500, Add	14.87		
	For >500 To 1,000, Add	8.17		
31 25 14 23-0049	SF 4.75" Closed Cell Articulated Concrete Block	48.69		
	For Up To 500, Add	10.84		
	For >500 To 1,000, Add	5.97		
31 25 14 23-0050	SF 6" Closed Cell Articulated Concrete Block.....	56.00		
	For Up To 500, Add	12.40		
	For >500 To 1,000, Add	6.80		
31 25 14 23-0051	SF 7.5" Closed Cell Articulated Concrete Block.....	64.35		
	For Up To 500, Add	14.19		
	For >500 To 1,000, Add	7.75		

31 Earthwork**31 20 Earth Moving****31 25 Erosion and Sedimentation Controls**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 25 14 23-0052	SF	9" Closed Cell Articulated Concrete Block	72.69	
		For Up To 500, Add	16.00	
		For >500 To 1,000, Add	8.73	
31 25 14 26 Stabilization Measures for Sedimentation Control (31 25 14)				
31 25 14 26-0001		Silt Fences And Dike Barriers (31 25 14 26)		
		Note: Includes stakes and embedding.		
31 25 14 26-0002		Silt Fences 2' High (31 25 14 26-0001)		
		See CSI section 31 25 14 26-0014 for removal of silt fence.		
31 25 14 26-0003	LF	2' High Silt Fence with Stakes at 4' On Center	3.44	
31 25 14 26-0004	LF	2' High Silt Fence with Stakes at 6' On Center	2.71	
31 25 14 26-0005	LF	2' High Silt Fence with Stakes at 8' On Center	1.98	
31 25 14 26-0006	LF	2' High Silt Fence with Stakes at 10' On Center	1.74	
31 25 14 26-0007		Silt Fences 3' High (31 25 14 26-0001)		
		See CSI section 31 25 14 26-0014 for removal of silt fence.		
31 25 14 26-0008	LF	3' High Silt Fence with Stakes at 4' On Center	3.59	
31 25 14 26-0009	LF	3' High Silt Fence with Stakes at 6' On Center	2.99	
31 25 14 26-0010	LF	3' High Silt Fence with Stakes at 8' On Center	2.08	
31 25 14 26-0011	LF	3' High Silt Fence with Stakes at 10' On Center	1.84	
31 25 14 26-0012		Silt Dike Barrier (31 25 14 26-0001)		
31 25 14 26-0013	LF	Silt Dike Barrier With Stakes	4.40	
31 25 14 26-0014		Silt Fences Removal (31 25 14 26-0001)		
31 25 14 26-0015	LF	Removal Of Silt Fence And Stakes	0.85	
31 25 14 26-0016		Hay And Straw Bales (31 25 14 26)		
		Note: Includes trench for placement, and stakes.		
31 25 14 26-0017	LF	Place Sterilized Straw Bales	5.40	
		Note: Includes securing in ground with stakes. See CSI section 31 25 14 26-0019 for removal of straw bale.		
31 25 14 26-0018	LF	Place Hay Bales	4.93	
		Note: Includes securing in ground with stakes. See CSI section 31 25 14 26-0019 for removal of hay bale.		
31 25 14 26-0019	LF	Removal Of Hay Or Straw Bales	1.54	
		Note: Includes removal of stakes.		
31 25 14 26-0020		Sediment Logs (Degradable) (31 25 14 26)		
31 25 14 26-0021		Sediment Logs (Degradable) (31 25 14 26-0020)		
		Note: Includes stakes and removal after use. Curlex sediment logs as manufactured by American Excelsior.		
31 25 14 26-0022	LF	12" Sediment Log	8.28	
31 25 14 26-0023	LF	20" Sediment Log	11.18	
31 25 14 26-0024		Wattles (Degradable) With UV Stabilized Synthetic Netting (31 25 14 26-0020)		
		Note: Includes trench for placement, 24" wood staking at 4' on-center		
31 25 14 26-0025	EA	Wattles (Sterile Straw Filled Rolls), 9" x 25'	176.31	
31 25 14 26-0026	EA	Wattles (Sterile Straw Filled Rolls), 12" x 20'	171.71	
31 25 14 26-0027		Fiber Roll (CALTRANS Type 1) (31 25 14 26)		
		Note: Includes furrow trench for placement, 24" wood staking at 4' on-center		
31 25 14 26-0028	LF	8" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1	7.11	
		For >1,000 To 10,000, Deduct	-0.74	
		For >10,000, Deduct	-1.26	
31 25 14 26-0029	LF	9" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1	8.27	
		For >1,000 To 10,000, Deduct	-0.78	
		For >10,000, Deduct	-1.33	
31 25 14 26-0030	LF	12" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1	10.49	
		For >1,000 To 10,000, Deduct	-0.93	
		For >10,000, Deduct	-1.59	
31 25 14 26-0031		Fiber Roll (CALTRANS Type 2) (31 25 14 26)		
		Note: Includes 24" wood stakes at 2' on-center off-set on sides with ropes.		
31 25 14 26-0032	LF	8" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2	6.20	
		For >1,000 To 10,000, Deduct	-0.61	
		For >10,000, Deduct	-1.03	
31 25 14 26-0033	LF	9" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2	7.32	
		For >1,000 To 10,000, Deduct	-0.63	
		For >10,000, Deduct	-1.09	
31 25 14 26-0034	LF	12" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2	8.86	
		For >1,000 To 10,000, Deduct	-0.68	
		For >10,000, Deduct	-1.18	



	Earthwork	31	15
	Earth Moving	31 20	
	Erosion and Sedimentation Controls	31 25	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 25 14 26-0035	Inlet Protection Sediment Bags ^(31 25 14 26) Note: Includes removal, cleaning, and replacement per each location.	
31 25 14 26-0036 EA	2' x 2' x 3' Inlet Protection Sediment Bag.....	70.36
31 25 14 26-0037 EA	2' x 3' x 3' Inlet Protection Sediment Bag.....	88.65
31 25 14 26-0038 EA	2' x 4' x 3' Inlet Protection Sediment Bag.....	96.81

31 30 Earthwork Methods ⁽³¹⁾

31 31 Soil Treatment ^(31 30)

31 31 16 Termite Control ^(31 31)

31 31 16 13 Chemical Termite Control ^(31 31 16)

31 31 16 13-0001 Commercial Use ^(31 31 16 13)

31 31 16 13-0002 SF	Termite Pretreatment, Commercial Soil Poisoning Under Slab	0.78
31 31 16 13-0003 SF	Termite Pretreatment, Commercial Slab And Walls.....	1.12

31 31 16 13-0004 Residential Use ^(31 31 16 13)

31 31 16 13-0005 SF	Termite Pretreatment, Residential General Spraying Walls And Slab	1.21
31 31 16 13-0006 SF	Termite Treatment, Existing Residential Structure.....	1.33

31 31 19 Vegetation Control ^(31 31)

31 31 19 13 Chemical Vegetation Control ^(31 31 19)

31 31 19 13-0001 Soil Sterilants ^(31 31 19 13)

31 31 19 13-0002 MSF	Soil Sterilant.....	31.43
Note: Use only in areas where complete control of all vegetation is desired, such as industrial sites, right-of-way, lumberyards, petroleum tank farms, around farm buildings, along fence lines, etc. When applied to the soil, this product usually inhibits plant growth for a year or more.		
For >45 To 90, Deduct		-0.45
For >90 To 225, Deduct		-2.48
For >225, Deduct		-3.39

31 32 Soil Stabilization ^(31 30)

31 32 13 Soil Mixing Stabilization ^(31 32)

31 32 13 16 Cement Soil Stabilization ^(31 32 13)

31 32 13 16-0001 Cementitious Soil Binder ^(31 32 13 16)

31 32 13 16-0002 CY	Cementitious Soil Binder, 4% Cement Mix By Volume	42.45
31 32 13 16-0003 CY	Cementitious Soil Binder, 6% Cement Mix By Volume	50.14
31 32 13 16-0004 CY	Cementitious Soil Binder, 9% Cement Mix By Volume	62.80
31 32 13 16-0005 CY	Cementitious Soil Binder, 12% Cement Mix By Volume	75.27

31 32 13 19 Lime Soil Stabilization ^(31 32 13)

Note: Includes delivery up to 15 miles from the closest approved source, the cost for loading, and dumping. The price excludes the cost for spreading or backfilling. See CSI section 01 74 19 00-0029 for hauling greater than 15 miles.

31 32 13 19-0001 Lime Slurry ^(31 32 13 19)

31 32 13 19-0002 LCY	Soil Stabilization With Lime Slurry 10% Lime Slurry By Volume.....	38.02
31 32 13 19-0003 TON	Cement Stabilized Base Material.....	236.78
31 32 13 19-0004 CWT	Lime For Soil Stabilization	40.32
Note: Excludes the cost for spreading or backfilling		
31 32 13 19-0005 LCY	Roller, Grader - Lime Stabilization	18.45
31 32 13 19-0006 LCY	Roller, Grader - Cement Stabilization	4.13

31 32 13 19-0007 Lime Stabilized Subgrade ^(31 32 13 19)

Note: Based on soil weight of 110 LB/CF using lime weight of 5.5 LB/CF (5%).

31 32 13 19-0008 SY	6" Thick Lime Stabilized Subgrade, 25 LB.....	19.32
For 4% Lime Instead Of 5%, Deduct		-0.72
For 6% Lime Instead Of 5%, Add		0.72
31 32 13 19-0009 SY	7" Thick Lime Stabilized Subgrade, 29 LB.....	22.36
For 4% Lime Instead Of 5%, Deduct		-0.83
For 6% Lime Instead Of 5%, Add		0.83
31 32 13 19-0010 SY	8" Thick Lime Stabilized Subgrade, 33 LB.....	25.50
For 4% Lime Instead Of 5%, Deduct		-0.94
For 6% Lime Instead Of 5%, Add		0.94

31 32 13 29 Liquid Soil Stabilization ^(31 32 13)

31 32 13 29-0001 GAL	Polyacrylamide And Calcium Solution	3.39

31	Earthwork
31 30	Earthwork Methods
31 32	Soil Stabilization



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

31 32 19 Geosynthetic Soil Stabilization and Layer Separation ^(31 32)

31 32 19 13 Geogrid Soil Stabilization ^(31 32 19)

31 32 19 13-0001 Geogrid Fabrics ^(31 32 19 13)

Note: For reinforcement of over steepened earth slopes, segmental retaining walls and other mechanically stabilized earth applications.

31 32 19 13-0002	SY	5.3 Ounce/SY, 1,700 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-150).....	5.98
		For Up To 50, Add	1.30
		For >50 To 150, Add	0.97
		For >150 To 250, Add	0.63
		For >250 To 500, Add	0.32
31 32 19 13-0003	SY	6.9 Ounce/SY, 3,100 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-300).....	6.84
		For Up To 50, Add	1.48
		For >50 To 150, Add	1.10
		For >150 To 250, Add	0.72
		For >250 To 500, Add	0.36
31 32 19 13-0004	SY	8.7 Ounce/SY, 4,280 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-500).....	7.46
		For Up To 50, Add	1.61
		For >50 To 150, Add	1.20
		For >150 To 250, Add	0.79
		For >250 To 500, Add	0.39
31 32 19 13-0005	SY	12.6 Ounce/SY, 7,315 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-800).....	10.77
		For Up To 50, Add	2.27
		For >50 To 150, Add	1.70
		For >150 To 250, Add	1.12
		For >250 To 500, Add	0.56
31 32 19 13-0006	SY	14.1 Ounce/SY, 9,790 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-1000).....	12.34
		For Up To 50, Add	2.59
		For >50 To 150, Add	1.94
		For >150 To 250, Add	1.28
		For >250 To 500, Add	0.64
31 32 19 13-0007	SY	4.3 Ounce/SY, 1,658 LB/FT Wide Width Tensile Ultimate Bi-Axial Extruded Polypropylene Geogrid Fabric (Carthage Mills Enkagrid Max 20).....	6.08
		For Up To 50, Add	1.32
		For >50 To 150, Add	0.98
		For >150 To 250, Add	0.64
		For >250 To 500, Add	0.32
31 32 19 13-0008	SY	5.9 Ounce/SY, 2,192 LB/FT Wide Width Tensile Ultimate Bi-Axial Extruded Polypropylene Geogrid Fabric (Carthage Mills Enkagrid Max 30).....	8.99
		For Up To 50, Add	1.91
		For >50 To 150, Add	1.42
		For >150 To 250, Add	0.94
		For >250 To 500, Add	0.47

31 32 19 16 Geotextile Soil Stabilization ^(31 32 19)

31 32 19 16-0001 Nonwoven Polypropylene Geotextiles ^(31 32 19 16)

Note: For drainage, filtration and separation.

31 32 19 16-0002	SY	3.0 Ounce/SY, 40 Mil, 80 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-30HS).....	1.86
		For Up To 50, Add	0.41
		For >50 To 150, Add	0.31
		For >150 To 250, Add	0.20
		For >250 To 500, Add	0.10
31 32 19 16-0003	SY	3.5 Ounce/SY, 50 Mil, 95 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-35HS).....	1.99
		For Up To 50, Add	0.44
		For >50 To 150, Add	0.33
		For >150 To 250, Add	0.21
		For >250 To 500, Add	0.11
31 32 19 16-0004	SY	4.0 Ounce/SY, 60 Mil, 115 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-40HS).....	2.16
		For Up To 50, Add	0.47
		For >50 To 150, Add	0.35
		For >150 To 250, Add	0.23
		For >250 To 500, Add	0.12
31 32 19 16-0005	SY	4.5 Ounce/SY, 55 Mil, 120 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-45HS).....	2.33
		For Up To 50, Add	0.51
		For >50 To 150, Add	0.38
		For >150 To 250, Add	0.25
		For >250 To 500, Add	0.12
31 32 19 16-0006	SY	6.0 Ounce/SY, 70 Mil, 160 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-60HS).....	2.77
		For Up To 50, Add	0.60
		For >50 To 150, Add	0.44
		For >150 To 250, Add	0.29
		For >250 To 500, Add	0.15
31 32 19 16-0007	SY	7.0 Ounce/SY, 85 Mil, 180 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-70HS).....	3.24
		For Up To 50, Add	0.70
		For >50 To 150, Add	0.52
		For >150 To 250, Add	0.34
		For >250 To 500, Add	0.17



	Earthwork	31	15
	Earthwork Methods	31 30	
	Soil Stabilization	31 32	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 19 16-0008 SY 8.0 Ounce/SY, 85 Mil, 205 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-80HS).....	3.57	
For Up To 50, Add	0.77	
For >50 To 150, Add	0.57	
For >150 To 250, Add	0.37	
For >250 To 500, Add	0.19	
31 32 19 16-0009 SY 10 Ounce/SY, 115 Mil, 250 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-100HS).....	4.41	
For Up To 50, Add	0.93	
For >50 To 150, Add	0.70	
For >150 To 250, Add	0.46	
For >250 To 500, Add	0.23	
31 32 19 16-0010 SY 16 Ounce/SY, 175 Mil, 425 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric.....	6.58	
For Up To 50, Add	1.37	
For >50 To 150, Add	1.02	
For >150 To 250, Add	0.68	
For >250 To 500, Add	0.34	
31 32 19 16-0011 Woven Geotextiles Fabric (31 32 19 16)		
31 32 19 16-0012 SY 200 LB Grab Tensile Woven Slit Film Geotextile Fabric (Carthage Mills FX-55).....	2.70	
For Up To 50, Add	0.58	
For >50 To 150, Add	0.43	
For >150 To 250, Add	0.28	
For >250 To 500, Add	0.14	
31 32 19 16-0013 SY 315 LB Grab Tensile Woven Slit Film Geotextile Fabric (Carthage Mills FX-66).....	3.81	
For Up To 50, Add	0.80	
For >50 To 150, Add	0.60	
For >150 To 250, Add	0.40	
For >250 To 500, Add	0.20	
31 32 19 16-0014 SY 4 To 6% Open Area, 370 x 250 LB Grab Tensile Woven Monofilament Geotextile Fabric (Carthage Mills Carthage 6%).....	6.74	
For Up To 50, Add	1.40	
For >50 To 150, Add	1.05	
For >150 To 250, Add	0.69	
For >250 To 500, Add	0.35	
31 32 19 16-0015 SY 11 To 15% Open Area, 370 x 220 LB Grab Tensile Woven Monofilament Geotextile Fabric (Carthage Mills Carthage 15%).....	6.57	
For Up To 50, Add	1.37	
For >50 To 150, Add	1.02	
For >150 To 250, Add	0.67	
For >250 To 500, Add	0.34	
31 32 19 16-0016 SY 6.9 Oz/SY, 250 LB/IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-250TF).....	5.73	
For Up To 50, Add	1.20	
For >50 To 150, Add	0.89	
For >150 To 250, Add	0.59	
For >250 To 500, Add	0.30	
31 32 19 16-0017 SY 9.1 Oz/SY, 333 LB/IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-330TF).....	6.13	
For Up To 50, Add	1.28	
For >50 To 150, Add	0.95	
For >150 To 250, Add	0.63	
For >250 To 500, Add	0.32	
31 32 19 16-0018 SY 12.1 Oz/SY, 400 LB/IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-400TF).....	7.85	
For Up To 50, Add	1.62	
For >50 To 150, Add	1.21	
For >150 To 250, Add	0.80	
For >250 To 500, Add	0.40	
31 32 19 16-0019 SY 12.1 Oz/SY, 400 LB/IN Wide Width Tensile Ultimate Woven Monofilament And Fibrillated Geotextile Fabric (Carthage Mills FX-400MF).....	11.22	
For Up To 50, Add	2.30	
For >50 To 150, Add	1.72	
For >150 To 250, Add	1.14	
For >250 To 500, Add	0.57	
31 32 19 16-0020 Geomembranes (31 32 19 16)		
31 32 19 16-0021 Polyvinyl Chloride (PVC) Geomembrane (31 32 19 16-0020)		
31 32 19 16-0022 SF 20 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	1.38	
31 32 19 16-0023 SF 30 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	1.60	
31 32 19 16-0024 SF 40 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	1.94	
31 32 19 16-0025 SF 50 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	2.34	
31 32 19 16-0026 SF 60 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	2.67	
31 32 19 16-0027 SF 70 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	2.92	
31 32 19 16-0028 SF 80 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	3.17	
31 32 19 16-0029 SF 90 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	3.50	
31 32 19 16-0030 SF 100 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics).....	3.82	
31 32 19 16-0031 High Density Polyethylene (HDPE) Geomembrane (31 32 19 16-0020)		
31 32 19 16-0032 SF 20 Mil High Density Polyethylene Membrane (US Fabrics).....	1.19	
31 32 19 16-0033 SF 30 Mil High Density Polyethylene Membrane (US Fabrics).....	1.02	
31 32 19 16-0034 SF 40 Mil High Density Polyethylene Membrane (US Fabrics).....	1.16	

31 Earthwork**31 30 Earthwork Methods****31 32 Soil Stabilization**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 19 16-0035	SF	50 Mil High Density Polyethylene Membrane (US Fabrics)	1.72	
31 32 19 16-0036	SF	60 Mil High Density Polyethylene Membrane (US Fabrics)	1.40	
31 32 19 16-0037	SF	80 Mil High Density Polyethylene Membrane (US Fabrics)	1.66	
31 32 19 16-0038	SF	100 Mil High Density Polyethylene Membrane (US Fabrics)	1.92	
31 32 19 16-0039	SF	120 Mil High Density Polyethylene Membrane (US Fabrics)	3.26	
31 32 19 16-0040	SF	140 Mil High Density Polyethylene Membrane (US Fabrics)	3.37	
31 32 19 26		Geoweb Cellular Confinement System (31 32 19)		
		Note: Includes staples, stakes and filling cells with stockpiled material. Excludes site preparation and imported materials.		
31 32 19 26-0001		Geoweb Cellular Confinement System (31 32 19 26)		
		Note: Includes staples, stakes and filling cells with stockpiled material. Excludes site preparation and imported materials.		
31 32 19 26-0002	SF	4" Geoweb Cellular Confinement System (Presto Geosystems)	7.87	
		For >20,000, Deduct	-0.21	
		For >2:1 Slope, Add	1.19	
31 32 19 26-0003	SF	6" Geoweb Cellular Confinement System (Presto Geosystems)	9.79	
		For >20,000, Deduct	-0.31	
		For >2:1 Slope, Add	1.19	
31 32 19 26-0004	SF	8" Geoweb Cellular Confinement System (Presto Geosystems)	12.07	
		For >20,000, Deduct	-0.42	
		For >2:1 Slope, Add	1.19	
31 32 36		Soil Nailing (31 32)		
31 32 36 11		Soil Nailing Stabilization (31 32 36)		
31 32 36 11-0001		Landslide and Slip-Out Stabilization (31 32 36 11)		
		Note: Work shall consist of the Contractor stabilizing identified slides by internally reinforcing the soil mass with reinforcing elements (nails) by using one or more of the installation methods specified in this contract. The Owner will identify locations for work to be performed as specified herein. The Contractor shall review all locations with Owner representatives to determine the method to be used. The Contractor will provide all necessary engineering plans and details required to successfully repair slides as noted. These plans shall be stamped by a registered professional engineer with a current California license who is knowledgeable in the design and implementation of slope stabilization with soil nails and related work. The contractor shall furnish all labor, materials, and equipment required to complete the work. Any necessary installation methods and associated costs are the responsibility of the contractor. The Contractor and the Contractor's Engineer will also warrant the stability of the repaired roadway section for a period of 5 years.		
31 32 36 11-0002		BioWall® (31 32 36 11-0001)		
		Note: Furnish and install the BioWall® to integrate with Launched Soil Nails™, SuperNails® or Self Drilling SuperNails®. The BioWall® is a confined soil/compost mass capable of sustaining vegetation at slope angles up to ¼(H):1(V), and is composed of 2 layers of galvanized wire mesh and 2 layers of lightweight geosynthetic encasing a seeded compost and/or topsoil mix, tied to the soil nails by steel plates. Furnish equipment and incidentals necessary to complete the work. BioWall® to soil nail connection details will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).		
31 32 36 11-0003	SF	BioWall® Construction	25.00	
31 32 36 11-0004		Green Terra Mesh (31 32 36 11-0001)		
		Note: Furnish and install the Green Terra Mesh. Furnish equipment and incidentals necessary to complete the work. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).		
31 32 36 11-0005	EA	Green Terra Mesh	635.25	



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	Earthwork Methods	31 30	
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MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 36 11-0006	GeoSynthetically Confined Soil™ (GCS®) Components (31 32 36 11-0001) Note: Furnish and install geosynthetic reinforcement, backfill and facing element to construct a Geosynthetically Confined Soil Wall™ (GCS®). Designs shall comply with the Design Standards for Geosynthetically Confined Soil Walls (adapted from the NCHRP Report 556 – Design and Construction Guidelines for Geosynthetic – Reinforced Soil Bridge Abutments with a Flexible Facing) noted below. Reinforcement Selection and Placement: Geosynthetic reinforcement shall consist of high-tenacity geotextiles manufactured for soil reinforcement applications. Geotextiles shall not be exposed to sunlight and extreme temperatures for an extended period of time. Damaged or improperly handled geosynthetic reinforcement shall be rejected. Use a woven polypropylene geotextile with ultimate tensile strength of 2400 lbs/ft (Amoco 2044 or similar) in the cross-machine direction (as per ASTM D4595). The geosynthetic reinforcement perpendicular to the wall face should consist of one continuous piece of material. Overlap of reinforcement in the design strength direction is not permitted. Adjacent sections of geosynthetic reinforcement should be placed so as to ensure that horizontal coverage shown on the plans is provided. Tracked construction equipment shall not be operated directly on the geosynthetic reinforcement. A minimum backfill thickness of 150 mm (6 in.) is required before operation of tracked vehicles over the geosynthetic reinforcement. Turning of tracked vehicles should be kept to a minimum to prevent displacing the fill and damaging or moving the geosynthetic reinforcement. Rubber-tired equipment may pass over the geosynthetic reinforcement at slow speeds less than 17 km/hr (10 miles/hr). Sudden braking and sharp turning should be avoided. Backfill Specifications: Structure backfill material should consist of material free from organic or other unsuitable material as determined by the Contractor's Engineer. Grading of the backfill should be as follows: 100 percent passing 100 mm (4 in.) sieve, 0-60 percent passing No. 40 (0.425 mm) sieve, and 0-15 percent passing No. 200 (0.075mm) sieve; plasticity index (PI) as determined by AASHTO T90, should not exceed 6. The backfill should exhibit an angle of internal friction of not less than 34 degrees, as determined by the standard direct shear test on the portion finer than 2 mm (No.10) sieve, using a sample compacted to 95 percent of AASHTO T-99, Methods C or D, at optimum moisture content. No testing is required for backfills where 80 percent of sizes are greater than 19 mm. The backfill should be substantially free of shale or other soft, poor durability particles and should have an organic content not larger than 1 percent. The backfill should have a pH between 4.5 and 9. Backfill Placement: Reinforced fill should be placed as specified in construction plans in compacted lift thickness of 8in, but in no case in lifts greater than 12in. Reinforced fill should be placed and compacted at or within 2 percent dry of the optimum moisture content. If the reinforced fill is free draining (i.e., with less than 5 percent passing a No. 200 sieve), water content of the fill may be within ±3 percent of the optimum. A minimum density of 90 percent of standard Proctor density is required. Optimum compaction is 100 percent of AASHTO T-99 (or 95 percent of AASHTO T-180) but this may not be possible throughout the wall structure. If significant percentage of the backfill is coarse material (i.e., greater than 30 percent retained on the 19 mm, or 3/4 in., sieve), a procedural specification may be used to verify compaction, (no less than two passes with a conventional vibratory plate compaction equipment). Backfill should be placed, spread, and compacted so as to prevent the development of wrinkles or movement of the geosynthetic reinforcement and the wall facing units. Only hand-operated compaction equipment should be allowed within 0.5 m (1.5 ft) of the front of the See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).		
31 32 36 11-0007	SF GeoSynthetically Confined Soil™ (GCS®) Wall Construction Note: Installation sold per square face foot (excludes materials)	23.75	
31 32 36 11-0008	EA GeoSynthetically Confined Soil™ (GCS®) Wall Galvanized Wire Basket Units (approximately 10" x 120")	108.50	
31 32 36 11-0009	EA GeoSynthetically Confined Soil™ (GCS®) Wall Concrete Masonry Units (approximately 8" x 8" x 16")	6.50	
31 32 36 11-0010	SF GeoSynthetically Confined Soil™ (GCS®) Wall Woven Geotextile	0.75	
31 32 36 11-0011	Turf (31 32 36 11-0001) Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).		
31 32 36 11-0012	Permanent Turf Reinforcing Mat (TRM) (31 32 36 11-0011) Note: Furnish a web of mechanically bonded synthetic fibers that are entangled to form a strong and dimensionally stable mat. Place fibers between 2 or 3 high-strength, biaxially oriented nets mechanically bound together by stitching with polyolefin thread. The netting material must be resistant to biological, chemical, and ultra-violet degradation.		
31 32 36 11-0013	SF Permanent Turf Reinforcement Mat..... Note: sold per square face foot	1.50	
31 32 36 11-0014	Biodegradable Turf Reinforcing Mat (TRM) (31 32 36 11-0011) Note: Furnish a geotextile composed of seed free processed natural fiber matrix mechanically bound together with 100% degradable binding fiber or netting to form a continuous matrix.		
31 32 36 11-0015	SF Biodegradable Turf Reinforcement Mat..... Note: sold per square face foot	0.75	
31 32 36 11-0016	Shotcrete or Gunite (31 32 36 11-0001) Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).		

31	31	Earthwork
	31 30	Earthwork Methods
	31 32	Soil Stabilization



MINOR		DESCRIPTION	TOTAL DIRECT		DEMOLITION
CSI	UOM		UNIT COST	UNIT COST	
31 32 36 11-0017		Wet-Mix Shotcrete for use with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self-Drilling SuperNails® / SuperMicropiles™ (31 32 36 11-0016) Note: Furnish steel reinforced shotcrete to integrate with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self Drilling SuperMicropiles™ or Self Drilling SuperNails® and complying with the requirements of ACI 506.2, "Specifications for Materials, Proportioning and Application of Shotcrete", except as otherwise specified. Shotcreting consists applying of one or more layers of concrete conveyed through a hose pneumatically projected at a high velocity against a prepared surface. Produce shotcrete by a wet-mix. The wet-mix process consists of thoroughly mixing all the ingredients except accelerating admixtures, but including the mixing water, introducing the mixture into the delivery equipment and delivering it, by positive displacement, to the nozzle. Air jet the wet-mix shotcrete from the nozzle at high velocity onto the surface. For additional descriptive information, refer to the American Concrete Institute ACI 506R "Guide to Shotcrete." The Contractor's Engineer shall provide all necessary details required to successfully construct the temporary or permanent facing and facing drainage system to satisfy the design intent of the facing. Comply with AASHTO Specifications, or accepted industry standards for any specific items that may not be addressed herein or elsewhere in this Contract Document. Use materials for shotcrete conforming to the following requirements: Cement AASHTO M85/ ASTM C150, Type I, II, III or V. Fine Aggregate AASHTO M6/ASTM C33 clean, natural. Coarse Aggregate AASHTO M80, Class B for quality Water Clean and Potable. AASHTO M157/ASTM C94 Chemical Admixtures Accelerator Fluid type, applied at nozzle, meeting requirements of AASHTO M194/ASTM C494/ASTM C1141. Water-reducer and Superplasticizer AASHTO M194/ASTM C494 Type A, C, D, E, F, or G Retarders AASHTO M194/ ASTM C494 Type B or D. Mineral Admixtures Fly Ash AASHTO M295/ASTM C618 Type F or C, cement replacement up to 35 percent by weight of cement. Silica Fume ASTM C1240, 90 percent minimum silicon dioxide solids content, not to exceed 12 percent by weight of cement. Welded Wire Fabric AASHTO M55/ASTM A185 or A497. Double twisted hexagonal ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions Prepackaged Shotcrete ASTM C928. PVC Drain Pipes: Pipe ASTM 1785 Schedule 40 PVC, solid and perforated wall, cell classification 12454-B or 12354-C, wall thickness SDR 35, with solvent weld or elastomeric gasket joints. Deliver, store and handle materials to prevent contamination, segregation, corrosion or damage. Store liquid admixtures to prevent evaporation and freezing. Use aggregate for shotcrete meeting the strength and durability requirements of AASHTO M6/M80, as applicable, and the following gradation requirements: Sieve Size Percent Passing by Weight 1/2" 100 3/8" 90-100 No. 4 70-85 No. 8 100 Proportion the shotcrete to be pumpable with the concrete pump furnished for the work, with a cementing materials content of at least 390 kilograms per cubic meter and water/cement ratio not greater than 0.50. Do not use admixtures unless approved by the Contractor's Engineer. Thoroughly mix admixtures into the shotcrete at the rate specified by the manufacturer. Use only accelerators compatible with the cement used, non-corrosive to steel, and not promoting other detrimental effects such as cracking or excessive shrinkage. The maximum allowable chloride ion content of all ingredients is 0.10% when tested to AASHTO T260. Air entrainment is not required for temporary shotcrete construction facings. Provide shotcrete with a design compressive strength of 2000 psi in 3 days and 4000 psi in 28 days. Batch aggregate and cement by weight or by volume in accordance with the requirements of ASTM C94 or AASHTO M241/ASTM C685. Use mixing equipment that thoroughly blends the materials in sufficient quantity to maintain placing continuity. Produce ready mix shotcrete complying			
31 32 36 11-0018	SFI	Wet-Mix Reinforced Shotcrete Note: sold per inch thickness over one square face foot of area (includes reinforcing steel).		5.50	



	Earthwork	31	
	Earthwork Methods	31 30	15
	Soil Stabilization	31 32	

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 36 11-0019	Dry-Mix Shotcrete for use with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self-Drilling SuperNails® / SuperMicropiles™ (31 32 36 11-0016) Note: Furnish steel reinforced shotcrete to integrate with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self Drilling SuperMicropiles™ or Self Drilling SuperNails® and complying with the requirements of ACI 506.2, "Specifications for Materials, Proportioning and Application of Shotcrete", except as otherwise specified. Shotcreting consists applying of one or more layers of concrete conveyed through a hose pneumatically projected at a high velocity against a prepared surface. Produce shotcrete by a dry-mix. The dry-mix process consists of thoroughly mixing Portland cement and aggregate (and or synthetic fiber) thoroughly mixed dry, passed through a cement gun and conveyed by air through a flexible tube, hydrated at a nozzle at the end of such flexible tube and deposited by air pressure in its place of final repose. For additional descriptive information, refer to the American Concrete Institute ACI 506R "Guide to Shotcrete." The Contractor's Engineer shall provide all necessary details required to successfully construct the temporary or permanent facing and facing drainage system to satisfy the design intent of the facing. Comply with AASHTO Specifications, or accepted industry standards for any specific items that may not be addressed herein or elsewhere in this Contract Document. Use materials for shotcrete conforming to the following requirements: Cement AASHTO M85/ ASTM C150, Type I, II, or III. Fine Aggregate AASHTO M6/ASTM C33 clean, natural. Coarse Aggregate AASHTO M80, Class B for quality Fiber Reinforcement ASTM C116-00 Water Clean and Potable. AASHTO M157/ASTM C94 and shall be maintained at a uniform pressure which shall be at least 15 pounds per square inch above air pressure at the nozzle. Chemical Admixtures Accelerator Fluid type, applied at nozzle, meeting requirements of AASHTO M194/ASTM C494/ASTM C1141. Water-reducer and Superplasticizer AASHTO M194/ASTM C494 Type A, C, D, E, F, or G Retarders AASHTO M194/ ASTM C494 Type B or D. Mineral Admixtures Fly Ash AASHTO M295/ASTM C618 Type F or C, cement replacement up to 35 percent by weight of cement. Silica Fume ASTM C1240, 90 percent minimum silicon dioxide solids content, not to exceed 12 percent by weight of cement. Welded Wire Fabric AASHTO M55/ASTM A185 or A497. Double twisted hexagonal ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions Prepackaged Shotcrete ASTM C928. PVC Drain Pipes: Pipe ASTM 1785 Schedule 40 PVC, solid and perforated wall, cell classification 12454-B or 12354-C, wall thickness SDR 35, with solvent weld or elastomeric gasket joints. Deliver, store and handle materials to prevent contamination, segregation, corrosion or damage. Store liquid admixtures to prevent evaporation and freezing. Use aggregate for shotcrete meeting the strength and durability requirements of AASHTO M6/M80, as applicable, and the following gradation requirements: Sieve Size Percent Passing by Weight 1/2" 100 3/8" 90-100 No. 4 70-85 No. 8 100 Proportion the shotcrete to be pumpable with the concrete pump furnished for the work, with a cementing materials content of at least 390 kilograms per cubic meter and water/cement ratio not greater than 0.50. Do not use admixtures unless approved by the Contractor's Engineer. Thoroughly mix admixtures into the shotcrete at the rate specified by the manufacturer. Use only accelerators compatible with the cement used, non-corrosive to steel, and not promoting other detrimental effects such as cracking or excessive shrinkage. The maximum allowable chloride ion content of all ingredients is 0.10% when tested to AASHTO T260. Air entrainment is not required for temporary shotcrete construction facings. Provide shotcrete with a design compressive strength of 2000 psi in 3 days and 4000 psi in 28 days. Batch aggregate and cement by weight or by volume in accordance with the requirements of ASTM C94 or AASHTO M241/ASTM C6		
31 32 36 11-0020	SFI Dry-Mix Reinforced Gunite Note: sold per inch thickness over one square face foot of area (includes reinforcing steel).	8.50	
31 32 36 11-0021	Steel Fiber Reinforcement for use with Launched Soil Nails™, SuperNails®, SuperMicropiles™, Self-Drilling SuperNails® / SuperMicropiles™ (31 32 36 11-0016)		
31 32 36 11-0022	SFI Steel Fiber Reinforcement Note: sold per inch thickness over one square face foot of area	1.25	
31 32 36 11-0023	Steel Mesh and Steel Plates for use with Launched Soil Nails™, SuperNails® and Self Drilling SuperNails® (31 32 36 11-0001) Note: Unit Pricing excludes Daily Crew Rates for Items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).		
31 32 36 11-0024	Steel Mesh Surface Treatment for use with Launched Soil Nails™, SuperNails® and Self Drilling SuperNails® (31 32 36 11-0023) Note: Furnish Galfan® Coated Steel Mesh for use with Launched Soil Nails™, SuperNails®, or Self Drilling SuperNails® that is a double twisted hexagonal galvanized steel wire mesh manufactured according to ASTM A975-97 guidelines for Double Twisted Hexagonal Mesh Gabions. Alternately, the mesh may be a diamond shaped, three dimensional mesh made with high capacity 3-millimeter diameter wire. Furnish steel plates to connect the mesh to the nail systems described herein. Furnish equipment and incidentals necessary to complete the work. Soil Nail to mesh connection details will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals.		
31 32 36 11-0025	SF High Capacity Diamond Mesh Note: sold per square face foot	11.00	
31 32 36 11-0026	SF Double Twist Wire Mesh Note: sold per square face foot	13.75	
31 32 36 11-0027	Steel Plates (31 32 36 11-0023)		
31 32 36 11-0028	EA Galvanized Steel Plates (8x8)	35.00	
31 32 36 11-0029	EA Galvanized Steel Plates (10x10).....	54.75	
31 32 36 11-0030	EA Galvanized Steel Plates (12x12).....	78.75	
31 32 36 11-0031	EA Epoxy Coated Steel Plates (8x8).....	76.00	
31 32 36 11-0032	EA Epoxy Coated Steel Plates (10x10).....	89.25	
31 32 36 11-0033	EA Epoxy Coated Steel Plates (12x12).....	105.25	

31 Earthwork**31 30 Earthwork Methods****31 32 Soil Stabilization**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

31 32 36 11-0034**Drilled Horizontal Drains** (31 32 36 11-0001)

Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31 32 36 11-0035	LF	Drilled PVC Horizontal Drains (up to 2" Diameter).....	26.00
31 32 36 11-0036	LF	Stripdrain - 6" Wide.....	3.25
31 32 36 11-0037	LF	Stripdrain - 12" Wide.....	4.00
31 32 36 11-0038	LF	PVC Drain Collector Pipe System.....	26.75

31 32 36 11-0039**Rockfall Stabilization** (31 32 36 11-0001)

Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31 32 36 11-0040	SF	Scaling.....	3.75
31 32 36 11-0041	SF	Trim Blasting.....	155.00
31 32 36 11-0042	SY	Slope Drape - Double Twist Wire Mesh.....	45.00
31 32 36 11-0043	SY	Slope Drape - Cable Net.....	135.00
31 32 36 11-0044	SY	Slope Drape - Tecco Mesh (4mm).....	135.00
31 32 36 11-0045	LF	Temporary Rockfall Barrier.....	500.00
31 32 36 11-0046	LF	Low Reach Drilling (<25 feet).....	25.00
31 32 36 11-0047	LF	High Reach Drilling (>25 feet).....	45.00
31 32 36 11-0048	LF	Limited Access Drilling.....	100.00
31 32 36 11-0049	LF	F&I Rock Dowel - #8 Grade 75 All-Thread Bar (Galvanized).....	18.50
31 32 36 11-0050	LF	F&I Rock Dowel - #8 Grade 75 All-Thread Bar (Epoxy Coated).....	15.25
31 32 36 11-0051	LF	F&I Rock Dowel - #8 Grade 150 All-Thread Bar (Galvanized).....	23.25
31 32 36 11-0052	LF	F&I Rock Dowel - #8 Grade 150 All-Thread Bar (Epoxy Coated).....	17.25
31 32 36 11-0053	LF	F&I Rock Dowel - #10 Grade 75 All-Thread Bar (Galvanized).....	23.50
31 32 36 11-0054	LF	F&I Rock Dowel - #10 Grade 75 All-Thread Bar (Epoxy Coated).....	18.75
31 32 36 11-0055	LF	F&I Rock Dowel - #10 Grade 150 All-Thread Bar (Galvanized).....	26.50
31 32 36 11-0056	LF	F&I Rock Dowel - #10 Grade 150 All-Thread Bar (Epoxy Coated).....	21.00
31 32 36 11-0057	LF	F&I Rock Dowel - #11 Grade 75 All-Thread Bar (Galvanized).....	29.25
31 32 36 11-0058	LF	F&I Rock Dowel - #11 Grade 75 All-Thread Bar (Epoxy Coated).....	21.00
31 32 36 11-0059	LF	F&I Rock Dowel - #11 Grade 150 All-Thread Bar (Galvanized).....	34.50
31 32 36 11-0060	LF	F&I Rock Dowel - #11 Grade 150 All-Thread Bar (Epoxy Coated).....	31.75
31 32 36 11-0061	EA	Rock Anchor Testing.....	825.00

31 32 36 11-0062**Mobilization / Demobilization** (31 32 36 11-0001)

31 32 36 11-0063	EA	Mobilization - In State.....	10,000.00
31 32 36 11-0064	EA	Mobilization - Out Of State.....	25,000.00
31 32 36 11-0065	EA	Mobilization - Specialty Equipment Adder.....	9,800.00

31 32 36 11-0066**Daily Crew Rates (DCR)** (31 32 36 11-0001)

31 32 36 11-0067	DAY	Soils Stabilization Crew - DCR , Per Workday.....	13,150.00
31 32 36 11-0068	DAY	Rockfall Stabilization Crew - DCR, Per Workday.....	15,200.00
31 32 36 11-0069	DAY	Compaction Grouting Crew - DCR, Per Workday.....	12,925.00
31 32 36 11-0070	DAY	Additional Crew Member/Crew - DCR, Per Workday.....	2,050.00
31 32 36 11-0071	EA	Out of State Crew Rotation.....	4,950.00
31 32 36 11-0072	EA	Spider Excavation.....	5,500.00

31 32 36 13 Driven Soil Nailing (31 32 36)**31 32 36 13-0001****Large Diameter Micropiles** (31 32 36 13)

Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).

31 32 36 13-0002	LF	5" Micropiles (with up to 5.5" steel casing).....	94.50
31 32 36 13-0003	LF	7" Micropiles (with up to 7.625" steel casing).....	130.25
31 32 36 13-0004	LF	10" Micropiles (with up to 9.625" steel casing).....	166.50
31 32 36 13-0005	LF	12" Micropiles (with up to 11.875" steel casing).....	213.25

31 32 36 16 Grouted Soil Nailing (31 32 36)**31 32 36 16-0001****Grouting** (31 32 36 16)

Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).



Earthwork		31
Earthwork Methods	31 30	15
Soil Stabilization	31 32	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 36 16-0002	Compaction Grouting (31 32 36 16-0001) Note: A. Furnish compaction grout material manufactured on-site (at the project location) in volumetric batching equipment so that grout rheology can be controlled real-time. The grout shall have a slump of 0.50" to 3.0" depending on the specific requirements of the project and shall conform to the engineering plans developed and submitted by the Contractor. Grout components shall consist of Type I/II cement, potable water and aggregate. Fly Ash may be added to the mix per the engineering plans. All aggregate for the compaction grout material shall meet the following requirements: a. 100% passing the 1/2" sieve b. Less than 2% organics c. No bentonite or other clay of medium to high plasticity shall be used. Site conditions and re-leveling requirements shall determine the exact proportions of cement, water and soil. The grout mix shall generally consist of aggregate with up to 12% cement by weight and water to form a very stiff mortar-like mixture. No admixtures shall be used without the Project Manager's approval, and previous testing. Mix design and test results of grout mixture must be submitted and approved by the Project Manager 15 Days prior to the commencement of the work. A. Gradations of the aggregate material to be utilized shall be submitted as part of the submittal process and prior to any work taking place. B. The compaction grouting mixer shall be of a type to ensure complete mixing of the stiff grout, as approved by the Project Manager. The compaction grout mixer shall be of sufficient capacity to continuously deliver grout having a slump of less than 1.5 inches at pressures up to 1,000 psi, at flow rates ranging from 0.1 to 5.0 cubic feet per minute. Gauges shall be provided at the pump and the grout pipe head to measure pressure the rate of flow. Type and location of gauges shall be as specified by the Contractor. A dial gauge or meter capable of measuring to 0.5 cubic feet or less shall be provided to measure the amount of grout pumped into the hole. A pressure gauge shall be graduated in 10-psi increments or less and used to measure the applied pressure. Compaction grout hose shall have a minimum inside diameter of 2 inches with non-restrictive full flow couplings. The hose shall be of sufficient strength for the pressures anticipated, and shall be in good condition.	
31 32 36 16-0003 LF	Compaction Grouting Casing Installation.....	52.75
31 32 36 16-0004 CF	Compaction Grout Injection for Soils Densification.....	55.50
31 32 36 16-0005 CF	Compaction Grout For Void Fill.....	39.00
31 32 36 16-0006	Polyurethane Grouting (31 32 36 16-0001) Note: The material shall be a two part 1:1 ratio by volume, polyurethane-forming mixture, having a water insoluble diluent, which permits the formation of polyurethanes in excess water. The material shall reach 90% Compressive strength in 30 minutes such that traffic may be returned to roadway within 30 minutes after last injection of material. Polyurethane Free-rise Physical Properties Property I Units ASTM Minimum Maximum Density - lb/cf D 1622 3.0 lb/cf 6.0 lb/cf Tensile Strength - psi D 1623 80 psi Compressive Strength at Yield Point - psi D 1621 60 psi Furnish equipment and incidentals necessary to complete the work. Polyurethane grout shall not be used for deep injection (deeper than 3 ft below bottom of structure) or soils densification, it shall only be used for void filling under structures and for re-leveling. The Contractor shall prepare a profile to determine the areas that require void filling and re-leveling and determine the locations of the injection holes for each treated area. The Contractor shall obtain approval for the final proposed grades and the location of injection holes. The Contractor shall submit a plan for approval of the proposed polyurethane injection methods for the designated project areas. The plan shall include, but not be limited to: proposed diameter of casing (if required), depth of placement, angle of inclination, injection tube spacing, and project staging. The plan shall include monitoring procedures to ensure that damage will not occur to any existing structures due to the injection process. Monitoring devices shall be installed on mechanically stabilized earth retaining systems and between approach slabs and approach slab footings or other components to help prevent damage. The Contractor shall drill a pattern of holes as proposed in his plan. The holes shall be located in a manner that the void filling and structure lifting process does not affect any adjoining structures, such as mechanically stabilized earth retaining walls. Holes shall not be drilled within 4" of the edge of the slab, construction joints or major cracks. No more holes shall be drilled and tubes installed during the day than can be filled during that day. On bridge approach and roadway projects, and as applicable, the initial lift shall be at the sleeper footer. The Contractor shall lift the sleeper footer and the approach slab to the desired elevation by injecting material under the structures with care to assure that polyurethane material is not placed between the sleeper footer and the approach slab. The amount of rise shall be controlled by regulating the rate of injection of the high density polyurethane material. When the nozzle is removed from the hole, any excessive polyurethane material shall be removed from the area.	
31 32 36 16-0007 LB	Polyurethane Grouting For Void Fill and Re-Leveling.....	11.50
31 32 36 19	Corrosion-Protected Soil Nailing (31 32 36)	
31 32 36 19-0001	Self-Drilling SuperNails® / SuperMicropiles™ (31 32 36 19) Note: Furnish Self-Drilling SuperNails® / SuperMicropiles™ that consist of a hollow, threaded bar with a sacrificial drill bit. Multiple bars may be coupled to produce final length. Bar thread pattern should be continuous and conform to the pullout requirements of ASTM A 615 (Williams Form Engineering B7X or Ischebeck Titan bars, or approved equivalent). R-thread bars, bars/couplers made from high carbon (>0.20%) or high phosphorous (>0.06%) steels, or bars/couplers made from steels that do not meet the tensile ductility requirements of ASTM A 615 shall not be used for any tensile applications. Bar outer diameters shall be a minimum of 1.5 inches and up to and 3 inches depending on design load. Corrosion Protection for Self Drilling Nails shall follow current FHWA guidance. Inserted length and spacing of Self-Drilling SuperNails® / SuperMicropiles™ will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).	
31 32 36 19-0002	Self-Drilling SuperNails® (31 32 36 19-0001)	
31 32 36 19-0003 EA	Self Drilling SuperNails® Up To 10 Ft. Length.....	559.00
31 32 36 19-0004 EA	Self Drilling SuperNails® Up To 20 Ft. Length.....	939.25
31 32 36 19-0005 EA	Self Drilling SuperNails® Up To 30 Ft. Length.....	1,305.75
31 32 36 19-0006 EA	Self Drilling SuperNails® Up To 40 Ft. Length.....	1,735.75
31 32 36 19-0007 EA	Self Drilling SuperNails® Up To 50 Ft. Length.....	2,119.75
31 32 36 19-0008 EA	Self Drilling SuperNails® Up To 60 Ft. Length.....	2,459.25
31 32 36 19-0009 EA	Self Drilling SuperNails® Up To 70 Ft. Length.....	2,879.25
31 32 36 19-0010 EA	Self Drilling SuperNails® Up To 80 Ft. Length.....	3,253.50
31 32 36 19-0011 EA	Additional Cost for 10' High Capacity X-51 Bar	129.50
31 32 36 19-0012	SuperNail® Testing (31 32 36 19) Note: Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).	

31	Earthwork
31 30	Earthwork Methods
31 32	Soil Stabilization



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 32 36 19-0013	EA	SuperNail® Proof Testing	769.00
31 32 36 19-0014	EA	SuperNail® Verification Testing	2,339.75

31 32 36 26 Launched Soil Nailing (31 32 36)

31 32 36 26-0001		Launched SuperDrain™ (Horizontal Drains) (31 32 36 26)	
		Note: Furnish Launched SuperDrain™ up to 20 feet in length composed of a tube (1.5 inch outside diameter, 0.120 inch wall thickness hot-dipped galvanized 36ksi steel (ASTM A513) that is mechanically deformed or GalvaDized™ to produce a plurality of surficial asperities). Drainage perforations consist of 0.5-inch diameter holes drilled or torch-cut at 6 inch spacing along the distal 5 feet of nail. Every other hole is rotated 90° about the longitudinal axis of the nail. Furnish equipment and incidentals necessary to complete the work. Insert Launched SuperDrain™ with a single stroke at initial velocities in excess of 200 miles per hour. Inserted length and spacing will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).	
31 32 36 26-0002	EA	GalvaDized™ SuperDrain™ - Up To 20'	605.00
		Note: perforated GalvaDized™ steel tube up to 20 ft. length.	
31 32 36 26-0003	EA	Fiberglass SuperNail® - Up To 20'	621.50
		Note: perforated fiberglass tube up to 20 ft. length, pressure grouted with #6 epoxy coated inner Bar.	
31 32 36 26-0004	EA	GalvaDized™ SuperNail® - Up To 20'	478.50
		Note: perforated GalvaDized™ steel tube up to 20 ft. length, pressure grouted with #6 epoxy coated inner Bar.	
31 32 36 26-0005	EA	Temporary Launched Soil Nail	379.50
		Note: bare steel tube up to 20 ft. length.	
31 32 36 26-0006	EA	Fiberglass SuperDrain™	495.00
		Note: perforated fiberglass tube up to 20 ft. length.	
31 32 36 26-0007	EA	GalvaDized™ SuperDrain™	379.50
		Note: perforated GalvaDized™ steel tube up to 20 ft. length.	

31 32 36 29 Drilled Soil Nailing (31 32 36)

31 32 36 29-0001		Drilled SuperNails® (Permanently Cased Soil Nails) (31 32 36 29)	
		Note: Furnish SuperNails® that are a three stage construction including installation of (1) an outer tube (1.5 inch outside diameter, 0.120 inch wall thickness hot-dipped galvanized steel tube that is mechanically deformed or GalvaDized™ to produce a plurality of surficial asperities); (2) neat cement grout that completely encases and fills the outer tube; and (3) immediately install an epoxy coated, #6 (or greater) grade 75 threadbar as the inner bar. SuperNails® may be in lengths up to 60 feet. Although field adjustments in design may be allowed on certain projects (subject to approval by the Contractor's Engineer and the Owner) bidding an equivalent system is not allowed (i.e. the winning bidder must have the ability to install the above system). Furnish equipment and incidentals necessary to complete the work. Insert SuperNail® outer tubes with a single stroke at initial velocities in excess of 200 miles per hour or by drilling a hole to a prescribed depth and inserting the outer tube. Fill the outer tube with neat cement grout and immediately insert a #6 or larger epoxy coated inner threadbar. Inserted length and spacing will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals. Unit Pricing excludes Daily Crew Rates for items See CSI section 31 32 36 11-0066 for Daily Crew Rates (DCR).	
31 32 36 29-0002	EA	Drilled GalvaDized™ SuperNail® Up To 10 Ft. Length	602.25
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	
31 32 36 29-0003	EA	Drilled GalvaDized™ SuperNail® Up To 20 Ft. Length	693.50
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	
31 32 36 29-0004	EA	Drilled GalvaDized™ SuperNail® Up To 30 Ft. Length	921.50
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	
31 32 36 29-0005	EA	Drilled GalvaDized™ SuperNail® Up To 40 Ft. Length	1,056.00
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	
31 32 36 29-0006	EA	Drilled GalvaDized™ SuperNail® Up To 50 Ft. Length	1,171.50
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	
31 32 36 29-0007	EA	Drilled GalvaDized™ SuperNail® Up To 60 Ft. Length	1,376.50
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	
31 32 36 29-0008	EA	Drilled GalvaDized™ SuperNail® Up To 70 Ft. Length	1,624.75
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	
31 32 36 29-0009	EA	Drilled GalvaDized™ SuperNail® Up To 80 Ft. Length	1,872.75
		Note: GalvaDized™ steel tube, drilled and grouted with #6 epoxy coated inner Bar.	

31 32 36 33 Drilled / Launched Soil Nailing (31 32 36)

31 32 36 33-0001		Drilled / Launched SuperMicropiles™ (31 32 36 33)	
		Note: Furnish SuperMicropiles™ that are a three stage construction including installation of (1) an outer tube (1.5 inch outside diameter, 0.120 inch wall thickness hot-dipped galvanized steel tube that is mechanically deformed or GalvaDized™ to produce a plurality of surficial asperities); (2) neat cement grout that completely encases and fills the outer tube; and (3) immediately install an epoxy coated, #6 (or greater) grade 75 threadbar as the inner bar. SuperMicropiles™ may be in lengths up to 60 feet. Although field adjustments in design may be allowed on certain projects (subject to approval by the Contractor's Engineer and the Owner) bidding an equivalent system is not allowed (i.e. the winning bidder must have the ability to install the above system). Furnish equipment and incidentals necessary to complete the work. Insert SuperMicropile™ outer tubes with a single stroke at initial velocities in excess of 200 miles per hour or by drilling a hole to a prescribed depth and inserting the outer tube. Fill the outer tube with neat cement grout and immediately insert a #6 or larger epoxy coated inner threadbar. Inserted length and spacing will be determined by the Contractor's Engineer and identified in the Contractor's stamped plans and submittals.	
31 32 36 33-0002	EA	Drilled / Launched GalvaDized™ SuperMicropiles™ Up To 20 Ft. Length	695.00
		Note: GalvaDized™ steel tube, grouted with #6 epoxy coated inner Bar.	
31 32 36 33-0003	EA	Drilled / Launched GalvaDized™ SuperMicropiles™ Up To 30 Ft. Length	1,020.00
		Note: GalvaDized™ steel tube, grouted with #6 epoxy coated inner Bar.	
31 32 36 33-0004	EA	Drilled / Launched GalvaDized™ SuperMicropiles™ Up To 40 Ft. Length	1,280.00
		Note: GalvaDized™ steel tube, grouted with #6 epoxy coated inner Bar.	
31 32 36 33-0005	EA	Drilled / Launched GalvaDized™ SuperMicropiles™ Up To 50 Ft. Length	1,540.00
		Note: GalvaDized™ steel tube, grouted with #6 epoxy coated inner Bar.	



	Earthwork	31	
	Earthwork Methods	31 30	
	Soil Stabilization	31 32	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

31 35 Slope Protection (31 30)

31 35 19 Geosynthetic Slope Protection (31 35)

31 35 19 19 Slope Protection with Mulch Control Netting (31 35 19)

31 35 19 19-0001 Erosion Control Fabric (31 35 19 19)

31 35 19 19-0002 SY 26.6 OZ/SY Erosion Control Fabric (Belton Industries Geocoir 900).....5.10

31 36 Gabions (31 30)

Note: Includes the cost for loading, hauling up to 15 miles from the closest approved source, unloading and placing. See CSI section 01 74 19 00-0029 for hauling greater than 15 miles.

31 36 13 Gabion Boxes (31 36)

31 36 13 00-0001 Stone Filled Gabion Slope Protection (31 36 13)

Note: Machine placed by SY of total top face area for depth indicated.

31 36 13 00-0002 SY 6" Deep Stone Filled Gabion Slope Protection 72.93
31 36 13 00-0003 SY 9" Deep Stone Filled Gabion Slope Protection 86.46
31 36 13 00-0004 SY 12" Deep Stone Filled Gabion Slope Protection 105.19
31 36 13 00-0005 SY 15" Deep Stone Filled Gabion Slope Protection 123.92
31 36 13 00-0006 SY 18" Deep Stone Filled Gabion Slope Protection 145.38
31 36 13 00-0007 SY 24" Deep Stone Filled Gabion Slope Protection 199.26
31 36 13 00-0008 SY 36" Deep Stone Filled Gabion Slope Protection 252.15

31 37 Riprap (31 30)

Note: Includes the cost for loading, hauling up to 15 miles from the closest approved source, and dumping. See CSI section 01 74 19 00-0029 for hauling greater than 15 miles.

31 37 13 Machined Riprap (31 37)

31 37 13 00-0001 Random - Filter Stone (31 37 13)

31 37 13 00-0002 CY 10 To 50 LB Average Pieces Random, Dumped From Truck, Rip Rap 61.44
For Chinking Material, Add 14.22
31 37 13 00-0003 CY >50 To 100 LB Average Pieces Random, Dumped From Truck, Rip Rap 70.89
For Chinking Material, Add 14.22
31 37 13 00-0004 CY >100 To 200 LB Average Pieces Random, Dumped From Truck, Rip Rap 75.34
For Chinking Material, Add 14.22
31 37 13 00-0005 CY >200 To 300 LB Average Pieces Random, Dumped From Truck, Rip Rap 80.41
For Chinking Material, Add 14.22
31 37 13 00-0006 CY >300 To 600 LB Average Pieces Random, Dumped From Truck, Rip Rap 84.50
For Chinking Material, Add 14.22
31 37 13 00-0007 CY >600 LB Average Pieces Random, Dumped From Truck, Rip Rap 91.19
31 37 13 00-0008 CY 3/8 To 1/4 CY Pieces Random, Dumped From Truck, Machine Spread And Placed Slope Protection (Keyed) Rip
Rap 109.65
31 37 13 00-0009 TON 10 To 50 LB Average Pieces Random, Dumped From Truck, Rip Rap 40.95
31 37 13 00-0010 TON >50 To 100 LB Average Pieces Random, Dumped From Truck, Rip Rap 46.95
31 37 13 00-0011 TON >100 To 200 LB Average Pieces Random, Dumped From Truck, Rip Rap 49.78
31 37 13 00-0012 TON >200 To 300 LB Average Pieces Random, Dumped From Truck, Rip Rap 53.00
31 37 13 00-0013 TON >300 To 600 LB Average Pieces Random, Dumped From Truck, Rip Rap 55.59
31 37 13 00-0014 TON >600 LB Average Pieces Random, Dumped From Truck, Rip Rap 59.89
31 37 13 00-0015 TON 3/8 To 1/4 CY Pieces Random, Dumped From Truck, Machine Spread And Placed Slope Protection (Keyed) Rip
Rap 74.45

31 40 Shoring and Underpinning (31)

31 41 Shoring (31 40)

31 41 13 Timber Shoring (31 41)

31 41 13 00-0001 Wood Sheet Piling (31 41 13)

31 41 13 00-0002 Pull And Salvage (31 41 13 00-0001)

Note: Includes soldier beams and lagging (wales, braces and spacers). Excludes tie-backs (rock bolting) where required.

31 41 13 00-0003 SF 8' Deep Excavation, Wood Shoring, Pull And Salvage 14.31
For Wood Sheeting Left In Place-0.50
31 41 13 00-0004 SF 10' Deep Excavation, Wood Shoring, Pull And Salvage 15.45
For Wood Sheeting Left In Place-0.70
31 41 13 00-0005 SF 12' Deep Excavation, Wood Shoring, Pull And Salvage 16.70
For Wood Sheeting Left In Place-0.90
31 41 13 00-0006 SF 14' Deep Excavation, Wood Shoring, Pull And Salvage 18.04
For Wood Sheeting Left In Place-1.15
31 41 13 00-0007 SF 16' Deep Excavation, Wood Shoring, Pull And Salvage 19.51
For Wood Sheeting Left In Place-1.40
31 41 13 00-0008 SF 18' Deep Excavation, Wood Shoring, Pull And Salvage 21.09
For Wood Sheeting Left In Place-1.71
31 41 13 00-0009 SF 20' Deep Excavation, Wood Shoring, Pull And Salvage 22.81
For Wood Sheeting Left In Place-2.04

31 Earthwork**31 40 Shoring and Underpinning****31 41 Shoring**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

31 41 16 Sheet Piling ^(31 41)**31 41 16 13 Steel Sheet Piling** ^(31 41 16)**31 41 16 13-0001 Standard Carbon Grade Steel Sheet Piling - Pull And Salvage** ^(31 41 16 13)

Note: Up to 3 months. 38.5 KSI steel per SF minimum. PSF indicated is for the weight of the material per square foot. Includes soldier beams and lagging (wales, braces and spacers). Excludes tie-backs (rock bolting) where required.

31 41 16 13-0002	TON Driven Steel Sheet Piling, 15' Excavation, 22 PSF Steel Sheet Piling, Pull And Salvage.....	2,098.51
	For Standard Sheet Piling Left In Place, Add	1,137.58
	For Lightweight Steel Sheet Piling 8.6 And 9.2 PSF Left In Place, Add	1,094.71
	For High Strength Sheet Piling 45,000 To 50,000 PSI Grade, Add	96.48
	For High Strength Sheet Piling 55,000 PSI Grade, Add	107.20
	For Lightweight Steel Sheet Piling 8.6 And 9.2 PSF, Add	332.31
	For Each Additional Month >3 Months, Add	53.60
31 41 16 13-0003	TON Driven Steel Sheet Piling, 20' Excavation, 27 PSF Steel Sheet Piling, Pull And Salvage.....	2,182.68
	For Standard Sheet Piling Left In Place, Add	1,095.50
	For Lightweight Steel Sheet Piling 8.6 And 9.2 PSF Left In Place, Add	1,052.62
	For High Strength Sheet Piling 45,000 To 50,000 PSI Grade, Add	96.48
	For High Strength Sheet Piling 55,000 PSI Grade, Add	107.20
	For Lightweight Steel Sheet Piling 8.6 And 9.2 PSF, Add	332.31
	For Each Additional Month >3 Months, Add	53.60
31 41 16 13-0004	TON Driven Steel Sheet Piling, 25' Excavation, 38 PSF Steel Sheet Piling, Pull And Salvage.....	2,574.05
	For Standard Sheet Piling Left In Place, Add	899.81
	For Lightweight Steel Sheet Piling 8.6 And 9.2 PSF Left In Place, Add	856.94
	For High Strength Sheet Piling 45,000 To 50,000 PSI Grade, Add	96.48
	For High Strength Sheet Piling 55,000 PSI Grade, Add	107.20
	For Lightweight Steel Sheet Piling 8.6 And 9.2 PSF, Add	332.31
	For Each Additional Month >3 Months, Add	53.60
31 41 16 13-0005	TON Driven Steel Sheet Piling, 30' Excavation, 38 PSF Steel Sheet Piling, Pull And Salvage.....	2,950.66
	For Standard Sheet Piling Left In Place, Add	711.51
	For Lightweight Steel Sheet Piling 8.6 And 9.2 PSF Left In Place, Add	668.63
	For High Strength Sheet Piling 45,000 To 50,000 PSI Grade, Add	96.48
	For High Strength Sheet Piling 55,000 PSI Grade, Add	107.20
	For Lightweight Steel Sheet Piling 8.6 And 9.2 PSF, Add	332.31
	For Each Additional Month >3 Months, Add	53.60
31 41 16 13-0006	TON Driven Steel Sheet Piling, 35' Excavation, 38 PSF Steel Sheet Piling, Pull And Salvage.....	3,172.18
	For Standard Sheet Piling Left In Place, Add	600.75
	For Lightweight Steel Sheet Piling 8.6 And 9.2 PSF Left In Place, Add	557.87
	For High Strength Sheet Piling 45,000 To 50,000 PSI Grade, Add	96.48
	For High Strength Sheet Piling 55,000 PSI Grade, Add	107.20
	For Lightweight Steel Sheet Piling 8.6 And 9.2 PSF, Add	332.31
	For Each Additional Month >3 Months, Add	53.60
31 41 16 13-0007	TON Driven Steel Sheet Piling, 40' Excavation, 38 PSF Steel Sheet Piling, Pull And Salvage.....	3,398.14
	For Standard Sheet Piling Left In Place, Add	487.77
	For Lightweight Steel Sheet Piling 8.6 And 9.2 PSF Left In Place, Add	444.89
	For High Strength Sheet Piling 45,000 To 50,000 PSI Grade, Add	96.48
	For High Strength Sheet Piling 55,000 PSI Grade, Add	107.20
	For Lightweight Steel Sheet Piling 8.6 And 9.2 PSF, Add	332.31
	For Each Additional Month >3 Months, Add	53.60

31 50 Excavation Support and Protection ⁽³¹⁾**31 52 Cofferdams** ^(31 50)**31 52 21 Portable Cofferdams** ^(31 52)**31 52 21 00-0001 Portable Cofferdams** ^(31 52 21)

Note: Excludes dewatering and pumps.

31 52 21 00-0002 Portable Cofferdam Rental ^(31 52 21 00-0001)

Note: Excludes delivery and installation.

31 52 21 00-0003	LF 3' High x 7' Width, Portable Cofferdam, Rental Per Month	48.28
	Note: Minimum 40'	
31 52 21 00-0004	LF 4' High x 9' Width, Portable Cofferdam, Rental Per Month	61.80
	Note: Minimum 40'	
31 52 21 00-0005	LF 5' High x 11' Width, Portable Cofferdam, Rental Per Month	86.91
	Note: Minimum 40'	
31 52 21 00-0006	LF 6' High x 13' Width, Portable Cofferdam, Rental Per Month	112.02
	Note: Minimum 40'	
31 52 21 00-0007	LF 8' High x 17' Width, Portable Cofferdam, Rental Per Month	144.85
	Note: Minimum 40'	
31 52 21 00-0008	LF 10' High x 21' Width, Portable Cofferdam, Rental Per Month	289.70
	Note: Minimum 40'	
31 52 21 00-0009	LF 12' High x 25' Width, Portable Cofferdam, Rental Per Month	405.57
	Note: Minimum 40'	
31 52 21 00-0010	LF 16' High x 33' Width, Portable Cofferdam, Rental Per Month	573.60
	Note: Minimum 40'	

31 52 21 00-0011 Portable Cofferdam Delivery And Set-up ^(31 52 21 00-0001)

Note: Excludes crane usage where required. See CSI section 01 22 23 00-0845 for crane lifting equipment.

31 52 21 00-0012	LF Up To 5' High, Portable Cofferdam, Delivery And Set-up In Dynamic (Rivers Or Streams) Water	10.72



		Earthwork	31
		Excavation Support and Protection	31 50
		Cofferdams	31 52

15

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 52 21 00-0013	LF	6' To 8' High, Portable Cofferdam, Delivery And Set-up In Dynamic (Rivers Or Streams) Water.....	17.15	
31 52 21 00-0014	LF	10' To 12' High, Portable Cofferdam, Delivery And Set-up In Dynamic (Rivers Or Streams) Water.....	25.73	
31 52 21 00-0015	LF	16' High, Portable Cofferdam, Delivery And Set-up In Dynamic (Rivers Or Streams) Water.....	34.32	
31 52 21 00-0016	LF	Up To 5' High, Portable Cofferdam, Delivery And Set-up In Static (Lakes Or Ponds) Water.....	6.43	
31 52 21 00-0017	LF	6' To 8' High, Portable Cofferdam, Delivery And Set-up In Static (Lakes Or Ponds) Water.....	10.72	
31 52 21 00-0018	LF	10' To 12' High, Portable Cofferdam, Delivery And Set-up In Static (Lakes Or Ponds) Water.....	17.15	
31 52 21 00-0019	LF	16' High, Portable Cofferdam, Delivery And Set-up In Static (Lakes Or Ponds) Water	23.59	
31 52 21 00-0020		Portable Cofferdam Repositioning (31 52 21 00-0001)		
31 52 21 00-0021	LF	Up To 5' High, Portable Cofferdam, Repositioning	5.36	
31 52 21 00-0022	LF	6' To 8' High, Portable Cofferdam, Repositioning	8.58	
31 52 21 00-0023	LF	10' To 12' High, Portable Cofferdam, Repositioning	12.87	
31 52 21 00-0024	LF	16' High, Portable Cofferdam, Repositioning	17.15	
31 60 Special Foundations and Load-bearing Elements (31)				
31 62 Driven Piles (31 60)				
31 62 16 Steel Piles (31 62)				
31 62 16 16 Steel H Piles (31 62 16)				
31 62 16 16-0001		Rolled, Driven Steel H Piles (31 62 16 16)		
31 62 16 16-0002	VLF	8" x 8" x 36 LB/FT, Rolled, Driven Steel H Pile.....	33.80	
		<i>For Piles Driven In Water, Add</i>	17.20	
31 62 16 16-0003	VLF	10" x 10" x 42 LB/FT, Rolled, Driven Steel H Pile.....	37.65	
		<i>For Piles Driven In Water, Add</i>	18.27	
31 62 16 16-0004	VLF	10" x 10" x 57 LB/FT, Rolled, Driven Steel H Pile.....	45.33	
		<i>For Piles Driven In Water, Add</i>	19.04	
31 62 16 16-0005	VLF	12" x 12" x 53 LB/FT, Rolled, Driven Steel H Pile.....	43.75	
		<i>For Piles Driven In Water, Add</i>	19.31	
31 62 16 16-0006	VLF	12" x 12" x 63 LB/FT, Rolled, Driven Steel H Pile.....	48.88	
		<i>For Piles Driven In Water, Add</i>	19.82	
31 62 16 16-0007	VLF	12" x 12" x 74 LB/FT, Rolled, Driven Steel H Pile.....	55.91	
		<i>For Piles Driven In Water, Add</i>	21.77	
31 62 16 16-0008	VLF	12" x 12" x 84 LB/FT, Rolled, Driven Steel H Pile.....	61.03	
		<i>For Piles Driven In Water, Add</i>	22.29	
31 62 16 16-0009	VLF	14" x 14" x 73 LB/FT, Rolled, Driven Steel H Pile.....	55.83	
		<i>For Piles Driven In Water, Add</i>	22.16	
31 62 16 16-0010	VLF	14" x 14" x 89 LB/FT, Rolled, Driven Steel H Pile.....	64.55	
		<i>For Piles Driven In Water, Add</i>	23.03	
31 62 16 16-0011	VLF	14" x 14" x 102 LB/FT, Rolled, Driven Steel H Pile.....	72.24	
		<i>For Piles Driven In Water, Add</i>	25.19	
31 62 16 16-0012	VLF	14" x 14" x 117 LB/FT, Rolled, Driven Steel H Pile.....	80.44	
		<i>For Piles Driven In Water, Add</i>	26.01	
31 62 16 16-0013		Splices, Caps, And Points For H-Piles (31 62 16 16)		
31 62 16 16-0014		Rolled Steel H Pile Splices (31 62 16 16-0013)		
31 62 16 16-0015	EA	8" Rolled Steel H Pile Splice.....	309.99	
31 62 16 16-0016	EA	10" Rolled Steel H Pile Splice.....	346.39	
31 62 16 16-0017	EA	12" Rolled Steel H Pile Splice.....	475.76	
31 62 16 16-0018	EA	14" Rolled Steel H Pile Splice.....	493.96	
31 62 16 16-0019		Rolled Steel H Driving Caps (31 62 16 16-0013)		
31 62 16 16-0020	EA	8" Rolled Steel H Driving Cap.....	3,030.86	
31 62 16 16-0021	EA	10" Rolled Steel H Driving Cap.....	3,030.86	
31 62 16 16-0022	EA	12" Rolled Steel H Driving Cap.....	3,089.21	
31 62 16 16-0023	EA	14" Rolled Steel H Driving Cap.....	4,636.36	
31 62 16 16-0024		Rolled Steel H Standard Pile Points (31 62 16 16-0013)		
31 62 16 16-0025	EA	8" Rolled Steel H Standard Pile Point.....	328.19	
31 62 16 16-0026	EA	10" Rolled Steel H Standard Pile Point.....	346.39	
31 62 16 16-0027	EA	12" Rolled Steel H Standard Pile Point.....	475.76	
31 62 16 16-0028	EA	14" Rolled Steel H Standard Pile Point.....	530.37	
31 62 16 16-0029	EA	10" Rolled Steel H Standard Pile Point.....	475.76	
31 62 16 16-0030	EA	14" Rolled Steel H Standard Pile Point.....	565.62	
31 62 16 19 Unfilled Tubular Steel Piles (31 62 16)				
31 62 16 19-0001		Unfilled Tubular Driven Steel Piles (31 62 16 19)		
31 62 16 19-0002	VLF	8" Diameter x 29 LB/FT, Unfilled Tubular Driven Steel Pile.....	56.86	
		<i>For Piles Driven In Water, Add</i>	23.37	
31 62 16 19-0003	VLF	8" Diameter x 36 LB/FT, Unfilled Tubular Driven Steel Pile.....	66.16	
		<i>For Piles Driven In Water, Add</i>	24.30	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 62 Driven Piles**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 16 19-0004 VLF 8" Diameter x 43 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	76.20 25.31	
31 62 16 19-0005 VLF 10" Diameter x 34 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	66.16 24.30	
31 62 16 19-0006 VLF 10" Diameter x 41 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	75.00 25.19	
31 62 16 19-0007 VLF 10" Diameter x 55 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	94.53 27.14	
31 62 16 19-0008 VLF 12" Diameter x 42 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	78.15 26.44	
31 62 16 19-0009 VLF 12" Diameter x 50 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	88.50 27.47	
31 62 16 19-0010 VLF 12" Diameter x 54 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	94.24 28.05	
31 62 16 19-0011 VLF 12" Diameter x 65 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	110.33 29.65	
31 62 16 19-0012 VLF 14" Diameter x 46 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	84.45 29.01	
31 62 16 19-0013 VLF 14" Diameter x 55 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	96.15 30.18	
31 62 16 19-0014 VLF 14" Diameter x 64 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	107.86 31.35	
31 62 16 19-0015 VLF 14" Diameter x 72 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	119.56 32.52	
31 62 16 19-0016 VLF 16" Diameter x 52 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	93.95 32.37	
31 62 16 19-0017 VLF 16" Diameter x 63 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	107.63 33.74	
31 62 16 19-0018 VLF 16" Diameter x 83 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	134.32 36.41	
31 62 16 19-0019 VLF 18" Diameter x 59 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	116.56 36.57	
31 62 16 19-0020 VLF 18" Diameter x 71 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	134.34 38.35	
31 62 16 19-0021 VLF 18" Diameter x 93 LB/FT, Unfilled Tubular Driven Steel Pile <i>For Piles Driven In Water, Add</i>	168.12 41.72	
31 62 16 19-0022 Splices And Points For Pipe Piles (31 62 16 19)		
31 62 16 19-0023 Steel Pipe Pile Splices (31 62 16 19-0022)		
31 62 16 19-0024 EA 8" Diameter, Steel Pipe Pile Splice	384.67	
31 62 16 19-0025 EA 10" Diameter, Steel Pipe Pile Splice	428.11	
31 62 16 19-0026 EA 12" Diameter, Steel Pipe Pile Splice	542.56	
31 62 16 19-0027 EA 14" Diameter, Steel Pipe Pile Splice	585.40	
31 62 16 19-0028 EA 16" Diameter, Steel Pipe Pile Splice	728.25	
31 62 16 19-0029 EA 18" Diameter, Steel Pipe Pile Splice	899.72	
31 62 16 19-0030 Steel Pipe Standard Pile Points (31 62 16 19-0022)		
31 62 16 19-0031 EA 8" Diameter, Steel Pipe Standard Pile Point	353.53	
31 62 16 19-0032 EA 10" Diameter, Steel Pipe Standard Pile Point	388.32	
31 62 16 19-0033 EA 12" Diameter, Steel Pipe Standard Pile Point	445.92	
31 62 16 19-0034 EA 14" Diameter, Steel Pipe Standard Pile Point	541.59	
31 62 16 19-0035 EA 16" Diameter, Steel Pipe Standard Pile Point	628.57	
31 62 16 19-0036 EA 18" Diameter, Steel Pipe Standard Pile Point	719.60	
31 62 16 19-0037 Steel Pipe Heavy Duty Pile Points (31 62 16 19-0022)		
31 62 16 19-0038 EA 10" Diameter, Steel Pipe Heavy Duty Pile Point	501.81	
31 62 16 19-0039 EA 12" Diameter, Steel Pipe Heavy Duty Pile Point	545.30	
31 62 16 19-0040 EA 14" Diameter, Steel Pipe Heavy Duty Pile Point	620.52	
31 62 16 19-0041 EA 16" Diameter, Steel Pipe Heavy Duty Pile Point	794.47	
31 62 16 19-0042 EA 18" Diameter, Steel Pipe Heavy Duty Pile Point	927.12	
31 62 23 Composite Piles (31 62)		
31 62 23 13 Concrete-Filled Steel Piles (31 62 23)		
31 62 23 13-0001 Concrete-Filled Driven Steel Pipe Piles (31 62 23 13)		
Note: Includes 4,000 PSI concrete grout. Excludes reinforcing.		
31 62 23 13-0002 VLF 8" Diameter x 29 LB/FT, Concrete-Filled Driven Steel Pipe Pile <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	61.41 7.82 25.37	
31 62 23 13-0003 VLF 8" Diameter x 36 LB/FT, Concrete-Filled Driven Steel Pipe Pile <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	70.71 8.75 26.30	
31 62 23 13-0004 VLF 8" Diameter x 43 LB/FT, Concrete-Filled Driven Steel Pipe Pile <i>For 5,000 PSI Concrete Grout Fill, Add</i> <i>For Piles Driven In Water, Add</i>	80.76 9.76 27.31	



		Earthwork	31
		Special Foundations and Load-bearing Elements	31 60
		Driven Piles	31 62

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 23 13-0005 VLF 10" Diameter x 34 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	72.86 11.06 26.94	
31 62 23 13-0006 VLF 10" Diameter x 41 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	81.70 11.95 27.83	
31 62 23 13-0007 VLF 10" Diameter x 55 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	101.23 13.90 29.78	
31 62 23 13-0008 VLF 12" Diameter x 42 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	87.59 14.97 30.07	
31 62 23 13-0009 VLF 12" Diameter x 50 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	97.93 16.01 31.11	
31 62 23 13-0010 VLF 12" Diameter x 54 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	103.68 16.58 31.68	
31 62 23 13-0011 VLF 12" Diameter x 65 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	119.77 18.19 33.29	
31 62 23 13-0012 VLF 14" Diameter x 46 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	96.96 18.60 34.61	
31 62 23 13-0013 VLF 14" Diameter x 55 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	108.67 19.77 35.78	
31 62 23 13-0014 VLF 14" Diameter x 64 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	120.37 20.94 36.95	
31 62 23 13-0015 VLF 14" Diameter x 72 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	132.07 22.11 38.12	
31 62 23 13-0016 VLF 16" Diameter x 52 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	107.91 23.11 37.20	
31 62 23 13-0017 VLF 16" Diameter x 63 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	121.60 24.48 38.57	
31 62 23 13-0018 VLF 16" Diameter x 83 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	148.28 27.14 41.23	
31 62 23 13-0019 VLF 18" Diameter x 59 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	133.55 29.52 41.89	
31 62 23 13-0020 VLF 18" Diameter x 71 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	151.33 31.29 43.66	
31 62 23 13-0021 VLF 18" Diameter x 93 LB/FT, Concrete-Filled Driven Steel Pipe Pile..... For 5,000 PSI Concrete Grout Fill, Add For Piles Driven In Water, Add	185.10 34.67 47.04	
31 62 23 13-0022 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Piles (31 62 23 13) Note: End bearing, with fluted steel casing, up to 50'. Includes 4,000 PSI concrete. Excludes reinforcing.		
31 62 23 13-0023 VLF 12" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile..... For Piles Driven In Water, Add	80.44 22.79	
31 62 23 13-0024 VLF 14" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile..... For Piles Driven In Water, Add	97.99 25.59	
31 62 23 13-0025 VLF 16" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile..... For Piles Driven In Water, Add	111.08 28.12	
31 62 23 13-0026 VLF 18" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile..... For Piles Driven In Water, Add	120.85 30.51	
31 62 23 13-0027 Tapered Friction Concrete-Filled Driven Steel Piles (31 62 23 13) Note: With fluted steel casing, up to 50'. Includes 4,000 PSI concrete. Excludes reinforcing.		
31 62 23 13-0028 VLF 12" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile..... For Piles Driven In Water, Add	78.86 22.63	
31 62 23 13-0029 VLF 14" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile..... For Piles Driven In Water, Add	80.82 23.88	
31 62 23 13-0030 VLF 16" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile..... For Piles Driven In Water, Add	99.04 26.91	
31 62 23 13-0031 VLF 18" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile..... For Piles Driven In Water, Add	114.48 29.87	
31 62 23 13-0032 Thin Wall Shell Straight Sided Driven Steel Piles (31 62 23 13)		
31 62 23 13-0033 VLF 8" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile..... For Piles Driven In Water, Add For Thick Wall Shell, Add	46.74 17.11 0.08	
31 62 23 13-0034 VLF 10" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile..... For Piles Driven In Water, Add For Thick Wall Shell, Add	51.57 18.97 0.09	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 62 Driven Piles**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 23 13-0035 VLF 12" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile.....	56.37	
For Piles Driven In Water, Add	20.84	
For Thick Wall Shell, Add	0.10	
31 62 23 13-0036 VLF 14" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile.....	61.21	
For Piles Driven In Water, Add	22.70	
For Thick Wall Shell, Add	0.11	
31 62 23 13-0037 VLF 16" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile.....	66.05	
For Piles Driven In Water, Add	24.57	
For Thick Wall Shell, Add	0.12	

31 63 Bored Piles (31 60)**31 63 36 Drilled Steel Piles** (31 63)

31 63 36 00-0001	Drill Hole (31 63 36)	
	Note: Excludes removal of excess material.	
31 63 36 00-0002	Drilling Mobilization (31 63 36 00-0001)	
31 63 36 00-0003	EA >12" To 24" Diameter Hole, Drilling Mobilization	936.75
31 63 36 00-0004	EA >24" Diameter Hole, Drilling Mobilization	1,249.01

31 63 36 00-0005	Drill Hole In Soil (31 63 36 00-0001)	
31 63 36 00-0006	LF 18" Diameter, Up To 24' Depth, Drilled/Augered Hole	51.14
31 63 36 00-0007	LF 20" Diameter, Up To 24' Depth, Drilled/Augered Hole	59.46
31 63 36 00-0008	LF 22" Diameter, Up To 24' Depth, Drilled/Augered Hole	69.87
31 63 36 00-0009	LF 24" Diameter, Up To 24' Depth, Drilled/Augered Hole	82.35
31 63 36 00-0010	LF 26" Diameter, Up To 24' Depth, Drilled/Augered Hole	89.02
31 63 36 00-0011	LF 28" Diameter, Up To 24' Depth, Drilled/Augered Hole	97.94
31 63 36 00-0012	LF 30" Diameter, Up To 24' Depth, Drilled/Augered Hole	107.27

31 63 36 00-0013	Steel H Piles (31 63 36)	
31 63 36 00-0014	Placed In Drilled Hole, Rolled Steel H-Section Piles (31 63 36 00-0013)	
	Note: Includes guides, bracing and alignment.	
31 63 36 00-0015	VLF 8" x 8" x 36 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	31.14
	For >2,400 To 3,600, Deduct	-1.10
	For >3,600 To 4,800, Deduct	-2.19
	For >4,800 To 6,000, Deduct	-3.75
	For >6,000, Deduct	-5.31
31 63 36 00-0016	VLF 10" x 10" x 42 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	34.86
	For >2,400 To 3,600, Deduct	-1.20
	For >3,600 To 4,800, Deduct	-2.41
	For >4,800 To 6,000, Deduct	-4.15
	For >6,000, Deduct	-5.90
31 63 36 00-0017	VLF 10" x 10" x 57 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	42.54
	For >2,400 To 3,600, Deduct	-1.40
	For >3,600 To 4,800, Deduct	-2.79
	For >4,800 To 6,000, Deduct	-4.92
	For >6,000, Deduct	-7.05
31 63 36 00-0018	VLF 12" x 12" x 53 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	40.89
	For >2,400 To 3,600, Deduct	-1.37
	For >3,600 To 4,800, Deduct	-2.73
	For >4,800 To 6,000, Deduct	-4.78
	For >6,000, Deduct	-6.82
31 63 36 00-0019	VLF 12" x 12" x 63 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	46.02
	For >2,400 To 3,600, Deduct	-1.49
	For >3,600 To 4,800, Deduct	-2.99
	For >4,800 To 6,000, Deduct	-5.29
	For >6,000, Deduct	-7.59
31 63 36 00-0020	VLF 12" x 12" x 74 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	52.79
	For >2,400 To 3,600, Deduct	-1.69
	For >3,600 To 4,800, Deduct	-3.38
	For >4,800 To 6,000, Deduct	-6.02
	For >6,000, Deduct	-8.66
31 63 36 00-0021	VLF 12" x 12" x 84 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	57.91
	For >2,400 To 3,600, Deduct	-1.82
	For >3,600 To 4,800, Deduct	-3.64
	For >4,800 To 6,000, Deduct	-6.53
	For >6,000, Deduct	-9.43
31 63 36 00-0022	VLF 14" x 14" x 73 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	52.64
	For >2,400 To 3,600, Deduct	-1.70
	For >3,600 To 4,800, Deduct	-3.39
	For >4,800 To 6,000, Deduct	-6.03
	For >6,000, Deduct	-8.66
31 63 36 00-0023	VLF 14" x 14" x 89 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile	61.36
	For >2,400 To 3,600, Deduct	-1.91
	For >3,600 To 4,800, Deduct	-3.83
	For >4,800 To 6,000, Deduct	-6.90
	For >6,000, Deduct	-9.97



		Earthwork	31
		Special Foundations and Load-bearing Elements	31 60
		Bored Piles	31 63

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 63 36 00-0024 VLF 14" x 14" x 102 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile.....	68.78	
For >2,400 To 3,600, Deduct	-2.13	
For >3,600 To 4,800, Deduct	-4.26	
For >4,800 To 6,000, Deduct	-7.70	
For >6,000, Deduct	-11.14	
31 63 36 00-0025 VLF 14" x 14" x 117 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile.....	76.98	
For >2,400 To 3,600, Deduct	-2.34	
For >3,600 To 4,800, Deduct	-4.67	
For >4,800 To 6,000, Deduct	-8.52	
For >6,000, Deduct	-12.37	
31 63 36 00-0026 Welded Steel Stud Pins (31 63 36 00-0013)		
Note: Includes welding to steel piles.		
31 63 36 00-0027 EA 5/8" Diameter x 2-1/2" Long, Welded Steel Stud Pins	13.30	
For >50 To 150, Deduct	-0.60	
For >150 To 250, Deduct	-1.24	
For >250 To 500, Deduct	-1.87	
For >500, Deduct	-2.51	
31 63 36 00-0028 EA 5/8" Diameter x 5" Long, Welded Steel Stud Pins	14.55	
For >50 To 150, Deduct	-0.60	
For >150 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.94	
For >500, Deduct	-2.60	
31 63 36 00-0029 EA 5/8" Diameter x 7" Long, Welded Steel Stud Pins	15.74	
For >50 To 150, Deduct	-0.60	
For >150 To 250, Deduct	-1.30	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.69	
31 63 36 00-0030 EA 3/4" Diameter x 2-1/2" Long, Welded Steel Stud Pins	14.64	
For >50 To 150, Deduct	-0.63	
For >150 To 250, Deduct	-1.32	
For >250 To 500, Deduct	-2.00	
For >500, Deduct	-2.68	
31 63 36 00-0031 EA 3/4" Diameter x 5" Long, Welded Steel Stud Pins	16.52	
For >50 To 150, Deduct	-0.63	
For >150 To 250, Deduct	-1.36	
For >250 To 500, Deduct	-2.09	
For >500, Deduct	-2.82	
31 63 36 00-0032 EA 3/4" Diameter x 7" Long, Welded Steel Stud Pins	17.84	
For >50 To 150, Deduct	-0.63	
For >150 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-2.16	
For >500, Deduct	-2.92	
31 63 36 00-0033 EA 7/8" Diameter x 2-1/2" Long, Welded Steel Stud Pins	16.27	
For >50 To 150, Deduct	-0.66	
For >150 To 250, Deduct	-1.40	
For >250 To 500, Deduct	-2.13	
For >500, Deduct	-2.87	
31 63 36 00-0034 EA 7/8" Diameter x 5" Long, Welded Steel Stud Pins	19.34	
For >50 To 150, Deduct	-0.66	
For >150 To 250, Deduct	-1.47	
For >250 To 500, Deduct	-2.29	
For >500, Deduct	-3.10	
31 63 36 00-0035 EA 7/8" Diameter x 7" Long, Welded Steel Stud Pins	20.84	
For >50 To 150, Deduct	-0.66	
For >150 To 250, Deduct	-1.51	
For >250 To 500, Deduct	-2.36	
For >500, Deduct	-3.21	
31 63 36 00-0036 Concrete Fill (31 63 36)		
See CSI section 03 37 16 00-0001 for pumping equipment.		
31 63 36 00-0037 VLF 18" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	53.84	
31 63 36 00-0038 VLF 20" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	59.81	
31 63 36 00-0039 VLF 22" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	65.80	
31 63 36 00-0040 VLF 24" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	71.77	
31 63 36 00-0041 VLF 26" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	77.76	
31 63 36 00-0042 VLF 28" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	83.74	
31 63 36 00-0043 VLF 30" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	96.47	

31 64 Caissons (31 60)**31 64 13 Box Caissons** (31 64)

31 64 13 00-0001 Caisson In Stable Ground No Casing Or Ground Water (31 64 13)
Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.

31 64 13 00-0002 Caisson In Stable Ground (31 64 13 00-0001)
Note: Includes 3000 PSI concrete and reinforcing.

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 64 Caissons**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0003	VLF	18" Diameter Caisson, No Casing Stable Ground, No Ground Water Note: 0.066 CY Concrete per VLF, 9 lbs rebar per VLF.	59.80	
		For >50' To 100' Deep, Add	6.00	
		For >100' To 150' Deep, Add	14.95	
		For >150' To 200' Deep, Add	20.21	
		For Right Angle Drilling, Add	15.26	
31 64 13 00-0004	VLF	24" Diameter Caisson, No Casing Stable Ground, No Ground Water Note: 0.116 CY Concrete per VLF, 14 lbs rebar per VLF.	76.96	
		For >50' To 100' Deep, Add	8.46	
		For >100' To 150' Deep, Add	19.24	
		For >150' To 200' Deep, Add	26.92	
		For Right Angle Drilling, Add	17.35	
31 64 13 00-0005	VLF	30" Diameter Caisson, No Casing Stable Ground, No Ground Water Note: 0.182 CY Concrete per VLF, 23 lbs rebar per VLF.	109.70	
		For >50' To 100' Deep, Add	12.55	
		For >100' To 150' Deep, Add	27.43	
		For >150' To 200' Deep, Add	39.00	
		For Right Angle Drilling, Add	23.17	
31 64 13 00-0006	VLF	36" Diameter Caisson, No Casing Stable Ground, No Ground Water Note: 0.262 CY Concrete per VLF, 33 lbs rebar per VLF.	146.21	
		For >50' To 100' Deep, Add	17.24	
		For >100' To 150' Deep, Add	36.55	
		For >150' To 200' Deep, Add	52.62	
		For Right Angle Drilling, Add	29.28	
31 64 13 00-0007	VLF	42" Diameter Caisson, No Casing Stable Ground, No Ground Water Note: 0.356 CY Concrete per VLF, 48 lbs rebar per VLF.	188.20	
		For >50' To 100' Deep, Add	22.93	
		For >100' To 150' Deep, Add	47.05	
		For >150' To 200' Deep, Add	68.65	
		For Right Angle Drilling, Add	35.40	
31 64 13 00-0008	VLF	48" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 0.465 CY Concrete per VLF, 57 lbs rebar per VLF.	228.51	
		For >50' To 100' Deep, Add	28.34	
		For >100' To 150' Deep, Add	57.13	
		For >150' To 200' Deep, Add	83.98	
		For Right Angle Drilling, Add	41.42	
31 64 13 00-0009	VLF	54" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 0.589 CY Concrete per VLF, 76 lbs rebar per VLF.	276.96	
		For >50' To 100' Deep, Add	35.27	
		For >100' To 150' Deep, Add	69.24	
		For >150' To 200' Deep, Add	102.95	
		For Right Angle Drilling, Add	47.29	
31 64 13 00-0010	VLF	60" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 0.727 CY Concrete per VLF, 93 lbs rebar per VLF.	327.08	
		For >50' To 100' Deep, Add	42.46	
		For >100' To 150' Deep, Add	81.77	
		For >150' To 200' Deep, Add	122.58	
		For Right Angle Drilling, Add	53.34	
31 64 13 00-0011	VLF	66" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 0.88 CY Concrete per VLF, 113 lbs rebar per VLF.	383.59	
		For >50' To 100' Deep, Add	50.53	
		For >100' To 150' Deep, Add	95.90	
		For >150' To 200' Deep, Add	144.67	
		For Right Angle Drilling, Add	60.27	
31 64 13 00-0012	VLF	72" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF.	447.88	
		For >50' To 100' Deep, Add	59.76	
		For >100' To 150' Deep, Add	111.97	
		For >150' To 200' Deep, Add	169.87	
		For Right Angle Drilling, Add	68.00	
31 64 13 00-0013	VLF	78" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 1.229 CY Concrete per VLF, 157 lbs rebar per VLF.	512.86	
		For >50' To 100' Deep, Add	69.24	
		For >100' To 150' Deep, Add	128.22	
		For >150' To 200' Deep, Add	195.53	
		For Right Angle Drilling, Add	75.32	
31 64 13 00-0014	VLF	84" Diameter Caisson No Casing Stable Ground, No Ground Water Note: 1.425 CY Concrete per VLF, 183 lbs rebar per VLF.	582.31	
		For >50' To 100' Deep, Add	79.42	
		For >100' To 150' Deep, Add	145.58	
		For >150' To 200' Deep, Add	223.02	
		For Right Angle Drilling, Add	82.99	
31 64 13 00-0015		For Bell Excavation And Concrete, Add (31 64 13 00-0001)		
31 64 13 00-0016	EA	Bell Excavation And Concrete, 4' Bell Diameter Stable Ground, 24" Shaft, 0.44 CY For >50' To 100' Deep, Add	453.81	
		For >100' To 150' Deep, Add	38.37	
		For >150' To 200' Deep, Add	113.45	
			144.39	
31 64 13 00-0017	EA	Bell Excavation And Concrete, 6' Bell Diameter Stable Ground, 30" Shaft, 1.57 CY For >50' To 100' Deep, Add	1,596.18	
		For >100' To 150' Deep, Add	135.19	
		For >150' To 200' Deep, Add	399.05	
			508.18	



		Earthwork	31
		Special Foundations and Load-bearing Elements	31 60
		Caissons	31 64

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0018 EA Bell Excavation And Concrete, 7' Bell Diameter Stable Ground, 36" Shaft, 2.33 CY..... For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add	2,426.92 209.35 606.73 777.41	
31 64 13 00-0019 EA Bell Excavation And Concrete, 8' Bell Diameter Stable Ground, 42" Shaft, 3.30 CY..... For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add	3,371.00 291.44 842.75 1,080.64	
31 64 13 00-0020 EA Bell Excavation And Concrete, 9' Bell Diameter Stable Ground, 48" Shaft, 4.48 CY..... For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add	4,547.27 385.02 1,136.82 1,447.57	
31 64 13 00-0021 EA Bell Excavation And Concrete, 10' Bell Diameter Stable Ground, 60" Shaft, 5.24 CY..... For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add	5,346.14 452.43 1,336.54 1,701.59	
31 64 13 00-0022 EA Bell Excavation And Concrete, 12' Bell Diameter Stable Ground, 72" Shaft, 8.74 CY..... For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add	9,060.94 765.01 2,265.24 2,881.71	
31 64 13 00-0023 EA Bell Excavation And Concrete, 14' Bell Diameter Stable Ground, 84" Shaft, 13.6 CY..... For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add	13,144.93 1,122.98 3,286.23 4,197.02	
31 64 13 00-0024 Caisson In Wet Ground, Casing Pulled ^(31 64 13) Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.		
31 64 13 00-0025 Caisson In Wet Ground ^(31 64 13 00-0024) Note: Includes 3000 PSI concrete and reinforcing.		
31 64 13 00-0026 VLF 18" Diameter Caisson Wet Ground, Casing Pulled..... Note: 0.066 CY Concrete per VLF, 9 lbs rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add	65.42 6.38 16.36 21.88 17.26	
31 64 13 00-0027 VLF 24" Diameter Caisson Wet Ground, Casing Pulled..... Note: 0.116 CY Concrete per VLF, 14 lbs rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add	109.81 10.76 27.45 36.78 28.84	
31 64 13 00-0028 VLF 30" Diameter Caisson Wet Ground, Casing Pulled..... Note: 0.182 CY Concrete per VLF, 23 lbs rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add	146.63 15.14 36.66 50.08 36.10	
31 64 13 00-0029 VLF 36" Diameter Caisson Wet Ground, Casing Pulled..... Note: 0.262 CY Concrete per VLF, 33 lbs rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add	201.92 21.14 50.48 69.34 48.77	
31 64 13 00-0030 VLF 42" Diameter Caisson Wet Ground, Casing Pulled..... Note: 0.356 CY Concrete per VLF, 48 lbs rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add	257.01 27.74 64.25 89.29 59.48	
31 64 13 00-0031 VLF 48" Diameter Caisson Wet Ground, Casing Pulled..... Note: 0.465 CY Concrete per VLF, 57 lbs rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add	310.15 34.05 77.54 108.47 69.99	
31 64 13 00-0032 VLF 54" Diameter Caisson Wet Ground, Casing Pulled..... Note: 0.589 CY Concrete per VLF, 76 lbs rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add	399.55 43.85 99.89 139.72 90.20	
31 64 13 00-0033 VLF 60" Diameter Caisson Wet Ground, Casing Pulled..... Note: 0.727 CY Concrete per VLF, 93 lbs rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add	489.56 53.83 122.39 171.33 110.20	
31 64 13 00-0034 VLF 66" Diameter Caisson Wet Ground, Casing Pulled..... Note: 0.87 CY Concrete per VLF, 113 lbs rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add	561.34 62.97 140.34 198.00 122.49	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 64 Caissons**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0035	VLF	72" Diameter Caisson Wet Ground, Casing Pulled.....	640.87	
		Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	73.26	
		For >100' To 150' Deep, Add	160.22	
		For >150' To 200' Deep, Add	227.77	
		For Right Angle Drilling, Add	135.54	
31 64 13 00-0036	VLF	78" Diameter Caisson Wet Ground, Casing Pulled.....	731.12	
		Note: 1.229 CY Concrete per VLF, 157 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	84.52	
		For >100' To 150' Deep, Add	182.78	
		For >150' To 200' Deep, Add	261.01	
		For Right Angle Drilling, Add	151.71	
31 64 13 00-0037	VLF	84" Diameter Caisson Wet Ground, Casing Pulled.....	826.27	
		Note: 1.425 CY Concrete per VLF, 183 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	96.50	
		For >100' To 150' Deep, Add	206.57	
		For >150' To 200' Deep, Add	296.21	
		For Right Angle Drilling, Add	168.37	
31 64 13 00-0038		For Bell Excavation And Concrete, Add (31 64 13 00-0024)		
31 64 13 00-0039	EA	Bell Excavation And Concrete, 4' Bell Diameter Wet Ground 24" Shaft, 0.44 CY.....	515.54	
		For >50' To 100' Deep, Add	42.69	
		For >100' To 150' Deep, Add	128.89	
		For >150' To 200' Deep, Add	162.91	
31 64 13 00-0040	EA	Bell Excavation And Concrete, 6' Bell Diameter Wet Ground, 30" Shaft, 1.57 CY.....	1,797.58	
		For >50' To 100' Deep, Add	149.29	
		For >100' To 150' Deep, Add	449.40	
		For >150' To 200' Deep, Add	568.60	
31 64 13 00-0041	EA	Bell Excavation And Concrete, 7' Bell Diameter Wet Ground, 36" Shaft, 2.33 CY.....	2,414.83	
		For >50' To 100' Deep, Add	184.07	
		For >100' To 150' Deep, Add	603.71	
		For >150' To 200' Deep, Add	743.24	
31 64 13 00-0042	EA	Bell Excavation And Concrete, 8' Bell Diameter Wet Ground, 42" Shaft, 3.3 CY.....	3,961.90	
		For >50' To 100' Deep, Add	332.81	
		For >100' To 150' Deep, Add	990.48	
		For >150' To 200' Deep, Add	1,257.91	
31 64 13 00-0043	EA	Bell Excavation And Concrete, 9' Bell Diameter Wet Ground, 48" Shaft, 4.48 CY.....	5,121.28	
		For >50' To 100' Deep, Add	425.20	
		For >100' To 150' Deep, Add	1,280.32	
		For >150' To 200' Deep, Add	1,619.78	
31 64 13 00-0044	EA	Bell Excavation And Concrete, 10' Bell Diameter Wet Ground, 60" Shaft, 5.24 CY.....	6,021.44	
		For >50' To 100' Deep, Add	499.70	
		For >100' To 150' Deep, Add	1,505.36	
		For >150' To 200' Deep, Add	1,904.18	
31 64 13 00-0045	EA	Bell Excavation And Concrete, 12' Bell Diameter Wet Ground, 72" Shaft, 8.74 CY.....	10,208.94	
		For >50' To 100' Deep, Add	845.37	
		For >100' To 150' Deep, Add	2,552.24	
		For >150' To 200' Deep, Add	3,226.11	
31 64 13 00-0046	EA	Bell Excavation And Concrete, 14' Bell Diameter Wet Ground, 84" Shaft, 13.6 CY.....	14,784.95	
		For >50' To 100' Deep, Add	1,237.78	
		For >100' To 150' Deep, Add	3,696.24	
		For >150' To 200' Deep, Add	4,689.02	
31 64 13 00-0047		Caisson In Soft Rock And Medium Hard Shale (31 64 13)		
		Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.		
31 64 13 00-0048		Caisson In Soft Rock (31 64 13 00-0047)		
		Note: Includes 3000 PSI concrete and reinforcing.		
31 64 13 00-0049	VLF	18" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	244.28	
		Note: 0.066 CY Concrete per VLF, 9 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	18.90	
		For >100' To 150' Deep, Add	61.07	
		For >150' To 200' Deep, Add	75.54	
		For Right Angle Drilling, Add	79.86	
31 64 13 00-0050	VLF	24" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	407.97	
		Note: 0.116 CY Concrete per VLF, 14 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	31.63	
		For >100' To 150' Deep, Add	101.99	
		For >150' To 200' Deep, Add	126.23	
		For Right Angle Drilling, Add	133.20	
31 64 13 00-0051	VLF	30" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	615.24	
		Note: 0.182 CY Concrete per VLF, 23 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	47.94	
		For >100' To 150' Deep, Add	153.81	
		For >150' To 200' Deep, Add	190.66	
		For Right Angle Drilling, Add	200.11	
31 64 13 00-0052	VLF	36" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water.....	787.82	
		Note: 0.262 CY Concrete per VLF, 33 lbs rebar per VLF.		
		For >50' To 100' Deep, Add	62.15	
		For >100' To 150' Deep, Add	196.96	
		For >150' To 200' Deep, Add	245.11	
		For Right Angle Drilling, Add	253.84	



		Earthwork	31
		Special Foundations and Load-bearing Elements	31 60
		Caissons	31 64

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0053	VLF	42" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water..... Note: 0.356 CY Concrete per VLF, 48 lbs rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add	1,006.15 80.18 251.54 314.03 321.68	
31 64 13 00-0054	VLF	48" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water..... Note: 0.465 CY Concrete per VLF, 57 lbs rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add	1,215.37 97.42 303.84 380.04 386.82	
31 64 13 00-0055	VLF	54" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water..... Note: 0.589 CY Concrete per VLF, 76 lbs rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add	1,487.46 120.01 371.87 466.10 470.97	
31 64 13 00-0056	VLF	60" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water..... Note: 0.727 CY Concrete per VLF, 93 lbs rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add	1,760.42 142.80 440.11 552.58 555.00	
31 64 13 00-0057	VLF	66" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water..... Note: 0.88 CY Concrete per VLF, 113 lbs rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add	1,938.54 159.37 484.64 611.16 604.50	
31 64 13 00-0058	VLF	72" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water..... Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add	2,123.58 177.05 530.90 672.58 654.49	
31 64 13 00-0059	VLF	78" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water..... Note: 1.229 CY Concrete per VLF, 157 lbs rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add	2,185.24 186.30 546.31 697.24 660.66	
31 64 13 00-0060	VLF	84" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water..... Note: 1.425 CY Concrete per VLF, 183 lbs rebar per VLF. For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add For Right Angle Drilling, Add	2,606.85 221.14 651.71 830.38 791.58	
31 64 13 00-0061		For Bell Excavation And Concrete, Add (31 64 13 00-0047)		
31 64 13 00-0062	EA	Bell Excavation And Concrete, 4' Bell Diameter Soft Rock/Shale 24" Shaft 0.44 CY For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add	869.15 67.44 217.29 268.99	
31 64 13 00-0063	EA	Bell Excavation And Concrete, 6' Bell Diameter Soft Rock/Shale 30" Shaft 1.57 CY For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add	3,059.28 237.61 764.82 947.11	
31 64 13 00-0064	EA	Bell Excavation And Concrete, 7' Bell Diameter Soft Rock/Shale 36" Shaft 2.33 CY For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add	4,598.33 361.35 1,149.58 1,428.83	
31 64 13 00-0065	EA	Bell Excavation And Concrete, 8' Bell Diameter Soft Rock/Shale 42" Shaft 3.3 CY For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add	6,544.63 513.60 1,636.16 2,032.73	
31 64 13 00-0066	EA	Bell Excavation And Concrete, 9' Bell Diameter Soft Rock/Shale 48" Shaft 4.48 CY For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add	8,629.10 670.75 2,157.28 2,672.12	
31 64 13 00-0067	EA	Bell Excavation And Concrete, 10" Bell Diameter Soft Rock/Shale 60" Shaft 5.24 CY For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add	10,504.93 813.55 2,626.23 3,249.23	
31 64 13 00-0068	EA	Bell Excavation And Concrete, 12' Bell Diameter Soft Rock/Shale 72" Shaft 8.74 CY For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add	15,925.41 1,245.52 3,981.35 4,941.05	
31 64 13 00-0069	EA	Bell Excavation And Concrete, 14' Bell Diameter Soft Rock/Shale 84" Shaft 13.6 CY For >50' To 100' Deep, Add For >100' To 150' Deep, Add For >150' To 200' Deep, Add	23,972.10 1,880.88 5,993.03 7,445.17	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 64 Caissons**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

31 64 13 00-0070		Caisson Setup And Removal (31 64 13)	
		Note: Includes mobilization of equipment, erection, dismantling of equipment, move off of site.	
31 64 13 00-0071	EA	Erect, Set Up, Dismantle And Removal Of Caisson 18" To 36" Diameter, Complete	3,964.76
31 64 13 00-0072	EA	Erect, Set Up, Dismantle And Removal Of Caisson 48" To 84" Diameter, Complete	5,659.40
31 64 13 00-0073	EA	Dismantle, Relocate, Erect And Set Up On Site At Different Location (During Same Phase Of Work), Caisson 18" To 36" Diameter.....	1,842.49
31 64 13 00-0074	EA	Dismantle, Relocate, Erect And Set Up On Site At Different Location (During Same Phase Of Work), Caisson 48" To 84" Diameter.....	2,456.65
31 64 13 00-0075	EA	Relocate Caisson Equipment To Different Hole On-Site Without Dismantling.....	153.54

31 68 Foundation Anchors (31 60)**31 68 13 Rock Foundation Anchors** (31 68)

31 68 13 00-0001		Materials And Placement (31 68 13)	
31 68 13 00-0002		Hollow Core Prestressable Anchor, ASTM A615 (31 68 13 00-0001)	
		Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.	
31 68 13 00-0003		3/4" Diameter (31 68 13 00-0002)	
31 68 13 00-0004	EA	3/4" Rock Bolt, 5' Hollow Core Prestressable Anchor.....	208.37
31 68 13 00-0005	EA	3/4" Rock Bolt, 10' Hollow Core Prestressable Anchor	299.50
31 68 13 00-0006	EA	3/4" Rock Bolt, 15' Hollow Core Prestressable Anchor	365.58
31 68 13 00-0007	EA	3/4" Rock Bolt, 20' Hollow Core Prestressable Anchor.....	481.77
31 68 13 00-0008		1" Diameter (31 68 13 00-0002)	
31 68 13 00-0009	EA	1" Rock Bolt, 5' Hollow Core Prestressable Anchor	263.60
31 68 13 00-0010	EA	1" Rock Bolt, 10' Hollow Core Prestressable Anchor	405.70
31 68 13 00-0011	EA	1" Rock Bolt, 15' Hollow Core Prestressable Anchor	522.77
31 68 13 00-0012	EA	1" Rock Bolt, 20' Hollow Core Prestressable Anchor.....	689.96
31 68 13 00-0013		1-3/8" Diameter (31 68 13 00-0002)	
31 68 13 00-0014	EA	1-3/8" Rock Bolt, 5' Hollow Core Prestressable Anchor.....	433.92
31 68 13 00-0015	EA	1-3/8" Rock Bolt, 10' Hollow Core Prestressable Anchor	673.68
31 68 13 00-0016	EA	1-3/8" Rock Bolt, 15' Hollow Core Prestressable Anchor.....	888.44
31 68 13 00-0017	EA	1-3/8" Rock Bolt, 20' Hollow Core Prestressable Anchor.....	1,153.26
31 68 13 00-0018		2" Diameter (31 68 13 00-0002)	
31 68 13 00-0019	EA	2" Rock Bolt, 5' Hollow Core Prestressable Anchor.....	951.89
31 68 13 00-0020	EA	2" Rock Bolt, 10' Hollow Core Prestressable Anchor.....	1,414.72
31 68 13 00-0021	EA	2" Rock Bolt, 15' Hollow Core Prestressable Anchor	1,852.45
31 68 13 00-0022	EA	2" Rock Bolt, 20' Hollow Core Prestressable Anchor.....	2,340.35
31 68 13 00-0023		Super High-Tensile Anchors, ASTM A-108 (31 68 13 00-0001)	
		Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.	
31 68 13 00-0024		3/4" Diameter (31 68 13 00-0023)	
31 68 13 00-0025	EA	3/4" Rock Bolt, 5' Super High-Tensile Anchor.....	152.48
31 68 13 00-0026	EA	3/4" Rock Bolt, 10' Super High-Tensile Anchor.....	203.42
31 68 13 00-0027	EA	3/4" Rock Bolt, 15' Super High-Tensile Anchor.....	229.22
31 68 13 00-0028	EA	3/4" Rock Bolt, 20' Super High-Tensile Anchor.....	303.27
31 68 13 00-0029		1" Diameter (31 68 13 00-0023)	
31 68 13 00-0030	EA	1" Rock Bolt, 5' Super High-Tensile Anchor.....	181.15
31 68 13 00-0031	EA	1" Rock Bolt, 10' Super High-Tensile Anchor.....	251.72
31 68 13 00-0032	EA	1" Rock Bolt, 15' Super High-Tensile Anchor.....	294.94
31 68 13 00-0033	EA	1" Rock Bolt, 20' Super High-Tensile Anchor.....	388.26
31 68 13 00-0034		1-1/4" Diameter (31 68 13 00-0023)	
31 68 13 00-0035	EA	1-1/4" Rock Bolt, 5' Super High-Tensile Anchor	265.35
31 68 13 00-0036	EA	1-1/4" Rock Bolt, 10' Super High-Tensile Anchor	372.41
31 68 13 00-0037	EA	1-1/4" Rock Bolt, 15' Super High-Tensile Anchor	453.91
31 68 13 00-0038	EA	1-1/4" Rock Bolt, 20' Super High-Tensile Anchor	582.10
31 68 13 00-0039		2" Diameter (31 68 13 00-0023)	
31 68 13 00-0040	EA	2" Rock Bolt, 5' Super High-Tensile Anchor.....	693.94
31 68 13 00-0041	EA	2" Rock Bolt, 10' Super High-Tensile Anchor.....	986.30
31 68 13 00-0042	EA	2" Rock Bolt, 15' Super High-Tensile Anchor.....	1,203.66
31 68 13 00-0043	EA	2" Rock Bolt, 20' Super High-Tensile Anchor.....	1,484.29



		Earthwork	31
		Special Foundations and Load-bearing Elements	31 60
		Foundation Anchors	31 68

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0044		Solid Rebar Anchors, ASTM A615 (31 68 13 00-0001) Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.		
31 68 13 00-0045		3/4" Diameter (31 68 13 00-0044)		
31 68 13 00-0046	EA	3/4" Rock Bolt, 5' Solid Rebar Anchor	143.27	
31 68 13 00-0047	EA	3/4" Rock Bolt, 10' Solid Rebar Anchor	183.95	
31 68 13 00-0048	EA	3/4" Rock Bolt, 15' Solid Rebar Anchor	199.56	
31 68 13 00-0049	EA	3/4" Rock Bolt, 20' Solid Rebar Anchor	265.30	
31 68 13 00-0050		1" Diameter (31 68 13 00-0044)		
31 68 13 00-0051	EA	1" Rock Bolt, 5' Solid Rebar Anchor	160.99	
31 68 13 00-0052	EA	1" Rock Bolt, 10' Solid Rebar Anchor	213.25	
31 68 13 00-0053	EA	1" Rock Bolt, 15' Solid Rebar Anchor	240.50	
31 68 13 00-0054	EA	1" Rock Bolt, 20' Solid Rebar Anchor	317.79	
31 68 13 00-0055		1-1/4" Diameter (31 68 13 00-0044)		
31 68 13 00-0056	EA	1-1/4" Rock Bolt, 5' Solid Rebar Anchor	231.86	
31 68 13 00-0057	EA	1-1/4" Rock Bolt, 10' Solid Rebar Anchor	299.43	
31 68 13 00-0058	EA	1-1/4" Rock Bolt, 15' Solid Rebar Anchor	342.06	
31 68 13 00-0059	EA	1-1/4" Rock Bolt, 20' Solid Rebar Anchor	434.75	
31 68 13 00-0060		Resin Anchoring With Grade 60 Rebar (31 68 13 00-0001) Note: Pricing includes only material and labor to install anchors.. See CSI section 31 68 13 00-0081 for rebar collars, 31 68 13 00-0083 for resin cartridges, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0207 for rock bolt testing.		
31 68 13 00-0061		Rebar #6 (31 68 13 00-0060)		
31 68 13 00-0062	EA	#6 Rebar Rock Anchor, 5' Resin Anchor With Grade 60 Rebar.....	81.08	
31 68 13 00-0063	EA	#6 Rebar Rock Anchor, 10' Resin Anchor With Grade 60 Rebar.....	112.06	
31 68 13 00-0064	EA	#6 Rebar Rock Anchor, 15' Resin Anchor With Grade 60 Rebar.....	118.00	
31 68 13 00-0065	EA	#6 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar.....	162.16	
31 68 13 00-0066		Rebar #8 (31 68 13 00-0060)		
31 68 13 00-0067	EA	#8 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar.....	85.70	
31 68 13 00-0068	EA	#8 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar.....	121.30	
31 68 13 00-0069	EA	#8 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar.....	131.85	
31 68 13 00-0070	EA	#8 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar.....	192.51	
31 68 13 00-0071		Rebar #10 (31 68 13 00-0060)		
31 68 13 00-0072	EA	#10 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar.....	92.30	
31 68 13 00-0073	EA	#10 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar.....	134.49	
31 68 13 00-0074	EA	#10 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar.....	151.65	
31 68 13 00-0075	EA	#10 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar.....	218.91	
31 68 13 00-0076		Rebar #14 (31 68 13 00-0060)		
31 68 13 00-0077	EA	#14 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar.....	108.13	
31 68 13 00-0078	EA	#14 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar.....	166.17	
31 68 13 00-0079	EA	#14 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar.....	199.16	
31 68 13 00-0080	EA	#14 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar.....	282.26	
31 68 13 00-0081		Plastic Rebar Collars, Sizes #6-#14 (31 68 13 00-0060)		
31 68 13 00-0082	EA	Plastic Rebar Collars For Rebar #4 To #14.....	2.28	
31 68 13 00-0083		12" Long Resin Cartridges (31 68 13 00-0001)		
31 68 13 00-0084	EA	7/8" Resin Cartridge 12" Long	1.63	
31 68 13 00-0085	EA	1" Resin Cartridge 12" Long	2.24	
31 68 13 00-0086	EA	1-1/16" Resin Cartridge 12" Long	2.40	
31 68 13 00-0087	EA	1-1/4" Resin Cartridge 12" Long	2.60	
31 68 13 00-0088	EA	1-3/8" Resin Cartridge 12" Long	2.98	
31 68 13 00-0089	EA	1-9/16" Resin Cartridge 12" Long	3.73	
31 68 13 00-0090	EA	1-3/4" Resin Cartridge 12" Long	5.13	
31 68 13 00-0091		Head Assembly (31 68 13 00-0001)		
31 68 13 00-0092		3/4" Rod Diameter (31 68 13 00-0091)		
31 68 13 00-0093	EA	3/4" Rod Head Assembly 1-5/8" Short Cone and Shell	28.87	
31 68 13 00-0094	EA	3/4" Rod Head Assembly 1-3/4" Short Cone and Shell	24.32	
31 68 13 00-0095	EA	3/4" Rod Head Assembly 1-7/8" Short Cone and Shell	25.50	

31 Earthwork**31 60 Special Foundations and Load-bearing Elements****31 68 Foundation Anchors**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0096	EA	3/4" Rod Head Assembly 1-3/4" Long Cone and Shell	45.80	
31 68 13 00-0097	EA	3/4" Rod Head Assembly 1-7/8" Long Cone and Shell	45.80	
31 68 13 00-0098	EA	3/4" Rod Head Assembly 1-3/4" Long Cone and Shell	43.39	
31 68 13 00-0099		1" Rod Diameter (31 68 13 00-0091)		
31 68 13 00-0100	EA	1" Rod Head Assembly 1-5/8" Short Cone and Shell	31.11	
31 68 13 00-0101	EA	1" Rod Head Assembly 1-3/4" Short Cone and Shell	26.63	
31 68 13 00-0102	EA	1" Rod Head Assembly 1-7/8" Short Cone and Shell	27.81	
31 68 13 00-0103	EA	1" Rod Head Assembly 1-3/4" Long Cone and Shell	48.17	
31 68 13 00-0104	EA	1" Rod Head Assembly 1-7/8" Long Cone and Shell	48.17	
31 68 13 00-0105	EA	1" Rod Head Assembly 1-3/4" Long Cone and Shell	45.93	
31 68 13 00-0106		1-1/4" Rod Diameter (31 68 13 00-0091)		
31 68 13 00-0107	EA	1-1/4" Rod Head Assembly 2" Short Cone and Shell	69.42	
31 68 13 00-0108	EA	1-1/4" Rod Head Assembly 2-1/4" Short Cone and Shell	81.10	
31 68 13 00-0109	EA	1-1/4" Rod Head Assembly 2-1/2" Short Cone and Shell	82.25	
31 68 13 00-0110	EA	1-1/4" Rod Head Assembly 2-1/4" Long Cone and Shell	72.95	
31 68 13 00-0111	EA	1-1/4" Rod Head Assembly 2-1/2" Long Cone and Shell	85.06	
31 68 13 00-0112		1-7/8" Rod Diameter (31 68 13 00-0091)		
31 68 13 00-0113	EA	1-7/8" Rod Head Assembly 3-1/2" Long Cone/Shell/FI	273.22	
31 68 13 00-0114	EA	1-7/8" Rod Head Assembly 3" Long Cone and Shell	188.36	
31 68 13 00-0115		2" Rod Diameter (31 68 13 00-0091)		
31 68 13 00-0116	EA	2" Rod Head Assembly 3-1/2" Long Cone/Shell/FI	273.22	
31 68 13 00-0117	EA	2" Rod Head Assembly 3" Long Cone and Shell	188.36	
31 68 13 00-0118		Steel Plates With Standard Hole And Washers (31 68 13 00-0001)		
31 68 13 00-0119		Steel Plates (31 68 13 00-0118)		
31 68 13 00-0120	EA	1/4" x 4" x 4" Steel Plate For Rock Bolt With Washer	3.65	
31 68 13 00-0121	EA	1/4" x 6" x 6" Steel Plate For Rock Bolt With Washer	6.75	
31 68 13 00-0122	EA	3/8" x 6" x 6" Steel Plate For Rock Bolt With Washer	9.39	
31 68 13 00-0123	EA	3/8" x 8" x 8" Steel Plate For Rock Bolt With Washer	16.47	
31 68 13 00-0124	EA	1/2" x 5" x 5" Steel Plate For Rock Bolt With Washer	6.40	
31 68 13 00-0125	EA	1/2" x 8" x 8" Steel Plate For Rock Bolt With Washer	16.80	
31 68 13 00-0126	EA	3/4" x 7" x 7" Steel Plate For Rock Bolt With Washer	27.88	
31 68 13 00-0127	EA	3/4" x 8" x 8" Steel Plate For Rock Bolt With Washer	39.50	
31 68 13 00-0128	EA	1" x 4" x 7" Steel Plate For Rock Bolt With Washer	23.71	
31 68 13 00-0129	EA	1" x 9" x 9" Steel Plate For Rock Bolt With Washer	67.07	
31 68 13 00-0130	EA	1" x 12" x 12" Steel Plate For Rock Bolt With Washer	98.84	
31 68 13 00-0131	EA	1-1/4" x 5" x 8" Steel Plate For Rock Bolt With Washer	43.39	
31 68 13 00-0132	EA	1-1/4" x 11" x 11" Steel Plate For Rock Bolt With Washer	117.34	
31 68 13 00-0133	EA	1-1/2" x 5" x 10" Steel Plate For Rock Bolt With Washer	58.68	
31 68 13 00-0134	EA	1-1/2" x 12" x 12" Steel Plate For Rock Bolt With Washer	141.15	
31 68 13 00-0135	EA	1-3/4" x 5" x 10" Steel Plate For Rock Bolt With Washer	64.77	
31 68 13 00-0136	EA	1-3/4" x 12" x 12" Steel Plate For Rock Bolt With Washer	156.54	
31 68 13 00-0137		Hardened Washers (31 68 13 00-0118)		
31 68 13 00-0138	EA	Hardened Washer For 3/4" Diameter Rock Bolt	0.96	
31 68 13 00-0139	EA	Hardened Washer For 1" Diameter Rock Bolt	1.32	
31 68 13 00-0140	EA	Hardened Washer For 1-1/4" Diameter Rock Bolt	3.70	
31 68 13 00-0141	EA	Hardened Washer For 2" Diameter Rock Bolt	9.21	
31 68 13 00-0142		Beveled Washers (31 68 13 00-0118)		
31 68 13 00-0143	EA	Beveled Washer For 3/4" Diameter Rock Bolt	2.41	
31 68 13 00-0144	EA	Beveled Washer For 7/8" To 1-1/8" Diameter Rock Bolt	2.38	
31 68 13 00-0145	EA	Beveled Wash For 1-1/4" To 1-3/8" Diameter Rock Bolt	3.60	
31 68 13 00-0146	EA	Beveled Washer For 1-1/2" Diameter Rock Bolt	15.38	
31 68 13 00-0147	EA	Beveled Washer For 2" Diameter Rock Bolt	10.62	
31 68 13 00-0148		Hex Nuts (31 68 13 00-0118)		
31 68 13 00-0149	EA	Hex Nut For 3/4" Diameter Rock Bolt	1.88	
31 68 13 00-0150	EA	Hex Nut For 1" Diameter Rock Bolt	3.07	
31 68 13 00-0151	EA	Hex Nut For 1-1/4" Diameter Rock Bolt	12.57	
31 68 13 00-0152	EA	Hex Nut For 1-1/2" Diameter Rock Bolt	7.92	
31 68 13 00-0153	EA	Hex Nut For 2" Diameter Rock Bolt	50.51	
31 68 13 00-0154		Drilling Operation For Rockbolts (31 68 13)		
31 68 13 00-0155		Drill Holes For Rock Bolts (31 68 13 00-0154)		



Earthwork		31
Special Foundations and Load-bearing Elements		31 60
Foundation Anchors		31 68

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0156		3/4" Diameter Bolt, 1-3/4" Hole (31 68 13 00-0155)		
31 68 13 00-0157	EA	Drill 1-3/4" Diameter Hole x 5' Long For 3/4" Diameter Rock Bolts.....	182.81	
31 68 13 00-0158	EA	Drill 1-3/4" Diameter Hole x 10' Long For 3/4" Diameter Rock Bolts.....	345.29	
31 68 13 00-0159	EA	Drill 1-3/4" Diameter Hole x 15' Long For 3/4" Diameter Rock Bolts.....	517.94	
31 68 13 00-0160	EA	Drill 1-3/4" Diameter Hole x 20' Long For 3/4" Diameter Rock Bolts.....	621.52	
31 68 13 00-0161		1" Diameter Bolt, 2" Hole (31 68 13 00-0155)		
31 68 13 00-0162	EA	Drill 2" Diameter Hole x 5' Long For 1" Diameter Rock Bolt.....	239.05	
31 68 13 00-0163	EA	Drill 2" Diameter Hole x 10' Long For 1" Diameter Rock Bolt.....	443.95	
31 68 13 00-0164	EA	Drill 2" Diameter Hole x 15' Long For 1" Diameter Rock Bolt.....	621.52	
31 68 13 00-0165	EA	Drill 2" Diameter Hole x 20' Long For 1" Diameter Rock Bolt.....	776.90	
31 68 13 00-0166		1-1/4" Diameter Bolt, 2-1/4" Hole (31 68 13 00-0155)		
31 68 13 00-0167	EA	Drill 2-1/4" Diameter Hole x 5' Long For 1-1/4" Diameter Rock Bolt.....	258.97	
31 68 13 00-0168	EA	Drill 2-1/4" Diameter Hole x 10' Long For 1-1/4" Diameter Rock Bolt.....	517.94	
31 68 13 00-0169	EA	Drill 2-1/4" Diameter Hole x 15' Long For 1-1/4" Diameter Rock Bolt.....	776.90	
31 68 13 00-0170	EA	Drill 2-1/4" Diameter Hole x 20' Long For 1-1/4" Diameter Rock Bolt.....	1,035.87	
31 68 13 00-0171		2" Diameter Bolt, 3-1/2" Hole (31 68 13 00-0155)		
31 68 13 00-0172	EA	Drill 3-1/2" Diameter Hole x 5' Long For 2" Diameter Rock Bolt.....	310.77	
31 68 13 00-0173	EA	Drill 3-1/2" Diameter Hole x 10' Long For 2" Diameter Rock Bolt.....	621.52	
31 68 13 00-0174	EA	Drill 3-1/2" Diameter Hole x 15' Long For 2" Diameter Rock Bolts.....	1,035.87	
31 68 13 00-0175	EA	Drill 3-1/2" Diameter Hole x 20' Long For 2" Diameter Rock Bolt.....	1,553.82	
31 68 13 00-0176		Tools (31 68 13)		
31 68 13 00-0177		Hydraulic Jacks, Monthly Rental (31 68 13 00-0176)		
31 68 13 00-0178	EA	1/2" To 1", 30 Ton Hydraulic Jack For Rock Bolt, 2" Stroke.....	704.31	
31 68 13 00-0179	EA	1-1/8" To 1-3/8", 60 Ton Hydraulic Jack For Rock Bolt, 3" Stroke.....	1,037.94	
31 68 13 00-0180	EA	1-1/8" To 1-3/8", 60 Ton Hydraulic Jack For Rock Bolt, 10" Stroke.....	1,741.25	
31 68 13 00-0181	EA	1-7/8" To 2", 100 Ton Hydraulic Jack For Rock Bolt, 10" Stroke.....	2,606.88	
31 68 13 00-0182	EA	1-7/8" To 2", 150 Ton Hydraulic Jack For Rock Bolt, 12" Stroke.....	3,896.80	
31 68 13 00-0183		Torque Wrenches And Ratchet Adapter, Monthly Rental (31 68 13 00-0176)		
31 68 13 00-0184		0-500 Foot Pounds (0-678J) (31 68 13 00-0183)		
31 68 13 00-0185	EA	1/2" To 1" Bolt Diameter Torque Wrench 0 To 500 Foot Pounds, Monthly Rental.....	246.46	
31 68 13 00-0186	EA	Torque Wrench Ratchet Adapter Monthly Rental, 0 To 500 Foot Pounds.....	154.49	
31 68 13 00-0187	EA	Torque Wrench With Adapter 0 To 500 Foot Pounds, Monthly Rental.....	401.25	
31 68 13 00-0188		0-600 Foot Pounds (0-814J) (31 68 13 00-0183)		
31 68 13 00-0189	EA	0 To 600 Foot Pounds Torque Wrench Self-Ratcheting, Monthly Rental.....	279.82	
31 68 13 00-0190		Up To 1,000 Foot Pounds (0-1356J) (31 68 13 00-0183)		
31 68 13 00-0191	EA	1-1/8" To 2" Bolt Diameter Torque Wrench 0 To 1,000 Foot Pounds, Monthly Rental.....	537.41	
31 68 13 00-0192	EA	Torque Wrench Ratchet Adapter 0 To 1,000 Foot Pounds, Monthly Rental.....	132.55	
31 68 13 00-0193	EA	Torque Wrench With Ratchet 0 To 1,000 Foot Pounds, Monthly Rental.....	669.96	
31 68 13 00-0194		Torque Multiplier, 4:1 Multiplier (31 68 13 00-0176)		
31 68 13 00-0195	EA	Torque Multiplier, 4 To 1 Ratio.....	688.29	
31 68 13 00-0196		Pneumatic Drive Torque Wrench (31 68 13 00-0176)		
31 68 13 00-0197	EA	Pneumatic Drive Torque Wrench 250 To 900 Foot Pounds (339J - 1220J).....	1,472.76	
31 68 13 00-0198		Grouting (31 68 13)		
31 68 13 00-0199		Grouting With Pumps (31 68 13 00-0198)		
		Note: Grout material and labor only.		
31 68 13 00-0200	GAL	Rock Bolt Grouting, Hand Pump 1 To 2 GPM Delivery.....	21.94	
31 68 13 00-0201	GAL	Rock Bolt Grouting, Air Pump 3 To 4 GPM Continuous Delivery.....	34.18	
31 68 13 00-0202	GAL	Rock Bolt Grout, Air/Piston Pump 2 To 4 GPM Delivery.....	31.55	
31 68 13 00-0203		Grout Pumps, Monthly Rental (31 68 13 00-0198)		
31 68 13 00-0204	EA	Hand Grout Pump, Monthly Rental.....	146.00	
31 68 13 00-0205	EA	Air Powered Programmable Feed Grout Pump Monthly Rental.....	1,228.17	
31 68 13 00-0206	EA	Air Powered, Piston Drive Grout Pump Monthly Rental.....	2,144.27	

31	31	Earthwork
	31 60	Special Foundations and Load-bearing Elements
	31 68	Foundation Anchors



MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
31 68 13 00-0207		Rock Bolt Testing (31 68 13)			
31 68 13 00-0208	EA	Rock Bolt Test, Low To Medium Capacity LF >100 Bolts Need Testing.....		581.45	

END OF SECTION 31



Exterior Improvements		32
Operation and Maintenance of Exterior Improvements		32 01
Paving Cleaning		32 01 11

32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 Exterior Improvements

32 01 Operation and Maintenance of Exterior Improvements ⁽³²⁾

32 01 11 Paving Cleaning ^(32 01)

32 01 11 53 Paint Removal from Paving ^(32 01 11)

32 01 11 53-0001 Remove Pavement Markings ^(32 01 11 53)

Note: Includes stripe removal by grinding, vacuuming of removed striped area and containment of debris.

32 01 11 53-0002	LF	Removal Of 4" Wide Painted Or Epoxy Pavement Striping	2.14
		For Up To 250, Add	1.07
		For >250 To 1,000, Add	0.54
		For >5,000 To 10,000, Deduct	-0.32
		For >10,000 To 25,000, Deduct	-0.54
		For >25,000 To 50,000, Deduct	-0.75
		For >50,000, Deduct	-0.86
32 01 11 53-0003	LF	Removal Of 6" Wide Painted Or Epoxy Pavement Striping	2.57
		For Up To 250, Add	1.29
		For >250 To 1,000, Add	0.64
		For >5,000 To 10,000, Deduct	-0.39
		For >10,000 To 25,000, Deduct	-0.64
		For >25,000 To 50,000, Deduct	-0.90
		For >50,000, Deduct	-1.03
32 01 11 53-0004	LF	Removal Of 8" Wide Painted Or Epoxy Pavement Striping	3.07
		For Up To 250, Add	1.54
		For >250 To 1,000, Add	0.77
		For >5,000 To 10,000, Deduct	-0.46
		For >10,000 To 25,000, Deduct	-0.77
		For >25,000 To 50,000, Deduct	-1.07
		For >50,000, Deduct	-1.23
32 01 11 53-0005	LF	Removal Of 12" Wide Painted Or Epoxy Pavement Striping	3.68
		For Up To 250, Add	1.84
		For >250 To 1,000, Add	0.92
		For >5,000 To 10,000, Deduct	-0.55
		For >10,000 To 25,000, Deduct	-0.92
		For >25,000 To 50,000, Deduct	-1.29
		For >50,000, Deduct	-1.47
32 01 11 53-0006	SF	Removal Of Painted Or Epoxy Pavement Marking, Letters Or Symbols	3.68
		For Up To 250, Add	1.84
		For >250 To 1,000, Add	0.92
		For >5,000 To 10,000, Deduct	-0.55
		For >10,000 To 25,000, Deduct	-0.92
		For >25,000 To 50,000, Deduct	-1.29
		For >50,000, Deduct	-1.47
32 01 11 53-0007	LF	Removal Of 4" Wide Thermoplastic Pavement Striping	2.75
		For Up To 250, Add	1.38
		For >250 To 1,000, Add	0.69
		For >5,000 To 10,000, Deduct	-0.41
		For >10,000 To 25,000, Deduct	-0.69
		For >25,000 To 50,000, Deduct	-0.96
		For >50,000, Deduct	-1.10
32 01 11 53-0008	LF	Removal Of 6" Wide Thermoplastic Pavement Striping	3.23
		For Up To 250, Add	1.62
		For >250 To 1,000, Add	0.81
		For >5,000 To 10,000, Deduct	-0.48
		For >10,000 To 25,000, Deduct	-0.81
		For >25,000 To 50,000, Deduct	-1.13
		For >50,000, Deduct	-1.29
32 01 11 53-0009	LF	Removal Of 8" Wide Thermoplastic Pavement Striping	3.91
		For Up To 250, Add	1.96
		For >250 To 1,000, Add	0.98
		For >5,000 To 10,000, Deduct	-0.59
		For >10,000 To 25,000, Deduct	-0.98
		For >25,000 To 50,000, Deduct	-1.37
		For >50,000, Deduct	-1.56
32 01 11 53-0010	LF	Removal Of 12" Wide Thermoplastic Pavement Striping	4.68
		For Up To 250, Add	2.34
		For >250 To 1,000, Add	1.17
		For >5,000 To 10,000, Deduct	-0.70
		For >10,000 To 25,000, Deduct	-1.17
		For >25,000 To 50,000, Deduct	-1.64
		For >50,000, Deduct	-1.87
32 01 11 53-0011	SF	Removal Of Thermoplastic Pavement Marking, Letters Or Symbols	4.68
		For Up To 250, Add	2.34
		For >250 To 1,000, Add	1.17
		For >5,000 To 10,000, Deduct	-0.70
		For >10,000 To 25,000, Deduct	-1.17
		For >25,000 To 50,000, Deduct	-1.64
		For >50,000, Deduct	-1.87

32 01 13 Flexible Paving Surface Treatment ^(32 01)

32 Exterior Improvements**32 01 Operation and Maintenance of Exterior Improvements****32 01 13 Flexible Paving Surface Treatment**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 01 13 61 Slurry Seal (Latex Modified) (32 01 13)**32 01 13 61-0001 Asphalt Seal Coating, For Roads And Parking Lot** (32 01 13 61)

Note: Includes sweeping and cleaning of area.

32 01 13 61-0002	EA	Asphalt Seal Coating Minimum Charge	869.15	
		Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
32 01 13 61-0003	SY	Up To 500 SY, Type II Slurry Seal Asphalt Coating, Per Coat.....	4.69	
		Note: 1/4" thick, 14 to 18 Lbs/SY.		
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.33	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.39	
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.49	
		For Each 0.5% Of Latex Addition, Add	0.36	
32 01 13 61-0004	SY	>500 To 1,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat.....	4.39	
		Note: 1/4" thick, 14 to 18 Lbs/SY.		
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.32	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.38	
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.48	
		For Each 0.5% Of Latex Addition, Add	0.36	
32 01 13 61-0005	SY	>1,000 To 5,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat	4.16	
		Note: 1/4" thick, 14 to 18 Lbs/SY.		
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.30	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.36	
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.46	
		For Each 0.5% Of Latex Addition, Add	0.36	
32 01 13 61-0006	SY	>5,000 To 20,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat	3.93	
		Note: 1/4" thick, 14 to 18 Lbs/SY.		
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.29	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.35	
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.45	
		For Each 0.5% Of Latex Addition, Add	0.36	
32 01 13 61-0007	SY	>20,000 To 50,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat	3.73	
		Note: 1/4" thick, 14 to 18 Lbs/SY.		
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.28	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.34	
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.44	
		For Each 0.5% Of Latex Addition, Add	0.36	
32 01 13 61-0008	SY	>50,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat	3.55	
		Note: 1/4" thick, 14 to 18 Lbs/SY.		
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.27	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.33	
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.43	
		For Each 0.5% Of Latex Addition, Add	0.36	
32 01 13 61-0009	SY	Up To 500 SY, Type III Slurry Seal Asphalt Coating, Per Coat.....	5.88	
		Note: 3/8" thick, 25 to 30 Lbs/SY.		
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.34	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.40	
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.50	
		For Each 0.5% Of Latex Addition, Add	0.58	
32 01 13 61-0010	SY	>500 To 1,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat	5.56	
		Note: 3/8" thick, 25 to 30 Lbs/SY.		
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.32	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.38	
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.48	
		For Each 0.5% Of Latex Addition, Add	0.58	
32 01 13 61-0011	SY	>1,000 To 5,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat	5.31	
		Note: 3/8" thick, 25 to 30 Lbs/SY.		
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.31	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.37	
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.47	
		For Each 0.5% Of Latex Addition, Add	0.58	
32 01 13 61-0012	SY	>5,000 To 20,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat	5.08	
		Note: 3/8" thick, 25 to 30 Lbs/SY.		
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.30	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.36	
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.46	
		For Each 0.5% Of Latex Addition, Add	0.58	
32 01 13 61-0013	SY	>20,000 To 50,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat	4.86	
		Note: 3/8" thick, 25 to 30 Lbs/SY.		
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.29	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.35	
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.45	
		For Each 0.5% Of Latex Addition, Add	0.58	
32 01 13 61-0014	SY	>50,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat	4.67	
		Note: 3/8" thick, 25 to 30 Lbs/SY.		
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.28	
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.34	
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.44	
		For Each 0.5% Of Latex Addition, Add	0.58	

32 01 13 62 Asphalt Surface Treatment (32 01 13)**32 01 13 62-0001 Polymer-Modified, Microsurfacing Emulsion (MSE Microsurfacing)** (32 01 13 62)

Note: Use a blend of emulsified quick-set polymer-modified emulsion asphalt and latex-based polymer. Includes sweeping and cleaning of area.



Exterior Improvements		32
Operation and Maintenance of Exterior Improvements		32 01
Flexible Paving Surface Treatment		32 01 13

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 13 62-0002	SY		Up To 200 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	10.44	
32 01 13 62-0003	SY		Up To 500 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	9.94	
32 01 13 62-0004	SY		>500 To 1,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	9.50	
32 01 13 62-0005	SY		>1,000 To 5,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	9.12	
32 01 13 62-0006	SY		>5,000 To 10,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	8.78	
32 01 13 62-0007	SY		>10,000 To 20,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	8.49	
32 01 13 62-0008	SY		>20,000 To 50,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	8.28	
32 01 13 62-0009	SY		>50,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE)	8.16	

32 01 16 Flexible Paving Rehabilitation (32 01)**32 01 16 71 Cold Milling Asphalt Pavement** (32 01 16)**32 01 16 71-0001 Removal Of Asphalt Surface Course** (32 01 16 71)

Note: Includes direct loading into truck.

32 01 16 71-0002 Production Cold Milling Of Roads And Parking Areas (32 01 16 71-0001)

Note: For removal of entire lanes of roads or parking areas. Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0029 for hauling.

32 01 16 71-0003	SY	Up To 3" Depth, Production Cold Milling Of Asphalt	4.48
		For Up To 2,500, Add	3.36
		For >2,500 To 5,000, Add	1.12
		For >10,000 To 25,000, Deduct	-0.45
		For >25,000, Deduct	-0.67
32 01 16 71-0004	SY	>3" To 6" Depth, Production Cold Milling Of Asphalt	5.98
		For Up To 2,500, Add	4.49
		For >2,500 To 5,000, Add	1.50
		For >10,000 To 25,000, Deduct	-0.60
		For >25,000, Deduct	-0.90
32 01 16 71-0005	SY	>6" To 12" Depth, Production Cold Milling Of Asphalt	7.95
		For Up To 2,500, Add	5.96
		For >2,500 To 5,000, Add	1.99
		For >10,000 To 25,000, Deduct	-0.80
		For >25,000, Deduct	-1.19

32 01 16 71-0006 Limited Production Cold Milling (32 01 16 71-0001)

Note: For cross sections of roadways, trenching, partial shoulders, and other small or narrow areas. Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0029 for hauling.

32 01 16 71-0007	SY	Up To 3" Depth, Limited Cold Milling Of Asphalt	28.33
		For >100 To 1,000, Deduct	-14.17
		For >1,000, Deduct	-21.25
32 01 16 71-0008	SY	>3" To 6" Depth, Limited Cold Milling Of Asphalt	37.52
		For >100 To 1,000, Deduct	-18.76
		For >1,000, Deduct	-28.14
32 01 16 71-0009	SY	>6" To 12" Depth, Limited Cold Milling Of Asphalt	49.97
		For >100 To 1,000, Deduct	-24.99
		For >1,000, Deduct	-37.48

32 01 16 71-0010 Grind, Leave In-Place Asphalt Grindings (32 01 16 71)

Note: For use as subbase material, includes spreading and rolling.

32 01 16 71-0011	SY	Grind, Leave In-Place As Subbase Course, 6-9" Depth	7.48

32 01 16 71-0012 Wedge Grinding Cold Milling (32 01 16 71)

Note: Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes water truck. Excludes mobilization, sweeping and cleaning, hauling and disposal. See CSI section 01 74 16 00-0001 for sweeping and cleaning.

32 01 16 71-0013	LF	5' Wedge Gringing/Cold Milling Of Asphalt Up To 3" Depth	7.87
32 01 16 71-0014	LF	10' Wedge Gringing/Cold Milling Of Asphalt Up To 3" Depth	15.74

32 01 16 71-0015 Cutback Ramp (32 01 16 71)

32 01 16 71-0016	LF	1" Differential, 5' Length, Cutback Ramp	12.66
32 01 16 71-0017	LF	1-1/2" Differential, 5' Length, Cutback Ramp	15.49
32 01 16 71-0018	LF	2" Differential, 5' Length, Cutback Ramp	18.07

32 01 16 73 In Place Cold Reused Asphalt Paving (32 01 16)**32 01 16 73-0001 Cold-In-Place-Partial Depth Recycling Process With Foam Asphalt** (32 01 16 73)

Note: Includes milling between 3"-6" of existing AC surface, computerized metered injection of liquid asphalt, cement, and water mix together as binder with milled material, spread and place with paver, follow by vibratory steel drum roller, Cat CB534D or equivalent, then follow by rubber tired roller, Hypac C560A or equivalent. The Contractor will provide all the necessary engineering, preconstruction soil analysis, stamped mix design, in-place compaction testing of recycled material and any other QC/QA during construction. The recycled material (from milled surface mixed with liquid asphalt, cement, and water) shall meet Class II AB (3/4" max.) gradation and shall compact at 96% relative compaction or higher. The Contractor's process shall be capable of producing between 450-500 tons per hour of recycled, in-place material. The Contractor shall warranty their work for a period of two years. Excludes traffic control, grading, utilities adjustment and wearing course of either Chip Seal or HMA overlay of the finished surface.

32 Exterior Improvements**32 01 Operation and Maintenance of Exterior Improvements****32 01 16 Flexible Paving Rehabilitation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 01 16 73-0002	SF	Up To 30,000 SF Cold In Place Recycling Process With Foam Asphalt.....	4.32
32 01 16 73-0003	SF	>30,000 To 42,000 SF Cold In Place Recycling Process With Foam Asphalt.....	4.03
32 01 16 73-0004	SF	>42,000 To 71,000 SF Cold In Place Recycling Process With Foam Asphalt.....	3.37
32 01 16 73-0005	SF	>71,000 To 130,000 SF Cold In Place Recycling Process With Foam Asphalt.....	2.85

32 01 16 74 In Place Hot Reused Asphalt Paving (32 01 16)**32 01 16 74-0001 Rejuvenate, Respread Asphalt Pavement (32 01 16 74)**

Note: Includes direct loading into truck.

32 01 16 74-0002	SY	Removal, Rejuvenation, And Respreading Of Asphalt Grindings To 1/2" Deep.....	12.26
32 01 16 74-0003	SY	Removal, Rejuvenation, And Respreading Of Asphalt Grindings To 1/2" Deep, Previously Sealed Cold Tar.....	14.38
32 01 16 74-0004	TON	Removal, Rejuvenation, And Respreading Of Asphalt Grindings.....	193.79

32 01 16 74-0005 Reclamation, Pulverize And Blending With Existing (32 01 16 74)

Note: Includes direct loading into truck.

32 01 16 74-0006	SY	Up To 2" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	15.26
32 01 16 74-0007	SY	Up To 2" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	7.63
32 01 16 74-0008	SY	Up To 2" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	3.82
32 01 16 74-0009	SY	Up To 2" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	3.61
32 01 16 74-0010	SY	>2" To 3" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	4.16
32 01 16 74-0011	SY	>2" To 3" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	16.65
32 01 16 74-0012	SY	>2" To 3" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	8.32
32 01 16 74-0013	SY	>2" To 3" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	3.93
32 01 16 74-0014	SY	>3" To 4" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	18.32
32 01 16 74-0015	SY	>3" To 4" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	9.16
32 01 16 74-0016	SY	>3" To 4" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	4.58
32 01 16 74-0017	SY	>3" To 4" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	4.23
32 01 16 74-0018	SY	>4" To 8" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	19.99
32 01 16 74-0019	SY	>4" To 8" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	9.99
32 01 16 74-0020	SY	>4" To 8" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	5.00
32 01 16 74-0021	SY	>4" To 8" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	4.66
32 01 16 74-0022	EA	Mobilization And Demobilization For Reclamation, Pulverizing And Blending Crew.....	1,717.22

32 01 17 Flexible Paving Repair (32 01)

See CSI section 32 12 16 00-0000 for large area resurfacing.

32 01 17 61 Sealing Cracks in Asphalt Paving (32 01 17)

Note: Includes removing loose materials and cleaning.

32 01 17 61-0001 Hot-Applied, Pourable, Self-Adhesive Asphalt Binder Compounded With Standard Weight Aggregate Longitudinal Crack And Sealing Repair (32 01 17 61)

Note: Includes removing loose materials and cleaning.

32 01 17 61-0002	LF	Up To 200 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	1.77
Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.			
		For 3/4" x 1/2" Fill, Add	0.52
		For 1" x 1/2" Fill, Add	0.98
		For Backer Rod, Add	1.08
32 01 17 61-0003	LF	>200 To 500 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	1.45
Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.			
		For 3/4" x 1/2" Fill, Add	0.43
		For 1" x 1/2" Fill, Add	0.82
		For Backer Rod, Add	0.97
32 01 17 61-0004	LF	>500 To 2,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	1.15
Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.			
		For 3/4" x 1/2" Fill, Add	0.35
		For 1" x 1/2" Fill, Add	0.66
		For Backer Rod, Add	0.86
32 01 17 61-0005	LF	>2,000 To 5,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	1.00
Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.			
		For 3/4" x 1/2" Fill, Add	0.31
		For 1" x 1/2" Fill, Add	0.59
		For Backer Rod, Add	0.81



Exterior Improvements		32
Operation and Maintenance of Exterior Improvements		32 01
Flexible Paving Repair		32 01 17

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 17 61-0006	LF		>5,000 To 10,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....0.88 Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack. For 3/4" x 1/2" Fill, Add 0.27 For 1" x 1/2" Fill, Add 0.51 For Backer Rod, Add 0.75		
32 01 17 61-0007	LF		>10,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....0.82 Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack. For 3/4" x 1/2" Fill, Add 0.25 For 1" x 1/2" Fill, Add 0.48 For Backer Rod, Add 0.72		
32 01 17 61-0008	LF		Up To 200 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....2.99		
32 01 17 61-0009	LF		>200 To 500 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler 2.41		
32 01 17 61-0010	LF		>500 To 2,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler 1.88		
32 01 17 61-0011	LF		>2,000 To 5,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler 1.65		
32 01 17 61-0012	LF		>5,000 To 10,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....1.48		
32 01 17 61-0013	LF		>10,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....1.38		
32 01 17 61-0014	LF		For Routing And Cleaning Of Crack, Add Per 1/2" Depth.....0.54		

32 01 17 63 Flexible Pavement Repair (32 01 17)**32 01 17 63-0001 Temporary Pot Hole Repair (32 01 17 63)**

Note: Includes removal of loose material and moisture, bonding agent, compaction, safety cones and hauling up to 15 miles. Excludes signage, barricades, flagmen, field survey or marking. See CSI section 01 74 19 00-0029 for hauling greater than 15 miles.			
32 01 17 63-0002	EA	Temporary Pot Hole Repairs With Cold Mix Modified, Up To 3 Tons	1,666.30
32 01 17 63-0003	TON	Temporary Pot Hole Repairs With Cold Mix Modified.....	505.58
Note: Use for each ton over 3 tons.			
32 01 17 63-0004	EA	Temporary Pot Hole Repairs With Cold Mix, Up To 3 Tons.....	1,586.32
32 01 17 63-0005	TON	Temporary Pot Hole Repairs With Cold Mix	478.92
Note: Use for each ton over 3 tons.			
32 01 17 63-0006	EA	Temporary Pot Hole Repairs With Hot Mix Modified, Up To 3 Tons	1,546.33
32 01 17 63-0007	TON	Temporary Pot Hole Repairs With Hot Mix Modified.....	465.60
Note: Use for each ton over 3 tons.			
32 01 17 63-0008	EA	Temporary Pot Hole Repairs With Hot Mix, Up To 3 Tons	1,506.35
32 01 17 63-0009	TON	Temporary Pot Hole Repairs With Hot Mix	452.27
Note: Use for each ton over 3 tons.			

32 01 17 63-0010 Permanent Pot Hole Repair (32 01 17 63)

Note: Includes removal of loose material and moisture, saw cutting, chipping, squaring off, bonding agent, compaction and hauling up to 15 miles Tasks do not include signage, barricades, flagmen, field survey or marking. See CSI section 01 74 19 00-0029 for hauling greater than 15 miles.			
32 01 17 63-0011	EA	Permanent Pot Hole Repairs With Cold Mix, Up To 3 Tons	1,767.01
32 01 17 63-0012	TON	Permanent Pot Hole Repairs With Cold Mix	574.73
Note: Use for each ton over 3 tons.			
32 01 17 63-0013	EA	Permanent Pot Hole Repairs With Hot Mix Modified, Up To 3 Tons.....	1,727.02
32 01 17 63-0014	TON	Permanent Pot Hole Repairs With Hot Mix Modified	561.41
Note: Use for each ton over 3 tons.			
32 01 17 63-0015	EA	Permanent Pot Hole Repairs With Hot Mix, Up To 3 Tons	1,687.04
32 01 17 63-0016	TON	Permanent Pot Hole Repairs With Hot Mix	548.08
Note: Use for each ton over 3 tons.			

32 01 17 63-0017 Asphalt Placement For Small Repairs (32 01 17 63)

Note: This section is used for placing up to 100 tons of asphalt after a small area of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc. Includes mobilization of paving equipment such as a roller, placing the asphalt, compaction and hauling up to 15 miles. Excludes saw cutting, demolition of existing pavement, and new subbase material. Use approximately 0.055 tons per square yard per inch of depth. See CSI section 02 41 19 13-0001 for saw cutting, 32 12 16 13-0000 for areas requiring more than 100 tons.			
32 01 17 63-0018	EA	Asphalt Placement For Small Repair Areas, Cold Mix Modified, Up To 3 Tons.....	2,361.94
Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.			
32 01 17 63-0019	TON	Asphalt Placement For Small Repair Areas, Cold Mix Modified	334.41
Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.			
32 01 17 63-0020	EA	Asphalt Placement For Small Repair Areas, Cold Mix, Up To 3 Tons	2,281.96
Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.			
32 01 17 63-0021	TON	Asphalt Placement For Small Repair Areas, Cold Mix.....	307.75
Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.			
32 01 17 63-0022	EA	Asphalt Placement For Small Repair Areas, Hot Mix Modified, Up To 3 Tons	2,241.97
Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.			
32 01 17 63-0023	TON	Asphalt Placement For Small Repair Areas, Hot Mix Modified.....	294.43
Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.			
32 01 17 63-0024	EA	Asphalt Placement For Small Repair Areas, Hot Mix, Up To 3 Tons	2,201.99
Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.			
32 01 17 63-0025	TON	Asphalt Placement For Small Repair Areas, Hot Mix.....	281.10
Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.			

32 Exterior Improvements**32 01 Operation and Maintenance of Exterior Improvements****32 01 17 Flexible Paving Repair**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 01 17 63-0026	Grind Asphalt (32 01 17 63)	
32 01 17 63-0027	SY Grinding Asphalt To Level Bump Or Raised Area.....	21.45

32 01 26 Rigid Paving Rehabilitation (32 01)**32 01 26 71 Grooving of Concrete Paving (32 01 26)**

32 01 26 71-0001	Roadway Grooving (32 01 26 71)	
32 01 26 71-0002	EA First 500 SY Of Pavement Grooving, Concrete, Longitudinal.....	3,915.26
32 01 26 71-0003	SY Each SY Over First 500 SY Of Pavement Grooving, Concrete, Longitudinal.....	3.63
32 01 26 71-0004	EA First 500 SY Of Pavement Grooving, Concrete, Traverse.....	4,361.74
32 01 26 71-0005	SY Each SY Over First 500 SY Of Pavement Grooving, Concrete, Traverse.....	4.73

32 01 26 71-0006	Rumble Strips (32 01 26 71)	
32 01 26 71-0007	EA First 5280 LF Of MIARDS, Rumble Strips, Asphalt.....	4,322.00
32 01 26 71-0008	LF Each LF Over First 5280 LF Of MIARDS, Rumble Strips, Asphalt.....	0.79
32 01 26 71-0009	EA First 2000 LF Of MIARDS, Rumble Strips, Concrete.....	4,816.47
32 01 26 71-0010	LF Each LF Over First 2000 LF Of MIARDS, Rumble Strips, Concrete.....	0.88

32 01 26 73 Milling Of Concrete Paving (32 01 26)

32 01 26 73-0001	Removal Of Concrete (32 01 26 73)	
Note: Includes direct loading into truck.		
32 01 26 73-0002	Production Milling Of Roads And Parking Areas (32 01 26 73-0001)	
Note: For removal of entire lanes of roads or parking areas. Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0029 for hauling.		
32 01 26 73-0003	SY Production Milling Of Concrete Per Inch.....	6.78
32 01 26 73-0004	Limited Production Milling (32 01 26 73-0001)	
Note: For cross sections of roadways, trenching, partial shoulders, and other small or narrow areas. Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0029 for hauling.		
32 01 26 73-0005	SY Limited Production Milling Of Concrete Per Inch.....	42.59

32 01 29 Rigid Paving Repair (32 01)**32 01 29 61 Partial Depth Patching of Rigid Paving (32 01 29)**

32 01 29 61-0001	Hot Applied Flexible Concrete Repair (32 01 29 61)	
Note: Excludes saw cutting (where required), flagmen.		
32 01 29 61-0002	EA Hot Applied Flexible Concrete Repair Minimum Charge.....	1,147.83
Note: For projects where the total Hot Applied Flexible Concrete Repair In Asphaltcharge is less than the minimum charge, use task "Minimum Charge For Hot Applied Flexible Concrete Repair" exclusively. Task "Minimum Charge For Hot Applied Flexible Concrete Repair" should not be used in conjunction with any other tasks in this section.		
32 01 29 61-0003	SF Up To 2" Depth, Hot Applied Flexible Concrete Repair.....	65.87
For >25 SF Quantity, Deduct		
		-6.59
32 01 29 61-0004	SF >2" To 4" Depth, Hot Applied Flexible Concrete Repair.....	124.12
For >25 SF Quantity, Deduct		
		-12.41
32 01 29 61-0005	SF >4" To 6" Depth, Hot Applied Flexible Concrete Repair.....	181.86
For >25 SF Quantity, Deduct		
		-18.19
32 01 29 61-0006	SF >6" To 8" Depth, Hot Applied Flexible Concrete Repair.....	239.59
For >25 SF Quantity, Deduct		
		-23.96
32 01 29 61-0007	SF >8" To 10" Depth, Hot Applied Flexible Concrete Repair.....	297.32
For >25 SF Quantity, Deduct		
		-29.73
32 01 29 61-0008	CF >10" Depth, Hot Applied Flexible Concrete Repair.....	354.56

32 01 29 61-0009 Cold Applied Flexible Concrete Repair (32 01 29 61)

32 01 29 61-0010	SF 1/8" To 1/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with water).....	6.30
32 01 29 61-0011	SF 1/4" To 1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with water).....	9.15
32 01 29 61-0012	SF 1/2" To 3/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with water).....	12.09
32 01 29 61-0013	SF 3/4" To 1" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with water).....	15.14
32 01 29 61-0014	SF 1" To 1-1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with water).....	21.65
32 01 29 61-0015	SF 1/8" To 1/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with SikaLatex R).....	6.38
32 01 29 61-0016	SF 1/4" To 1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with SikaLatex R).....	9.23
32 01 29 61-0017	SF 1/2" To 3/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with SikaLatex R).....	12.18
32 01 29 61-0018	SF 3/4" To 1" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with SikaLatex R).....	15.23
32 01 29 61-0019	SF 1" To 1-1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with SikaLatex R).....	21.73
32 01 29 61-0020	SF 1/8" To 1/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with diluted SikaLatex R).....	6.34
32 01 29 61-0021	SF 1/4" To 1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with diluted SikaLatex R).....	9.19
32 01 29 61-0022	SF 1/2" To 3/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with diluted SikaLatex R).....	12.14
32 01 29 61-0023	SF 3/4" To 1" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with diluted SikaLatex R).....	15.18
32 01 29 61-0024	SF 1" To 1-1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with diluted SikaLatex R).....	21.69



Exterior Improvements		32
Operation and Maintenance of Exterior Improvements		32 01
Rigid Paving Repair		32 01 29

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

32 01 90 Operation and Maintenance of Planting (32 01)

Note: These tasks are to be used as requested by the owner to maintain existing conditions.

32 01 90 13 Fertilizing (32 01 90)

32 01 90 13-0001	MSF	Fertilizer - 2 LB Of Nitrogen/MSF (Granular)	13.39
32 01 90 13-0002	MSF	Fertilizer - 2 LB Of Nitrogen/MSF (Liquid)	10.08
32 01 90 13-0003	MSF	Fertilizer - 0.5 LB Of Nitrogen/MSF (Granular)	10.96
32 01 90 13-0004	MSF	Fertilizer - 0.5 LB Of Nitrogen/MSF (Liquid)	9.08

32 01 90 19 Mowing (32 01 90)

32 01 90 19-0001	ACR	Vegetation Cutting By Bush Hog	191.89
Note: Includes normal debris removal, cutting, and trimming.			
For <1 Acre, Add			47.97
32 01 90 19-0002	MSF	Mowing Vegetation With Riding Mower, >20,000 To 45,000 SF	6.57
32 01 90 19-0003	MSF	Mowing Vegetation With Riding Mower, >45,000 SF	5.10
32 01 90 19-0004	MSF	Clear Vegetation With Weed Trimmer, Up To 1,000 SF	23.30
For Work On Slopes >2:1, Add			5.83
For Clearing Light Brush, Add			3.50
32 01 90 19-0005	MSF	Clear Vegetation With Weed Trimmer, >1,000 SF	19.58
For Work On Slopes >2:1, Add			4.90
For Clearing Light Brush, Add			2.94
32 01 90 19-0006	MSF	Blow Or Vacuum Dispersed Non-Native Seed After Bulk Of Biomass Removed	19.39

32 01 90 23 Pruning (32 01 90)

32 01 90 23-0001 Tree Pruning (32 01 90 23)

Note: Types of pruning for mature trees (these standards are established by the ISA - International Society of Arboriculture). Includes loading onto truck or dumpster.

32 01 90 23-0002 Tree Pruning; Crown Cleaning (32 01 90 23-0001)

Note: Crown cleaning or cleaning out is the removal of dead, dying, diseased, crowded, weakly attached, and low-vigor branches and waterspouts from a tree crown.

32 01 90 23-0003	EA	1-1/2" Caliper, Tree Pruning (Crown Cleaning), By Hand	30.72
32 01 90 23-0004	EA	2" Caliper, Tree Pruning (Crown Cleaning), By Hand	35.11
32 01 90 23-0005	EA	2-1/2" Caliper, Tree Pruning (Crown Cleaning), By Hand	39.49
32 01 90 23-0006	EA	3" Caliper, Tree Pruning (Crown Cleaning), By Hand	43.89
32 01 90 23-0007	EA	4" Caliper, Tree Pruning (Crown Cleaning), By Hand	66.70
32 01 90 23-0008	EA	4" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	111.11
32 01 90 23-0009	EA	6" Caliper, Tree Pruning (Crown Cleaning), By Hand	116.72
32 01 90 23-0010	EA	6" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	211.61
32 01 90 23-0011	EA	9" Caliper, Tree Pruning (Crown Cleaning), By Hand	186.91
32 01 90 23-0012	EA	9" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	338.51
32 01 90 23-0013	EA	12" Caliper, Tree Pruning (Crown Cleaning), By Hand	215.98
32 01 90 23-0014	EA	12" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	391.46
32 01 90 23-0015	EA	18" Caliper, Tree Pruning (Crown Cleaning), By Hand	251.07
32 01 90 23-0016	EA	18" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	454.95
32 01 90 23-0017	EA	24" Caliper, Tree Pruning (Crown Cleaning), By Hand	305.62
32 01 90 23-0018	EA	24" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	550.26
32 01 90 23-0019	EA	30" Caliper, Tree Pruning (Crown Cleaning), By Hand	379.64
32 01 90 23-0020	EA	30" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	693.50
32 01 90 23-0021	EA	36" Caliper, Tree Pruning (Crown Cleaning), By Hand	519.97
32 01 90 23-0022	EA	36" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	939.92
32 01 90 23-0023	EA	48" Caliper, Tree Pruning (Crown Cleaning), By Hand	824.92
32 01 90 23-0024	EA	48" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment	1,511.54

32 01 90 23-0025 Tree Pruning; Crown Thinning (32 01 90 23-0001)

Note: Crown thinning includes crown cleaning and the selective removal of branches to increase light penetration and air movement into the crown. Increased light and air stimulates and maintains interior foliage, which in turn improves branch taper and strength. Thinning reduces the wind-sail effect of the crown and the weight of the heavy limbs. Thinning the crown can emphasize the structural beauty of the trunk and branches as well as improve the growth of plants beneath the tree by increasing light penetration. When thinning the crown of mature trees, seldom should more than one-third of the live foliage be removed. At least one-half of the foliage should be on branches that arise in the lower two-thirds of the trees. Likewise, when thinning laterals from a limb, an effort should be made to retain inner lateral branches and leave the same distribution of foliage along the branch. Trees and branches so pruned will have stress more evenly distributed throughout the tree or along a branch.

32 01 90 23-0026	EA	1-1/2" Caliper, Tree Pruning (Crown Thinning), By Hand	37.66
32 01 90 23-0027	EA	2" Caliper, Tree Pruning (Crown Thinning), By Hand	43.01
32 01 90 23-0028	EA	2-1/2" Caliper, Tree Pruning (Crown Thinning), By Hand	48.37
32 01 90 23-0029	EA	3" Caliper, Tree Pruning (Crown Thinning), By Hand	53.80
32 01 90 23-0030	EA	4" Caliper, Tree Pruning (Crown Thinning), By Hand	81.72
32 01 90 23-0031	EA	4" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	136.07
32 01 90 23-0032	EA	6" Caliper, Tree Pruning (Crown Thinning), By Hand	142.98
32 01 90 23-0033	EA	6" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	259.23
32 01 90 23-0034	EA	9" Caliper, Tree Pruning (Crown Thinning), By Hand	229.00
32 01 90 23-0035	EA	9" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	414.66
32 01 90 23-0036	EA	12" Caliper, Tree Pruning (Crown Thinning), By Hand	264.54
32 01 90 23-0037	EA	12" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	479.52
32 01 90 23-0038	EA	18" Caliper, Tree Pruning (Crown Thinning), By Hand	307.56

32 Exterior Improvements**32 01 Operation and Maintenance of Exterior Improvements****32 01 90 Operation and Maintenance of Planting**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 01 90 23-0039	EA	18" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	557.29	
32 01 90 23-0040	EA	24" Caliper, Tree Pruning (Crown Thinning), By Hand	374.35	
32 01 90 23-0041	EA	24" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	674.10	
32 01 90 23-0042	EA	30" Caliper, Tree Pruning (Crown Thinning), By Hand	465.01	
32 01 90 23-0043	EA	30" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	849.53	
32 01 90 23-0044	EA	36" Caliper, Tree Pruning (Crown Thinning), By Hand	636.96	
32 01 90 23-0045	EA	36" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	1,151.40	
32 01 90 23-0046	EA	48" Caliper, Tree Pruning (Crown Thinning), By Hand	1,010.53	
32 01 90 23-0047	EA	48" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	1,851.64	

32 01 90 23-0048**Tree Pruning; Crown Raising** (32 01 90 23-0001)

Note: Crown raising removes the lower branches of a tree in order to provide clearance for buildings, vehicles, pedestrians, and vistas. It is important that a tree have at least one-half of its foliage on branches that originate in the lower two-thirds of its trunk to ensure a well-formed, tapered structure and to uniformly distribute stress within a tree. When pruning for view, it is preferable to develop "windows" through the foliage of the tree, rather than to severely raise or reduce the crown.

32 01 90 23-0049	EA	1-1/2" Caliper, Tree Pruning (Crown Raising), By Hand	41.52	
32 01 90 23-0050	EA	2" Caliper, Tree Pruning (Crown Raising), By Hand	47.40	
32 01 90 23-0051	EA	2-1/2" Caliper, Tree Pruning (Crown Raising), By Hand	53.37	
32 01 90 23-0052	EA	3" Caliper, Tree Pruning (Crown Raising), By Hand	59.24	
32 01 90 23-0053	EA	4" Caliper, Tree Pruning (Crown Raising), By Hand	90.05	
32 01 90 23-0054	EA	4" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	150.04	
32 01 90 23-0055	EA	6" Caliper, Tree Pruning (Crown Raising), By Hand	157.55	
32 01 90 23-0056	EA	6" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	285.68	
32 01 90 23-0057	EA	9" Caliper, Tree Pruning (Crown Raising), By Hand	252.34	
32 01 90 23-0058	EA	9" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	456.99	
32 01 90 23-0059	EA	12" Caliper, Tree Pruning (Crown Raising), By Hand	291.58	
32 01 90 23-0060	EA	12" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	528.51	
32 01 90 23-0061	EA	18" Caliper, Tree Pruning (Crown Raising), By Hand	338.98	
32 01 90 23-0062	EA	18" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	614.21	
32 01 90 23-0063	EA	24" Caliper, Tree Pruning (Crown Raising), By Hand	412.62	
32 01 90 23-0064	EA	24" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	742.88	
32 01 90 23-0065	EA	30" Caliper, Tree Pruning (Crown Raising), By Hand	512.50	
32 01 90 23-0066	EA	30" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	936.19	
32 01 90 23-0067	EA	36" Caliper, Tree Pruning (Crown Raising), By Hand	702.00	
32 01 90 23-0068	EA	36" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	1,268.85	
32 01 90 23-0069	EA	48" Caliper, Tree Pruning (Crown Raising), By Hand	1,113.66	
32 01 90 23-0070	EA	48" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	2,040.61	

32 01 90 23-0071**Tree Pruning; Crown Reduction** (32 01 90 23-0001)

Note: Crown reduction is used to reduce the height and/or spread of a tree. Thinning cuts are most effective in maintaining the structural integrity and natural form of a tree and in delaying the time when it will need to be pruned again. The lateral to which a branch or trunk is cut should be at least one-half the diameter of the cut being made.

32 01 90 23-0072	EA	1-1/2" Caliper, Tree Pruning (Crown Reduction), By Hand	44.59	
32 01 90 23-0073	EA	2" Caliper, Tree Pruning (Crown Reduction), By Hand	50.90	
32 01 90 23-0074	EA	2-1/2" Caliper, Tree Pruning (Crown Reduction), By Hand	57.31	
32 01 90 23-0075	EA	3" Caliper, Tree Pruning (Crown Reduction), By Hand	63.64	
32 01 90 23-0076	EA	4" Caliper, Tree Pruning (Crown Reduction), By Hand	96.72	
32 01 90 23-0077	EA	4" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	161.14	
32 01 90 23-0078	EA	6" Caliper, Tree Pruning (Crown Reduction), By Hand	169.22	
32 01 90 23-0079	EA	6" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	306.84	
32 01 90 23-0080	EA	9" Caliper, Tree Pruning (Crown Reduction), By Hand	271.04	
32 01 90 23-0081	EA	9" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	490.84	
32 01 90 23-0082	EA	12" Caliper, Tree Pruning (Crown Reduction), By Hand	313.18	
32 01 90 23-0083	EA	12" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	567.66	
32 01 90 23-0084	EA	18" Caliper, Tree Pruning (Crown Reduction), By Hand	364.08	
32 01 90 23-0085	EA	18" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	659.72	
32 01 90 23-0086	EA	24" Caliper, Tree Pruning (Crown Reduction), By Hand	443.16	
32 01 90 23-0087	EA	24" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	797.90	
32 01 90 23-0088	EA	30" Caliper, Tree Pruning (Crown Reduction), By Hand	550.50	
32 01 90 23-0089	EA	30" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	1,005.60	
32 01 90 23-0090	EA	36" Caliper, Tree Pruning (Crown Reduction), By Hand	753.96	
32 01 90 23-0091	EA	36" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	1,362.92	
32 01 90 23-0092	EA	48" Caliper, Tree Pruning (Crown Reduction), By Hand	1,196.16	
32 01 90 23-0093	EA	48" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	2,191.70	

32 01 90 23-0094**Tree Pruning; Crown Restoration** (32 01 90 23-0001)

Note: Crown restoration can improve the structure and appearance of trees that have been topped or severely pruned using heading cuts. One to three sprouts on main branch stubs should be selected to reform a more natural appearing crown. Selected vigorous sprouts may need to be thinned to a lateral, or even headed, to control length growth in order to ensure adequate attachment for the size of the sprout. Restoration may require several prunings over a number of years.

32 01 90 23-0095	EA	1-1/2" Caliper, Tree Pruning (Crown Restoration), By Hand	51.17	
32 01 90 23-0096	EA	2" Caliper, Tree Pruning (Crown Restoration), By Hand	58.54	
32 01 90 23-0097	EA	2-1/2" Caliper, Tree Pruning (Crown Restoration), By Hand	65.82	
32 01 90 23-0098	EA	3" Caliper, Tree Pruning (Crown Restoration), By Hand	73.12	
32 01 90 23-0099	EA	4" Caliper, Tree Pruning (Crown Restoration), By Hand	111.12	
32 01 90 23-0100	EA	4" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	185.17	



Exterior Improvements		32
Operation and Maintenance of Exterior Improvements		32 01
Operation and Maintenance of Planting		32 01 90

32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 90 23-0101	EA		6" Caliper, Tree Pruning (Crown Restoration), By Hand.....	194.51	
32 01 90 23-0102	EA		6" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	352.65	
32 01 90 23-0103	EA		9" Caliper, Tree Pruning (Crown Restoration), By Hand.....	311.50	
32 01 90 23-0104	EA		9" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	564.17	
32 01 90 23-0105	EA		12" Caliper, Tree Pruning (Crown Restoration), By Hand.....	359.95	
32 01 90 23-0106	EA		12" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	652.42	
32 01 90 23-0107	EA		18" Caliper, Tree Pruning (Crown Restoration), By Hand.....	418.41	
32 01 90 23-0108	EA		18" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	758.22	
32 01 90 23-0109	EA		24" Caliper, Tree Pruning (Crown Restoration), By Hand.....	509.34	
32 01 90 23-0110	EA		24" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	917.14	
32 01 90 23-0111	EA		30" Caliper, Tree Pruning (Crown Restoration), By Hand.....	632.75	
32 01 90 23-0112	EA		30" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	1,155.85	
32 01 90 23-0113	EA		36" Caliper, Tree Pruning (Crown Restoration), By Hand.....	866.67	
32 01 90 23-0114	EA		36" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	1,566.60	
32 01 90 23-0115	EA		48" Caliper, Tree Pruning (Crown Restoration), By Hand.....	1,374.86	
32 01 90 23-0116	EA		48" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	2,519.29	
32 01 90 23-0117 Palm Tree Pruning (32 01 90 23)					
32 01 90 23-0118	EA		Trim Mexican Palm Tree.....	93.06	
32 01 90 23-0119	EA		Trim Date Palm Tree	209.98	
32 01 90 23-0120	LF		Skin Palm Tree	23.87	
32 01 90 23-0121	EA		Trim And Skin Palm Tree, Up To 30' Height.....	89.94	
32 01 90 23-0122	EA		Trim And Skin Palm Tree, >30' To 60' Height.....	111.10	
32 01 90 23-0123	EA		Trim And Skin Palm Tree, >60' To 80' Height.....	124.32	
32 01 90 23-0124 Shrub Pruning (32 01 90 23)					
32 01 90 23-0125	MSF		Shrub Pruning, Prune, Shrub Bed	100.01	
32 01 90 23-0126	EA		Shrub Pruning, Prune, Shrub Under 3' Height.....	3.51	
32 01 90 23-0127	EA		Shrub Pruning, Prune, Shrub 4' Height.....	7.90	
32 01 90 23-0128	EA		Shrub Pruning, Prune, Shrub Over 6'	14.04	
32 01 90 23-0129	EA		Shrub Pruning, Prune Trees From Ground	35.11	
32 01 90 23-0130	EA		Shrub Pruning, Prune Trees From Ground, High Work	87.77	
32 01 90 23-0131 Root Pruning (32 01 90 23)					
Note: Cut roots cleanly after excavation with clean, sharp tools, to promote callus formation and wound closure. Wounds to be dressed with a tree rooting hormone compound. Mix soil improvements (e.g., peat moss) with fill soil to promote new root growth. Backfill the excavation and water the soil around the roots to avoid leaving air pockets.					
32 01 90 23-0132	EA		Root Pruning, One Side Of Up To 1-1/2" Caliper Tree	17.55	
32 01 90 23-0133	EA		Root Pruning, One Side Of 2" Caliper Tree	21.94	
32 01 90 23-0134	EA		Root Pruning, One Side Of 2-1/2" Caliper Tree	26.33	
32 01 90 23-0135	EA		Root Pruning, One Side Of 3" Caliper Tree	35.11	
32 01 90 23-0136	EA		Root Pruning, One Side Of 4" Caliper Tree	52.66	
32 01 90 23-0137	EA		Root Pruning, One Side Of >4" To 6" Caliper Tree.....	65.82	
32 01 90 23-0138	EA		Root Pruning, One Side Of >6" To 9" Caliper Tree.....	92.16	
32 01 90 23-0139	EA		Root Pruning, One Side Of >9" To 12" Caliper Tree.....	105.33	
32 01 90 23-0140	EA		Root Pruning, One Side Of >12" To 18" Caliper Tree.....	122.88	
32 01 90 23-0141	EA		Root Pruning, One Side Of >18" To 24" Caliper Tree	153.60	
32 01 90 23-0142	EA		Root Pruning, One Side Of >24" To 30" Caliper Tree.....	188.71	
32 01 90 23-0143	EA		Root Pruning, One Side Of >30" To 36" Caliper Tree.....	219.43	
32 01 90 23-0144	EA		Root Pruning, One Side Of >36" To 42" Caliper Tree.....	241.37	
32 01 90 23-0145	EA		Root Pruning, One Side Of >42" To 48" Caliper Tree.....	263.32	
32 01 90 26 Watering (32 01 90)					
Note: Includes delivered water. Not to be used as basis if watering with irrigation system or on-site owner provided water from hose or hydrant.					
32 01 90 26-0001 Watering Lawns, Plants And Trees (32 01 90 26)					
Note: Includes delivered water and watering truck. Not to be used as basis if watering with irrigation system or on-site owner provided water from hose or hydrant. These tasks are to be used as requested by the owner for extended watering period for lawns, plants and trees.					
32 01 90 26-0002	MSF		Watering Sod/Grass, Per Inch Of Water	45.56	
32 01 90 26-0003	CSF		Watering Groundcover.....	7.02	
32 01 90 26-0004	CSF		Watering Annuals And Perennials	12.40	
32 01 90 26-0005	EA		Watering Trees, 1-1/2" To 5" Diameter By Hand	23.89	
32 01 90 26-0006	EA		Watering Trees, 6" To 12" Diameter By Hand	31.41	
32 01 90 26-0007	EA		Watering Trees, 13" To 18" Diameter By Hand	38.92	
32 01 90 26-0008	EA		Watering Trees, >18" Diameter By Hand.....	47.92	
32 01 90 26-0009	EA		Watering Shrub Or Bush By Hand.....	12.02	
32 01 90 36 Weed and Brush Control (32 01 90)					
32 01 90 36-0001			Herbicide, Push Or Hand Spreader Applied (32 01 90 36)		

32 Exterior Improvements**32 01 Operation and Maintenance of Exterior Improvements****32 01 90 Operation and Maintenance of Planting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 90 36-0002 MSF Non-Selective Post Emergent Weed Herbicide (70.4 oz/acre or 1.62 oz/MSF).....	7.73	
For >45 To 90, Deduct	-0.43	
For >90 To 225, Deduct	-1.20	
For >225 To 870, Deduct	-1.97	
For >870, Deduct	-2.40	
32 01 90 36-0003 MSF Non-Selective Post Emergent Woody Brush And Tree Herbicide (128 oz/acre or 2.94 oz/MSF).....	8.37	
For >45 To 90, Deduct	-0.49	
For >90 To 225, Deduct	-1.33	
For >225 To 870, Deduct	-2.16	
For >870, Deduct	-2.65	
32 01 90 36-0004 MSF Selective Weed Herbicide (56 oz/Acre or 1.28 oz/MSF).....	8.33	
Note: Includes pre and post emergent.		
For >45 To 90, Deduct	-0.49	
For >90 To 225, Deduct	-1.32	
For >225 To 870, Deduct	-2.15	
For >870, Deduct	-2.64	
32 01 90 36-0005 MSF Selective Woody Brush And Tree Herbicide (72 oz/acre or 1.65 oz/MSF).....	8.72	
Note: Includes pre and post emergents.		
For >45 To 90, Deduct	-0.52	
For >90 To 225, Deduct	-1.40	
For >225 To 870, Deduct	-2.27	
For >870, Deduct	-2.79	

32 01 90 39 Pesticides (32 01 90)

32 01 90 39-0001 MSF Pesticide - Surface Eating.....	10.42
32 01 90 39-0002 MSF Pesticide - Subsurface Eating.....	10.45
32 01 90 39-0003 MSF Pesticide - Fungicide Application	11.14

32 01 90 43 Weed and Cultivate Beds (32 01 90)

32 01 90 43-0001 MSF Weed Mulched Bed	42.89
32 01 90 43-0002 MSF Weed Unmulched Bed	122.53
32 01 90 43-0003 MSF Cultivate Bed	65.98

32 01 90 46 Hedge Trimming (32 01 90)

32 01 90 46-0001 LF Trim 0-5' High Hedge, 0-3' Wide.....	5.38
32 01 90 46-0002 LF Trim 0-5' High Hedge, 4-6' Wide.....	8.07
32 01 90 46-0003 LF Trim 5-10' High Hedge, 0-3' Wide.....	12.22
32 01 90 46-0004 LF Trim 5-10' High Hedge, 4-6' Wide.....	12.44

32 01 90 53 Plant Growth Regulator Application (32 01 90)

32 01 90 53-0001 EA Plant Growth Regulator Application.....	5.64

32 10 Bases, Ballasts, and Paving (32)**32 11 Base Courses (32 10)****32 11 16 Subbase Courses (32 11)****32 11 16 16 Aggregate Subbase Courses (32 11 16)**

32 11 16 16-0001 Base And Subbase Courses For Roadways And Parking Areas (32 11 16 16)	
Note: Includes 3/4" To 1-1/2" aggregate material, hauling up to 15 miles, dumping, spreading, grading, compacting and watering. See CSI section 01 74 19 00-0029 for hauling greater than 15 miles.	
32 11 16 16-0002 Base And Subbase Courses By The CY (32 11 16 16-0001)	
32 11 16 16-0003 CY Class II Graded Crushed Aggregate Roadway Base Course	88.16
32 11 16 16-0004 CY Class III Graded Crushed Aggregate Roadway Base Course	85.26

32 11 16 16-0005 Class II Base Courses By The SY (32 11 16 16-0001)

32 11 16 16-0006 SY 2" Class II Graded Crushed Aggregate Base Course	4.84
For Up To 500, Add	1.28
For >500 To 1,000, Add	0.48
For >5,000 To 10,000, Deduct	-0.18
For >10,000, Deduct	-0.31
32 11 16 16-0007 SY 4" Class II Crushed Aggregate Base Course	9.68
For Up To 500, Add	2.55
For >500 To 1,000, Add	0.97
For >5,000 To 10,000, Deduct	-0.37
For >10,000, Deduct	-0.63
32 11 16 16-0008 SY 6" Class II Crushed Aggregate Base Course	14.52
For Up To 500, Add	3.83
For >500 To 1,000, Add	1.45
For >5,000 To 10,000, Deduct	-0.55
For >10,000, Deduct	-0.94



Exterior Improvements		32
Bases, Ballasts, and Paving		32 10
Base Courses		32 11

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 11 16 16-0009 SY 9" Class II Crushed Aggregate Base Course.....	21.79	
For Up To 500, Add	5.74	
For >500 To 1,000, Add	2.18	
For >5,000 To 10,000, Deduct	-0.83	
For >10,000, Deduct	-1.42	
32 11 16 16-0010 SY 12" Class II Crushed Aggregate Base Course.....	29.06	
For Up To 500, Add	7.66	
For >500 To 1,000, Add	2.91	
For >5,000 To 10,000, Deduct	-1.10	
For >10,000, Deduct	-1.89	
32 11 23 Aggregate Base Courses (32 11)		
32 11 23 16 Aggregate Base Courses (32 11 23)		
32 11 23 16-0001 Base Courses For Sidewalk (Asphalt Or Concrete) (32 11 23 16)		
Note: Includes material, hauling up to 15 miles, placement, spreading, grading, and compaction. See CSI section 01 74 19 00-0029 for hauling greater than 15 miles.		
32 11 23 16-0002 SF 2" Crushed Aggregate Base Course For Sidewalks	0.58	
For Up To 1,000, Add	0.16	
For >1,000 To 2,500, Add	0.06	
32 11 23 16-0003 SF 3" Crushed Aggregate Base Course For Sidewalks	0.83	
For Up To 1,000, Add	0.23	
For >1,000 To 2,500, Add	0.08	
32 11 23 16-0004 SF 4" Crushed Aggregate Base Course For Sidewalks	1.09	
For Up To 1,000, Add	0.31	
For >1,000 To 2,500, Add	0.11	
32 11 23 16-0005 SF 5" Crushed Aggregate Base Course For Sidewalks	1.41	
For Up To 1,000, Add	0.40	
For >1,000 To 2,500, Add	0.14	
32 11 23 16-0006 SF 6" Crushed Aggregate Base Course For Sidewalks	1.73	
For Up To 1,000, Add	0.48	
For >1,000 To 2,500, Add	0.17	
32 11 23 16-0007 SF 7" Crushed Aggregate Base Course For Sidewalks	1.99	
For Up To 1,000, Add	0.56	
For >1,000 To 2,500, Add	0.20	
32 11 23 16-0008 SF 8" Crushed Aggregate Base Course For Sidewalks	2.26	
For Up To 1,000, Add	0.63	
For >1,000 To 2,500, Add	0.23	
32 11 26 Asphaltic Base Courses (32 11)		
32 11 26 19 Bituminous-Stabilized Base Courses (32 11 26)		
32 11 26 19-0001 Bituminous-Stabilized Base Courses (32 11 26 19)		
32 11 26 19-0002 CY Bituminous Stabilized Base Course	111.97	
Note: 3/4" ASTM C33.		
32 12 Flexible Paving (32 10)		
32 12 13 Preparatory Coats (32 12)		
32 12 13 13 Tack Coats (32 12 13)		
32 12 13 13-0001 SY Tack Coat, 0.04 Gallon/SY	0.70	
For Up To 150, Add	0.14	
For >150 To 300, Add	0.07	
For >300 To 500, Add	0.04	
For >3,500 To 5,000, Deduct	-0.02	
For >5,000, Deduct	-0.04	
32 12 13 13-0002 SY Tack Coat, 0.05 Gallon/SY	0.79	
For Up To 150, Add	0.16	
For >150 To 300, Add	0.08	
For >300 To 500, Add	0.04	
For >3,500 To 5,000, Deduct	-0.02	
For >5,000, Deduct	-0.05	
32 12 13 13-0003 SY Tack Coat, 0.07 Gallon/SY	0.96	
For Up To 150, Add	0.20	
For >150 To 300, Add	0.10	
For >300 To 500, Add	0.05	
For >3,500 To 5,000, Deduct	-0.02	
For >5,000, Deduct	-0.06	
32 12 13 13-0004 SY Tack Coat, 0.08 Gallon/SY	1.04	
For Up To 150, Add	0.22	
For >150 To 300, Add	0.10	
For >300 To 500, Add	0.05	
For >3,500 To 5,000, Deduct	-0.03	
For >5,000, Deduct	-0.07	
32 12 13 13-0005 SY Tack Coat, 0.10 Gallon/SY	1.21	
For Up To 150, Add	0.27	
For >150 To 300, Add	0.12	
For >300 To 500, Add	0.06	
For >3,500 To 5,000, Deduct	-0.03	
For >5,000, Deduct	-0.08	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 12 Flexible Paving**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 13 13-0006	SY	Tack Coat, 0.11 Gallon/SY	1.30	
		For Up To 150, Add	0.29	
		For >150 To 300, Add	0.13	
		For >300 To 500, Add	0.07	
		For >3,500 To 5,000, Deduct	-0.03	
		For >5,000, Deduct	-0.09	
32 12 13 19		Prime Coats (32 12 13)		
32 12 13 19-0001	SY	Surface Prime Coat, 0.26 Gallon/SY	2.21	
		For Up To 150, Add	0.51	
		For >150 To 300, Add	0.22	
		For >300 To 500, Add	0.11	
		For >3,500 To 5,000, Deduct	-0.06	
		For >5,000, Deduct	-0.16	
32 12 13 19-0002	SY	Surface Prime Coat, 0.28 Gallon/SY	2.35	
		For Up To 150, Add	0.54	
		For >150 To 300, Add	0.24	
		For >300 To 500, Add	0.12	
		For >3,500 To 5,000, Deduct	-0.06	
		For >5,000, Deduct	-0.17	
32 12 13 19-0003	SY	Surface Prime Coat, 0.30 Gallon/SY	2.49	
		For Up To 150, Add	0.58	
		For >150 To 300, Add	0.25	
		For >300 To 500, Add	0.12	
		For >3,500 To 5,000, Deduct	-0.06	
		For >5,000, Deduct	-0.18	
32 12 16		Asphalt Paving (32 12)		
32 12 16 13		Plant-Mix Asphalt Paving (32 12 16)		
Note: Includes delivery up to 15 miles, placement, rolling, finishing and sweeping. Excludes base, tack or price coat, seal coats and roadway fabrics (where required). See CSI section 01 74 19 00-0029 for hauling greater than 15 miles, 32 11 00 00-0000 for base courses, 32 12 13 13-0000 for tack coats, 32 12 13 19-0000 for prime coats, 32 12 16 39-0000 for roadway fabrics, 32 12 36 00-0000 for seal coats.				
32 12 16 13-0001		Intermediate Binder Courses, Hot Mix Asphalt (HMA) (32 12 16 13)		
Note: Meets Caltrans requirements.				
32 12 16 13-0002	TON	Bituminous Hot Mix Intermediate Binder Course 3,954 LB/CY	153.11	
		Note: Includes Type A and Type B with 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping. Used for applications not described elsewhere in this section.		
		For PG64-10 Asphalt, Add	18.37	
		For Up To 25, Add	20.83	
		For >25 To 50, Add	11.49	
		For >500 To 1,000, Deduct	-6.55	
		For >1,000 To 2,500, Deduct	-11.88	
		For >2,500 To 5,000, Deduct	-18.43	
		For >5,000, Deduct	-26.43	
		For Warm Mix Additive, Add	7.96	
32 12 16 13-0003	SY	1" Thick Bituminous Hot Mix Intermediate Binder Course	8.66	
		Note: Includes placement, rolling, finishing and sweeping.		
		For PG64-10 Asphalt, Add	1.01	
		For Up To 1,000, Add	1.22	
		For >1,000 To 2,000, Add	0.68	
		For >10,000 To 20,000, Deduct	-0.37	
		For >20,000 To 50,000, Deduct	-0.68	
		For >50,000 To 100,000, Deduct	-1.06	
		For >100,000, Deduct	-1.52	
32 12 16 13-0004	SY	1-1/2" Thick Bituminous Hot Mix Intermediate Binder Course	12.87	
		Note: Includes placement, rolling, finishing and sweeping.		
		For PG64-10 Asphalt, Add	1.51	
		For Up To 700, Add	1.79	
		For >700 To 1,400, Add	0.99	
		For >7,000 To 14,000, Deduct	-0.56	
		For >14,000 To 32,000, Deduct	-1.02	
		For >32,000 To 64,000, Deduct	-1.58	
		For >64,000, Deduct	-2.27	
32 12 16 13-0005	SY	2" Thick Bituminous Hot Mix Intermediate Binder Course	16.66	
		Note: Includes placement, rolling, finishing and sweeping.		
		For PG64-10 Asphalt, Add	2.02	
		For Up To 500, Add	2.24	
		For >500 To 1,000, Add	1.23	
		For >5,000 To 10,000, Deduct	-0.74	
		For >10,000 To 24,000, Deduct	-1.34	
		For >24,000 To 48,000, Deduct	-2.08	
		For >48,000, Deduct	-2.98	
32 12 16 13-0006	SY	2-1/2" Thick Bituminous Hot Mix Intermediate Binder Course	21.02	
		Note: Includes placement, rolling, finishing and sweeping.		
		For PG64-10 Asphalt, Add	2.52	
		For Up To 400, Add	2.86	
		For >400 To 800, Add	1.58	
		For >4,000 To 8,000, Deduct	-0.92	
		For >8,000 To 20,000, Deduct	-1.68	
		For >20,000 To 40,000, Deduct	-2.61	
		For >40,000, Deduct	-3.74	



Exterior Improvements		32
Bases, Ballasts, and Paving		32 10
Flexible Paving		32 12

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 16 13-0007	SY		3" Thick Bituminous Hot Mix Intermediate Binder Course 25.22 Note: Includes placement, rolling, finishing and sweeping. For PG64-10 Asphalt, Add 3.03 For Up To 340, Add 3.43 For >340 To 680, Add 2.90 For >3,400 To 6,800, Deduct -1.11 For >6,800 To 17,000, Deduct -2.02 For >17,000 To 34,000, Deduct -3.13 For >34,000, Deduct -4.49		
32 12 16 13-0008	SY		3-1/2" Thick Bituminous Hot Mix Intermediate Binder Course 29.43 Note: Includes placement, rolling, finishing and sweeping. For PG64-10 Asphalt, Add 3.53 For Up To 280, Add 4.00 For >280 To 560, Add 2.21 For >2,800 To 5,600, Deduct -1.29 For >5,600 To 14,000, Deduct -2.35 For >14,000 To 28,000, Deduct -3.65 For >28,000, Deduct -5.24		
32 12 16 13-0009	SY		4" Thick Bituminous Hot Mix Intermediate Binder Course 33.63 Note: Includes placement, rolling, finishing and sweeping. For PG64-10 Asphalt, Add 4.04 For Up To 250, Add 4.57 For >250 To 500, Add 2.52 For >2,500 To 5,000, Deduct -1.48 For >5,000 To 12,000, Deduct -2.69 For >12,000 To 24,000, Deduct -4.17 For >24,000, Deduct -5.99		
32 12 16 13-0010	SY		5" Thick Bituminous Hot Mix Intermediate Binder Course 42.03 Note: Includes placement, rolling, finishing and sweeping. For PG64-10 Asphalt, Add 5.04 For Up To 200, Add 5.72 For >200 To 400, Add 3.15 For >2,000 To 4,000, Deduct -1.85 For >4,000 To 10,000, Deduct -3.36 For >10,000 To 20,000, Deduct -5.21 For >20,000, Deduct -7.48		
32 12 16 13-0011	SY		6" Thick Bituminous Hot Mix Intermediate Binder Course 50.45 Note: Includes placement, rolling, finishing and sweeping. For PG64-10 Asphalt, Add 6.05 For Up To 160, Add 6.86 For >160 To 320, Add 3.79 For >1,600 To 3,200, Deduct -2.22 For >3,200 To 8,000, Deduct -4.04 For >8,000 To 16,000, Deduct -6.26 For >16,000, Deduct -8.98		
32 12 16 13-0012			Surface Wearing Courses, Hot Mix Asphalt (HMA) (32 12 16 13) Note: Meets Caltrans requirements.		
32 12 16 13-0013	TON		Bituminous Hot Mix Surface Course 3954 LB/CY 155.17 Note: Includes Type A and Type B with 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping. Used for applications not described elsewhere in this section. For PG64-10 Asphalt, Add 2.92 For "PG" Asphalt, Add 28.05 For Up To 25, Add 22.41 For >25 To 50, Add 12.55 For >500 To 1,000, Deduct -6.38 For >1,000 To 2,500, Deduct -11.59 For >2,500 To 5,000, Deduct -17.97 For >5,000, Deduct -25.79 For Warm Mix Additive, Add 7.60		
32 12 16 13-0014	TON		Tire Rubber Modified Paving Asphalt (TRMAC) Surface Course (MAC-15TR) 172.06 Note: Includes 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping. For Up To 25, Add 25.25 For >25 To 50, Add 14.19 For >500 To 1,000, Deduct -7.00 For Warm Mix Additive, Add 8.28		
32 12 16 13-0015	TON		Asphalt Rubberized Hot Mix (ARHM) Surface Course 183.75 Note: Includes 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping. For Up To 25, Add 26.42 For >25 To 50, Add 14.77 For >500 To 1,000, Deduct -7.58 For >1,000 To 2,500, Deduct -13.77 For >2,500 To 5,000, Deduct -21.35 For >5,000, Deduct -30.63 For Warm Mix Additive, Add 9.04		
32 12 16 13-0016	SY		1" Thick Bituminous Hot Mix Surface Wearing Course 8.44 Note: Includes placement, rolling, finishing and sweeping. For PG64-10 Asphalt, Add 0.15 For "PG" Asphalt, Add 1.47 For Up To 1,000, Add 1.26 For >1,000 To 2,000, Add 0.71 For >10,000 To 20,000, Deduct -0.35 For >20,000 To 50,000, Deduct -0.64 For >50,000 To 100,000, Deduct -1.00 For >100,000, Deduct -1.43		

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 12 Flexible Paving**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 16 13-0017 SY 1-1/2" Thick Bituminous Hot Mix Surface Wearing Course Note: Includes placement, rolling, finishing and sweeping.	12.50	
For PG64-10 Asphalt, Add	0.23	
For "PG" Asphalt, Add	2.21	
For Up To 700, Add	1.85	
For >700 To 1,400, Add	1.04	
For >7,000 To 14,000, Deduct	-0.53	
For >14,000 To 32,000, Deduct	-0.96	
For >32,000 To 64,000, Deduct	-1.49	
For >64,000, Deduct	-2.14	
32 12 16 13-0018 SY 2" Thick Bituminous Hot Mix Surface Wearing Course Note: Includes placement, rolling, finishing and sweeping.	16.07	
For PG64-10 Asphalt, Add	0.31	
For "PG" Asphalt, Add	2.94	
For Up To 500, Add	2.29	
For >500 To 1,000, Add	1.28	
For >5,000 To 10,000, Deduct	-0.69	
For >10,000 To 24,000, Deduct	-1.26	
For >24,000 To 48,000, Deduct	-1.94	
For >48,000, Deduct	-2.79	
32 12 16 13-0019 SY 2-1/2" Thick Bituminous Hot Mix Surface Wearing Course Note: Includes placement, rolling, finishing and sweeping.	20.34	
For PG64-10 Asphalt, Add	0.38	
For "PG" Asphalt, Add	3.68	
For Up To 400, Add	2.94	
For >400 To 800, Add	1.64	
For >4,000 To 8,000, Deduct	-0.87	
For >8,000 To 20,000, Deduct	-1.58	
For >20,000 To 40,000, Deduct	-2.45	
For >40,000, Deduct	-3.52	
32 12 16 13-0020 SY 3" Thick Bituminous Hot Mix Surface Wearing Course Note: Includes placement, rolling, finishing and sweeping.	24.40	
For PG64-10 Asphalt, Add	0.46	
For "PG" Asphalt, Add	4.41	
For Up To 340, Add	3.52	
For >340 To 680, Add	2.89	
For >3,400 To 6,800, Deduct	-1.04	
For >6,800 To 17,000, Deduct	-1.90	
For >17,000 To 34,000, Deduct	-2.93	
For >34,000, Deduct	-4.22	
32 12 16 13-0021 CSF Type F Asphalt Surface Cap 1/8" To 1/4" Thick For Use Only On Top Concrete Filled Trench.....	91.44	
32 12 16 13-0022 Hand Placed, Hot Mix Asphalt (HMA) ^(32 12 16 13)		
32 12 16 13-0023 TON Hand Placed Hot Mixed Asphalt 3,954 LB/CY Note: For small areas not reachable by machine. Includes placement, rolling, finishing and sweeping.	371.69	
32 12 16 13-0024 AC Dikes ^(32 12 16 13)		
32 12 16 13-0025 LF Type A, Asphalt Concrete Dike.....	13.82	5.44
32 12 16 13-0026 LF Type C, Asphalt Concrete Dike.....	11.70	5.44
32 12 16 13-0027 LF Type D, Asphalt Concrete Dike.....	17.30	5.44
32 12 16 13-0028 LF Type E, Asphalt Concrete Dike.....	13.75	5.44
32 12 16 13-0029 LF Type F, Asphalt Concrete Dike.....	12.33	5.44
32 12 16 13-0030 Ditch Lining ^(32 12 16 13)		
Note: For sloped ditches		
32 12 16 13-0031 SY 4" Concrete Ditch Pavement.....	67.75	
32 12 16 13-0032 SY 4" Asphalt Ditch Pavement.....	51.32	
32 12 16 13-0033 SY 4" Soil-Cement Ditch Pavement.....	8.64	
32 12 16 13-0034 SY 4" Rip-Rap Ditch Pavement.....	8.42	
32 12 16 19 Cold-Mix Asphalt Paving ^(32 12 16)		
Note: 0.5 Gal asphalt/SY per inch depth; well graded granular aggregate.		
32 12 16 19-0001 Cold Mix Asphalt (CMA) Pavement ^(32 12 16 19)		
Note: 0.5 Gal asphalt/SY per inch depth; well graded granular aggregate.		
32 12 16 19-0002 SY Cold Laid Asphalt Pavement, Traveling Plant Mixed In Windrows, Compacted 4" Course.....	13.64	
32 12 16 19-0003 SY Cold Laid Asphalt Pavement, Rotary Plant Mixed In Place, Compacted 4" Course.....	13.28	
32 12 16 19-0004 SY Cold Laid Asphalt Pavement, Central Stationary Plant, Mixed, Compacted 4" Course.....	21.57	
32 12 16 39 Paving Fabrics ^(32 12 16)		
See CSI section 31 32 19 16-0000 for geotextile fabric.		
32 12 16 39-0001 Geotextile Paving Fabrics ^(32 12 16 39)		
32 12 16 39-0002 SY 3.6 Ounce/SY, 90 LB Grab Tensile Nonwoven Polypropylene Geotextile Paving Fabric (Carthage Mills FX-38A/O).....	2.16	
For Up To 50, Add	0.47	
For >50 To 150, Add	0.35	
For >150 To 250, Add	0.23	
For >250 To 500, Add	0.12	



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Flexible Paving			32 12

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MINOR			TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION			UNIT COST	UNIT COST
32 12 16 39-0003	SY	4.1 Ounce/SY, 101 LB Grab Tensile Nonwoven Polypropylene Geotextile Paving Fabric (Carthage Mills FX-42 A/O).....	2.33	
		For Up To 50, Add	0.51	
		For >50 To 150, Add	0.38	
		For >150 To 250, Add	0.25	
		For >250 To 500, Add	0.12	
32 12 16 43 Waterproofing Membranes (32 12 16)				
32 12 16 43-0001		Waterproofing Membranes (32 12 16 43)		
32 12 16 43-0002	SY	Up To 500 SY, Preformed Rubberized Asphalt Membrane	36.92	
32 12 16 43-0003	SY	>500 To 1,000 SY, Preformed Rubberized Asphalt Membrane	27.65	
32 12 16 43-0004	SY	>1,000 SY, Preformed Rubberized Asphalt Membrane.....	17.15	
32 12 33 Flexible Paving Surface Treatments (32 12 33)				
32 12 33 00-0001		Bituminous Surface Treatment For Roadways (32 12 33)		
		Note: 0.25 Gal bitumen per SY and 30 lb of gravel/SY.		
32 12 33 00-0002	SY	Single Course Bituminous Treatment, Prepare And Clean Surface Roadway	3.26	
32 12 33 00-0003	SY	Double Course Bituminous Treatment, Prepare And Clean Surface Roadway	5.86	
32 12 33 00-0004		Bituminous Surface Treatment For Trails (32 12 33)		
		Note: 0.25 Gal bitumen per SY and 20 lb of gravel/SY.		
32 12 33 00-0005	SY	Bituminous Surface Treatment, For Trails	2.22	
32 12 36 Seal Coats (32 12)				
		See CSI section 32 01 13 62-0000 for slurry seal.		
32 12 36 13 Asphaltic Seal and Fog Coats (32 12 36)				
32 12 36 13-0001		Asphalt Emulsion Seal Coat (Chip Seal) (32 12 36 13)		
		Note: Includes initial sweeping prior to placement, cleaning of area, rolling and final sweeping. Excludes crack repair, fog sealer, and any additional consecutive days sweeping following final sweeping.		
32 12 36 13-0002		Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) (32 12 36 13-0001)		
		Note: 12 to 20 Pounds Per SY of 1/4" No. 10 with 0.15 to 0.30 gallons asphalt emulsion per SY.		
32 12 36 13-0003	SY	Up To 200 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	5.22	
		For Each Additional 0.5% Latex Additive, Add	0.45	
32 12 36 13-0004	SY	>200 To 500 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.76	
		For Each Additional 0.5% Latex Additive, Add	0.45	
32 12 36 13-0005	SY	>500 To 1,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.55	
		For Each Additional 0.5% Latex Additive, Add	0.45	
32 12 36 13-0006	SY	>1,000 To 5,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.31	
		For Each Additional 0.5% Latex Additive, Add	0.45	
32 12 36 13-0007	SY	>5,000 To 10,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.18	
		For Each Additional 0.5% Latex Additive, Add	0.45	
32 12 36 13-0008	SY	>10,000 To 20,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.08	
		For Each Additional 0.5% Latex Additive, Add	0.45	
32 12 36 13-0009	SY	>20,000 To 50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.95	
		For Each Additional 0.5% Latex Additive, Add	0.45	
32 12 36 13-0010	SY	>50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	3.89	
		For Each Additional 0.5% Latex Additive, Add	0.45	
32 12 36 13-0011		Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) (32 12 36 13-0001)		
		Note: 16 to 25 Pounds Per SY of 5/16" No. 8 with 0.25 to 0.35 gallons asphalt emulsion per SY.		
32 12 36 13-0012	SY	Up To 200 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	6.08	
		For Each Additional 0.5% Latex Additive, Add	0.56	
32 12 36 13-0013	SY	>200 To 500 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.56	
		For Each Additional 0.5% Latex Additive, Add	0.56	
32 12 36 13-0014	SY	>500 To 1,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.30	
		For Each Additional 0.5% Latex Additive, Add	0.56	
32 12 36 13-0015	SY	>1,000 To 5,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.16	
		For Each Additional 0.5% Latex Additive, Add	0.56	
32 12 36 13-0016	SY	>5,000 To 10,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.87	
		For Each Additional 0.5% Latex Additive, Add	0.56	
32 12 36 13-0017	SY	>10,000 To 20,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.68	
		For Each Additional 0.5% Latex Additive, Add	0.56	
32 12 36 13-0018	SY	>20,000 To 50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.53	
		For Each Additional 0.5% Latex Additive, Add	0.56	
32 12 36 13-0019	SY	>50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.45	
		For Each Additional 0.5% Latex Additive, Add	0.56	
32 12 36 13-0020		Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) (32 12 36 13-0001)		
		Note: 20 to 30 Pounds Per SY of 3/8" No. 6 with 0.25 to 0.40 gallons asphalt emulsion per SY.		
32 12 36 13-0021	SY	Up To 200 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)	6.75	
		For Each Additional 0.5% Latex Additive, Add	0.67	

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32 12 36 13-0022	SY	>200 To 500 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	6.17	
		For Each Additional 0.5% Latex Additive, Add	0.67	
32 12 36 13-0023	SY	>500 To 1,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.86	
		For Each Additional 0.5% Latex Additive, Add	0.67	
32 12 36 13-0024	SY	>1,000 To 5,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.52	
		For Each Additional 0.5% Latex Additive, Add	0.67	
32 12 36 13-0025	SY	>5,000 To 10,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.34	
		For Each Additional 0.5% Latex Additive, Add	0.67	
32 12 36 13-0026	SY	>10,000 To 20,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.08	
		For Each Additional 0.5% Latex Additive, Add	0.67	
32 12 36 13-0027	SY	>20,000 To 50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.91	
		For Each Additional 0.5% Latex Additive, Add	0.67	
32 12 36 13-0028	SY	>50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.81	
		For Each Additional 0.5% Latex Additive, Add	0.67	
32 12 36 13-0029 Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)				
		(32 12 36 13-0001) Note: 23 to 35 Pounds Per SY of 1/2" No. 4 with 0.30 to 0.40 gallons asphalt emulsion per SY.		
32 12 36 13-0030	SY	Up To 200 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	6.84	
		For Each Additional 0.5% Latex Additive, Add	0.77	
32 12 36 13-0031	SY	>200 To 500 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	6.25	
		For Each Additional 0.5% Latex Additive, Add	0.77	
32 12 36 13-0032	SY	>500 To 1,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.95	
		For Each Additional 0.5% Latex Additive, Add	0.77	
32 12 36 13-0033	SY	>1,000 To 5,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.61	
		For Each Additional 0.5% Latex Additive, Add	0.77	
32 12 36 13-0034	SY	>5,000 To 10,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.43	
		For Each Additional 0.5% Latex Additive, Add	0.77	
32 12 36 13-0035	SY	>10,000 To 20,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.26	
		For Each Additional 0.5% Latex Additive, Add	0.77	
32 12 36 13-0036	SY	>20,000 To 50,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.00	
		For Each Additional 0.5% Latex Additive, Add	0.77	
32 12 36 13-0037	SY	>50,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.91	
		For Each Additional 0.5% Latex Additive, Add	0.77	
32 12 36 13-0038 Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) (32 12 36 13-0001)				
		Note: First coat 23 to 30 Pounds Per SY of 1/2" No. 4 with 0.20 to 0.35 gallons asphalt emulsion per SY, Second coat 12 to 20 Pounds Per SY of 1/4" No. 10 with 0.20 to 0.30 gallons asphalt emulsion per SY.		
32 12 36 13-0039	SY	Up To 200 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	10.42	
		For Each Additional 0.5% Latex Additive, Add	1.11	
32 12 36 13-0040	SY	>200 To 500 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	9.64	
		For Each Additional 0.5% Latex Additive, Add	1.11	
32 12 36 13-0041	SY	>500 To 1,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	9.21	
		For Each Additional 0.5% Latex Additive, Add	1.11	
32 12 36 13-0042	SY	>1,000 To 5,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	8.69	
		For Each Additional 0.5% Latex Additive, Add	1.11	
32 12 36 13-0043	SY	>5,000 To 10,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	8.42	
		For Each Additional 0.5% Latex Additive, Add	1.11	
32 12 36 13-0044	SY	>10,000 To 20,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	8.09	
		For Each Additional 0.5% Latex Additive, Add	1.11	
32 12 36 13-0045	SY	>20,000 To 50,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	7.83	
		For Each Additional 0.5% Latex Additive, Add	1.11	
32 12 36 13-0046	SY	>50,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	7.71	
		For Each Additional 0.5% Latex Additive, Add	1.11	
32 12 36 13-0047 Asphalt Emulsion Seal Coat (Scrub Seal) (32 12 36 13)				
		Note: Includes initial sweeping prior to placement, cleaning of area, towed broom sled of scrub brush and final sweeping. Excludes crack repair, fog sealer, and any additional consecutive days sweeping following final sweeping. See CSI section 32 12 36 13-0084 for fog seal.		
32 12 36 13-0048 Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal) (32 12 36 13-0047)				
		Note: 12 to 20 Pounds Per SY of 1/4" No. 10 with 0.15 to 0.30 gallons asphalt emulsion per SY.		
32 12 36 13-0049	SY	Up To 200 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.79	
		For Each Additional 0.5% Latex Additive, Add	0.45	
32 12 36 13-0050	SY	>200 To 500 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.52	
		For Each Additional 0.5% Latex Additive, Add	0.45	
32 12 36 13-0051	SY	>500 To 1,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.32	
		For Each Additional 0.5% Latex Additive, Add	0.45	
32 12 36 13-0052	SY	>1,000 To 5,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.12	
		For Each Additional 0.5% Latex Additive, Add	0.45	
32 12 36 13-0053	SY	>5,000 To 10,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.01	
		For Each Additional 0.5% Latex Additive, Add	0.45	
32 12 36 13-0054	SY	>10,000 To 20,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	3.91	
		For Each Additional 0.5% Latex Additive, Add	0.45	
32 12 36 13-0055	SY	>20,000 To 50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	3.80	
		For Each Additional 0.5% Latex Additive, Add	0.45	
32 12 36 13-0056	SY	>50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	3.77	
		For Each Additional 0.5% Latex Additive, Add	0.45	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 36 13-0057 Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal) (32 12 36 13-0047) Note: 16 to 25 Pounds Per SY of 5/16" No. 8 with 0.25 to 0.35 gallons asphalt emulsion per SY.		
32 12 36 13-0058 SY Up To 200 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.68	
For Each Additional 0.5% Latex Additive, Add	0.56	
32 12 36 13-0059 SY >200 To 500 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.36	
For Each Additional 0.5% Latex Additive, Add	0.56	
32 12 36 13-0060 SY >500 To 1,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.15	
For Each Additional 0.5% Latex Additive, Add	0.56	
32 12 36 13-0061 SY >1,000 To 5,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.00	
For Each Additional 0.5% Latex Additive, Add	0.56	
32 12 36 13-0062 SY >5,000 To 10,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.70	
For Each Additional 0.5% Latex Additive, Add	0.56	
32 12 36 13-0063 SY >10,000 To 20,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.52	
For Each Additional 0.5% Latex Additive, Add	0.56	
32 12 36 13-0064 SY >20,000 To 50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.39	
For Each Additional 0.5% Latex Additive, Add	0.56	
32 12 36 13-0065 SY >50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.34	
For Each Additional 0.5% Latex Additive, Add	0.56	
32 12 36 13-0066 Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal) (32 12 36 13-0047) Note: 20 to 30 Pounds Per SY of 3/8" No. 6 with 0.25 to 0.40 gallons asphalt emulsion per SY.		
32 12 36 13-0067 SY Up To 200 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	6.40	
For Each Additional 0.5% Latex Additive, Add	0.67	
32 12 36 13-0068 SY >200 To 500 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.99	
For Each Additional 0.5% Latex Additive, Add	0.67	
32 12 36 13-0069 SY >500 To 1,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.69	
For Each Additional 0.5% Latex Additive, Add	0.67	
32 12 36 13-0070 SY >1,000 To 5,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.37	
For Each Additional 0.5% Latex Additive, Add	0.67	
32 12 36 13-0071 SY >5,000 To 10,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.19	
For Each Additional 0.5% Latex Additive, Add	0.67	
32 12 36 13-0072 SY >10,000 To 20,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.92	
For Each Additional 0.5% Latex Additive, Add	0.67	
32 12 36 13-0073 SY >20,000 To 50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.76	
For Each Additional 0.5% Latex Additive, Add	0.67	
32 12 36 13-0074 SY >50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.70	
For Each Additional 0.5% Latex Additive, Add	0.67	
32 12 36 13-0075 Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal) (32 12 36 13-0047) Note: 23 to 35 Pounds Per SY of 1/2" No. 4 with 0.30 to 0.40 gallons asphalt emulsion per SY.		
32 12 36 13-0076 SY Up To 200 SY, Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	6.50	
For Each Additional 0.5% Latex Additive, Add	0.77	
32 12 36 13-0077 SY >200 To 500 SY, Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	6.09	
For Each Additional 0.5% Latex Additive, Add	0.77	
32 12 36 13-0078 SY >500 To 1,000 SY, Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.78	
For Each Additional 0.5% Latex Additive, Add	0.77	
32 12 36 13-0079 SY >1,000 To 5,000 SY, Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.44	
For Each Additional 0.5% Latex Additive, Add	0.77	
32 12 36 13-0080 SY >5,000 To 10,000 SY, Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.26	
For Each Additional 0.5% Latex Additive, Add	0.77	
32 12 36 13-0081 SY >10,000 To 20,000 SY, Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	5.10	
For Each Additional 0.5% Latex Additive, Add	0.77	
32 12 36 13-0082 SY >20,000 To 50,000 SY, Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.87	
For Each Additional 0.5% Latex Additive, Add	0.77	
32 12 36 13-0083 SY >50,000 SY, Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)	4.80	
For Each Additional 0.5% Latex Additive, Add	0.77	
32 12 36 13-0084 Fog Seal, CQS-1h (32 12 36 13) Note: A fog seal is a light application of diluted, slow-setting asphalt emulsion without aggregate cover. Includes sweeping and cleaning of area.		
32 12 36 13-0085 SY Up To 200 SY, CQS-1h, Fog Seal	1.78	
32 12 36 13-0086 SY >200 To 500 SY, CQS-1h, Fog Seal	1.27	
32 12 36 13-0087 SY >500 To 1,000 SY, CQS-1h, Fog Seal	1.08	
32 12 36 13-0088 SY >1,000 To 5,000 SY, CQS-1h, Fog Seal	0.91	
32 12 36 13-0089 SY >5,000 To 10,000 SY, CQS-1h, Fog Seal	0.82	
32 12 36 13-0090 SY >10,000 To 20,000 SY, CQS-1h, Fog Seal	0.75	
32 12 36 13-0091 SY >20,000 To 50,000 SY, CQS-1h, Fog Seal	0.69	
32 12 36 13-0092 SY >50,000 SY, CQS-1h, Fog Seal	0.67	
32 12 36 13-0093 Sand Sealer (32 12 36 13) Note: A sand seal is an application of asphalt binder followed by placement of a layer of sand or fine aggregate, and then rolled to embed the sand or fine aggregate into the binder. Includes sweeping and cleaning of area.		
32 12 36 13-0094 SY Up To 200 SY, Sand Seal	2.77	
32 12 36 13-0095 SY >200 To 500 SY, Sand Seal	1.83	
32 12 36 13-0096 SY >500 To 1,000 SY, Sand Seal	1.83	

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32 12 36 13-0097	SY	>1,000 To 5,000 SY, Sand Seal	1.62	
32 12 36 13-0098	SY	>5,000 To 10,000 SY, Sand Seal	1.50	
32 12 36 13-0099	SY	>10,000 To 20,000 SY, Sand Seal	1.41	
32 12 36 13-0100	SY	>20,000 To 50,000 SY, Sand Seal	1.33	
32 12 36 13-0101	SY	>50,000 SY, Sand Seal	1.30	
32 12 36 16 Coal Tar Seal Coats (32 12 36)				
32 12 36 16-0001		Thermoplastic Coal-Tar Asphalt Seal (32 12 36 16)		
		Note: Includes sweeping and cleaning of area.		
32 12 36 16-0002	SY	Up To 500 SY, Type I Thermoplastic Coal-Tar Asphalt Seal	13.29	
32 12 36 16-0003	SY	>500 To 1,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal	12.45	
32 12 36 16-0004	SY	>1,000 To 5,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal	10.94	
32 12 36 16-0005	SY	>5,000 To 20,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal	9.80	
32 12 36 16-0006	SY	>20,000 To 50,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal	8.31	
32 12 36 16-0007	SY	>50,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal	6.81	
32 12 36 16-0008	SY	Up To 500 SY, Type II Thermoplastic Coal-Tar Asphalt Seal	16.04	
32 12 36 16-0009	SY	>500 To 1,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal	15.11	
32 12 36 16-0010	SY	>1,000 To 5,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal	13.32	
32 12 36 16-0011	SY	>5,000 To 20,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal	11.98	
32 12 36 16-0012	SY	>20,000 To 50,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal	10.21	
32 12 36 16-0013	SY	>50,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal	8.43	
32 12 43 Porous Flexible Paving (32 12)				
32 12 43 00-0001		Flexible Recycled Plastic Porous Grid (32 12 43)		
		Note: Includes sand fill in rings. Excludes base, earth work and grass or sod.		
32 12 43 00-0002	SY	1" Thick, Recycled Plastic Flexible Pavement With Sand Fill	39.21	
		Note: Includes sand fill in rings. Excludes base, earth work and grass or sod. Invisible Structures, Inc.; Grasspave2.		
		For Up To 100, Add	13.04	
		For >100 To 500, Add	3.25	
		For >1,000 To 5,000, Deduct	-1.29	
		For >5,000, Deduct	-2.73	
32 12 73 Asphalt Paving Joint Sealants (32 12)				
32 12 73 00-0001		Expansion Joint In Sidewalk (32 12 73)		
32 12 73 00-0002	LF	For Hot Asphalt Poured Over Expansion Joint In Sidewalk	3.58	
32 13 Rigid Paving (32 10)				
32 13 13		Concrete Paving (32 13)		
		Note: The following section includes spreading and placing delivered Portland cement concrete mix.		
32 13 13 33		Plain Concrete Paving (32 13 13)		
32 13 13 33-0001		Concrete Paving Assemblies (32 13 13 33)		
		Note: Includes forms, wire mesh (where necessary), two mat layers #3-#6 reinforcing rods at 12" on center with chairs (where necessary), vapor barrier, concrete, curing, latex or hot asphalt expansion joints, control joints, screed, float and finish. Excludes excavation, base and earthwork. Includes concrete paving machine. To be used for roadways, driveways, parking areas, or other areas of vehicular traffic. See CSI section 03 05 13 00-0001 for color additive.		
32 13 13 33-0002		4,500 PSI Concrete Paving Assembly (32 13 13 33-0001)		
32 13 13 33-0003	SY	4" 4,500 PSI Concrete Paving Assembly	70.02	
		For 2,500 PSI Concrete, Deduct	-4.77	
		For 3,000 PSI Concrete, Deduct	-3.11	
		For 3,500 PSI Concrete, Deduct	-2.49	
		For 4,000 PSI Concrete, Deduct	-1.08	
		For 5,000 PSI Concrete, Add	0.66	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	5.39	
		For <12' Wide Pass, Add	11.29	
		For 24' Or Greater Wide Pass, Deduct	-14.00	
		For Air Entrainment, Add	2.07	
		For Slipforming, Deduct	-7.00	
		For Up To 100, Add	25.44	
		For >100 To 250, Add	14.79	
		For >250 To 500, Add	7.40	
		For >1,000 To 2,000, Deduct	-2.07	
		For >2,000 To 5,000, Deduct	-3.82	
		For >5,000 To 10,000, Deduct	-5.57	
		For >10,000 To 20,000, Deduct	-7.32	
		For >20,000, Deduct	-9.07	



Exterior Improvements		32
Bases, Ballasts, and Paving		32 10
Rigid Paving		32 13

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MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
32 13 13 33-0004	SY 5" 4,500 PSI Concrete Paving Assembly.....	83.76	
	For 2,500 PSI Concrete, Deduct	-5.98	
	For 3,000 PSI Concrete, Deduct	-3.90	
	For 3,500 PSI Concrete, Deduct	-3.12	
	For 4,000 PSI Concrete, Deduct	-1.35	
	For 5,000 PSI Concrete, Add	0.83	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	6.76	
	For <12' Wide Pass, Add	13.14	
	For 24' Or Greater Wide Pass, Deduct	-16.75	
	For Air Entrainment, Add	2.60	
	For Slipforming, Deduct	-8.38	
	For Up To 100, Add	29.45	
	For >100 To 250, Add	17.33	
	For >250 To 500, Add	8.66	
	For >1,000 To 2,000, Deduct	-2.60	
	For >2,000 To 5,000, Deduct	-4.69	
	For >5,000 To 10,000, Deduct	-6.79	
	For >10,000 To 20,000, Deduct	-8.88	
	For >20,000, Deduct	-10.98	
32 13 13 33-0005	SY 6" 4,500 PSI Concrete Paving Assembly.....	89.25	
	For 2,500 PSI Concrete, Deduct	-6.31	
	For 3,000 PSI Concrete, Deduct	-4.11	
	For 3,500 PSI Concrete, Deduct	-3.29	
	For 4,000 PSI Concrete, Deduct	-1.43	
	For 5,000 PSI Concrete, Add	0.88	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	7.13	
	For <12' Wide Pass, Add	14.08	
	For 24' Or Greater Wide Pass, Deduct	-17.85	
	For Air Entrainment, Add	2.74	
	For Slipforming, Deduct	-8.93	
	For Up To 100, Add	31.61	
	For >100 To 250, Add	18.55	
	For >250 To 500, Add	9.27	
	For >1,000 To 2,000, Deduct	-2.74	
	For >2,000 To 5,000, Deduct	-4.97	
	For >5,000 To 10,000, Deduct	-7.21	
	For >10,000 To 20,000, Deduct	-9.44	
	For >20,000, Deduct	-11.67	
32 13 13 33-0006	SY 7" 4,500 PSI Concrete Paving Assembly.....	107.29	
	For 2,500 PSI Concrete, Deduct	-7.96	
	For 3,000 PSI Concrete, Deduct	-5.19	
	For 3,500 PSI Concrete, Deduct	-4.15	
	For 4,000 PSI Concrete, Deduct	-1.80	
	For 5,000 PSI Concrete, Add	1.11	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	8.99	
	For <12' Wide Pass, Add	16.44	
	For 24' Or Greater Wide Pass, Deduct	-21.46	
	For Air Entrainment, Add	3.46	
	For Slipforming, Deduct	-10.73	
	For Up To 100, Add	36.70	
	For >100 To 250, Add	21.81	
	For >250 To 500, Add	10.90	
	For >1,000 To 2,000, Deduct	-3.46	
	For >2,000 To 5,000, Deduct	-6.14	
	For >5,000 To 10,000, Deduct	-8.82	
	For >10,000 To 20,000, Deduct	-11.51	
	For >20,000, Deduct	-14.19	
32 13 13 33-0007	SY 8" 4,500 PSI Concrete Paving Assembly.....	121.66	
	For 2,500 PSI Concrete, Deduct	-8.73	
	For 3,000 PSI Concrete, Deduct	-5.70	
	For 3,500 PSI Concrete, Deduct	-4.56	
	For 4,000 PSI Concrete, Deduct	-1.97	
	For 5,000 PSI Concrete, Add	1.22	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	9.87	
	For <12' Wide Pass, Add	19.02	
	For 24' Or Greater Wide Pass, Deduct	-24.33	
	For Air Entrainment, Add	3.80	
	For Slipforming, Deduct	-12.17	
	For Up To 100, Add	42.62	
	For >100 To 250, Add	25.11	
	For >250 To 500, Add	12.55	
	For >1,000 To 2,000, Deduct	-3.80	
	For >2,000 To 5,000, Deduct	-6.84	
	For >5,000 To 10,000, Deduct	-9.88	
	For >10,000 To 20,000, Deduct	-12.92	
	For >20,000, Deduct	-15.96	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 13 Rigid Paving**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 13 13 33-0008 SY 9" 4,500 PSI Concrete Paving Assembly	138.23	
For 2,500 PSI Concrete, Deduct	-10.09	
For 3,000 PSI Concrete, Deduct	-6.58	
For 3,500 PSI Concrete, Deduct	-5.27	
For 4,000 PSI Concrete, Deduct	-2.28	
For 5,000 PSI Concrete, Add	1.40	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	11.41	
For <12' Wide Pass, Add	21.40	
For 24' Or Greater Wide Pass, Deduct	-27.65	
For Air Entrainment, Add	4.39	
For Slipforming, Deduct	-13.82	
For Up To 100, Add	47.84	
For >100 To 250, Add	28.31	
For >250 To 500, Add	14.15	
For >1,000 To 2,000, Deduct	-4.39	
For >2,000 To 5,000, Deduct	-7.84	
For >5,000 To 10,000, Deduct	-11.30	
For >10,000 To 20,000, Deduct	-14.75	
For >20,000, Deduct	-18.21	
32 13 13 33-0009 SY 10" 4,500 PSI Concrete Paving Assembly	153.66	
For 2,500 PSI Concrete, Deduct	-11.10	
For 3,000 PSI Concrete, Deduct	-7.24	
For 3,500 PSI Concrete, Deduct	-5.79	
For 4,000 PSI Concrete, Deduct	-2.51	
For 5,000 PSI Concrete, Add	1.54	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	12.55	
For <12' Wide Pass, Add	23.94	
For 24' Or Greater Wide Pass, Deduct	-30.73	
For Air Entrainment, Add	4.83	
For Slipforming, Deduct	-15.37	
For Up To 100, Add	53.59	
For >100 To 250, Add	31.62	
For >250 To 500, Add	15.81	
For >1,000 To 2,000, Deduct	-4.83	
For >2,000 To 5,000, Deduct	-8.67	
For >5,000 To 10,000, Deduct	-12.51	
For >10,000 To 20,000, Deduct	-16.35	
For >20,000, Deduct	-20.19	
32 13 13 33-0010 SY 12" 4,500 PSI Concrete Paving Assembly	182.87	
For 2,500 PSI Concrete, Deduct	-13.14	
For 3,000 PSI Concrete, Deduct	-8.57	
For 3,500 PSI Concrete, Deduct	-6.86	
For 4,000 PSI Concrete, Deduct	-2.97	
For 5,000 PSI Concrete, Add	1.83	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	14.86	
For <12' Wide Pass, Add	28.57	
For 24' Or Greater Wide Pass, Deduct	-36.57	
For Air Entrainment, Add	5.72	
For Slipforming, Deduct	-18.29	
For Up To 100, Add	64.00	
For >100 To 250, Add	37.72	
For >250 To 500, Add	18.86	
For >1,000 To 2,000, Deduct	-5.72	
For >2,000 To 5,000, Deduct	-10.29	
For >5,000 To 10,000, Deduct	-14.86	
For >10,000 To 20,000, Deduct	-19.43	
For >20,000, Deduct	-24.00	
32 13 13 33-0011 SY 15" 4,500 PSI Concrete Paving Assembly	231.37	
For 2,500 PSI Concrete, Deduct	-16.14	
For 3,000 PSI Concrete, Deduct	-10.53	
For 3,500 PSI Concrete, Deduct	-8.42	
For 4,000 PSI Concrete, Deduct	-3.65	
For 5,000 PSI Concrete, Add	2.25	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	18.25	
For <12' Wide Pass, Add	36.79	
For 24' Or Greater Wide Pass, Deduct	-46.27	
For Air Entrainment, Add	7.02	
For Slipforming, Deduct	-23.14	
For Up To 100, Add	82.68	
For >100 To 250, Add	48.36	
For >250 To 500, Add	24.18	
For >1,000 To 2,000, Deduct	-7.02	
For >2,000 To 5,000, Deduct	-12.80	
For >5,000 To 10,000, Deduct	-18.59	
For >10,000 To 20,000, Deduct	-24.37	
For >20,000, Deduct	-30.16	

32 13 16 Decorative Concrete Paving (32 13)**32 13 16 13 Patterned Concrete Paving** (32 13 16)

32 13 16 13-0001 SF For Patterned (Tactile) Finish In Concrete Sidewalk.....	4.91

32 13 43 Pervious Concrete Paving (32 13)



Exterior Improvements		32
Bases, Ballasts, and Paving		32 10
Rigid Paving		32 13

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 13 43 00-0001 Pervious Concrete Assembly (32 13 43) Note: Pervious concrete is a special concrete mix with high porosity that allows water to pass through it. For paving and sidewalks.		
32 13 43 00-0002 SF 6" Thick, 15-25% Porosity, Minimum 115 PCF, Pervious Concrete Paving.....	17.19	
Note: Includes filter fabric, concrete, curing, finish, and control joints. Excludes excavation, base, forms and expansion joints along existing.		
For >5,000 To 30,000, Deduct	-1.83	
For >30,000 To 100,000, Deduct	-3.33	
For >100,000, Deduct	-4.13	
32 13 43 00-0003 SF 9" Thick, 15-25% Porosity, Minimum 115 PCF, Pervious Concrete Paving.....	21.87	
Note: Includes filter fabric, concrete, curing, finish, and control joints. Excludes excavation, base, forms and expansion joints along existing.		
For >5,000 To 30,000, Deduct	-2.26	
For >30,000 To 100,000, Deduct	-4.04	
For >100,000, Deduct	-5.01	
32 13 73 Concrete Paving Joint Sealants (32 13)		
32 13 73 13 Fuel-Resistant Concrete Paving Joint Sealants (32 13 73)		
32 13 73 13-0001 Concrete Pavement Joint And Crack Repair (32 13 73 13) Note: Includes cutting joint, removal of existing material, sweeping and cleaning area.		
32 13 73 13-0002 LF Pavement Sealing, Roads Resealing Joints In Concrete Pavements For Roads.....	7.88	
32 13 73 16 Field-Molded Concrete Paving Joint Sealants (32 13 73)		
32 13 73 16-0001 Preformed Elastomeric Concrete Pavement Joint And Crack Repair (32 13 73 16) Note: Includes cutting joint, removal of existing material, sweeping and cleaning area.		
32 13 73 16-0002 LF Joint Sealing, Concrete Pavement Preformed Elastomeric.....	13.30	
32 13 73 19 Compression Concrete Paving Joint Sealants (32 13 73)		
32 13 73 19-0001 Silicone Joint Sealant For Concrete Pavement (32 13 73 19) Note: Installation includes high pressure water wash, sand blast, sweeping, cleaning area, backer rod and Dow Corning 888 silicone sealant. Demolition includes removal of existing material where saw cutting is not required. Excludes saw cutting.		
32 13 73 19-0002 LF 1/4" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement.....	10.45	2.47
32 13 73 19-0003 LF 3/8" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement.....	10.92	2.51
32 13 73 19-0004 LF 1/2" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement.....	11.45	2.57
32 13 73 19-0005 LF 3/4" x 3/8" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement.....	13.17	2.61
32 13 73 19-0006 LF 1" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement.....	15.31	2.68
32 13 73 19-0007 LF 1-1/2" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement.....	18.16	2.72
32 13 73 19-0008 LF 2" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement.....	22.28	2.78
32 14 Unit Paving (32 10)		
32 14 09 Paver Restraints (32 14)		
32 14 09 00-0001 Paver Restraints (32 14 09) Note: Paver restraints are used along the edge of a group of pavers as a locking border. Flexible or rigid sections. Includes stakes and connecting devices. Excludes pavers, bedding, excavation, base course and compaction.		
32 14 09 00-0002 LF Up To 2" Height, Vinyl Paver Restraint.....	4.81	1.03
For >1,000 To 2,000, Deduct	-0.70	
For >2,000 To 4,000, Deduct	-1.01	
For >4,000, Deduct	-1.30	
32 14 09 00-0003 LF Up To 2" Height, Galvanized Steel Paver Restraint.....	5.24	1.03
For >500 To 1,000, Deduct	-0.18	
For >1,000 To 2,000, Deduct	-0.36	
For >2,000, Deduct	-0.54	
32 14 09 00-0004 LF Up To 1" Height, Aluminum Paver Restraint.....	5.03	1.03
For >250 To 500, Deduct	-0.34	
For >500 To 1,000, Deduct	-0.51	
For >1,000 To 1,500, Deduct	-0.85	
32 14 09 00-0005 LF >1" To 2" Height, Aluminum Paver Restraint.....	5.98	1.03
For >250 To 500, Deduct	-0.43	
For >500 To 1,000, Deduct	-0.65	
For >1,000 To 1,500, Deduct	-1.09	
32 14 09 00-0006 LF >2" To 3" Height, Aluminum Paver Restraint.....	7.80	1.03
For >250 To 500, Deduct	-0.62	
For >500 To 1,000, Deduct	-0.92	
For >1,000 To 1,500, Deduct	-1.54	
32 14 09 00-0007 LF >3" To 4" Height, Aluminum Paver Restraint.....	9.20	1.03
For >250 To 500, Deduct	-0.76	
For >500 To 1,000, Deduct	-1.13	
For >1,000 To 1,500, Deduct	-1.89	
32 14 11 Bedding for Unit Paving (32 14)		

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 14 Unit Paving**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 14 11 00-0001		Bedding For Brick, Precast Concrete Paver And Stone Sidewalk (32 14 11) Note: Includes delivery up to 15 miles from the closest approved source, the cost for loading, and dumping. See CSI section 01 74 19 00-0029 for hauling greater than 15 miles.		
32 14 11 00-0002	SF	1" To 2" Sand Bedding, Screeded For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	1.06 0.47 0.14 -0.08 -0.13	
32 14 11 00-0003	SF	1" To 2" Stone Dust Bedding, Screeded For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	1.26 0.52 0.15 -0.08 -0.14	
32 14 11 00-0004	SF	3" Stone Dust Bedding, Screeded For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	1.61 0.65 0.18 -0.10 -0.16	
32 14 11 00-0005	SF	4" Stone Dust Bedding, Screeded For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	2.05 0.81 0.22 -0.12 -0.20	
32 14 11 00-0006	SF	1" Mortar Bedding For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	3.56 1.56 0.45 -0.27 -0.43	
32 14 11 00-0007	SF	2" Mortar Bedding For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	5.34 2.24 0.63 -0.36 -0.59	
32 14 11 00-0008	SF	Thin-Set Latex Portland Cement Mortar For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	1.75 0.80 0.23 -0.14 -0.23	
32 14 13		Precast Concrete Unit Paving (32 14)		
32 14 13 16		Precast Concrete Unit Paving Slabs (32 14 13)		
32 14 13 16-0001		Precast Concrete Paver Sidewalk (32 14 13 16) Note: Square, rectangular, or interlocking pervious pavers. Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course.		
32 14 13 16-0002	SF	2-3/8" Thick, Up To 32 SI Precast Concrete Paver Note: Includes 2-1/2" x 5", 4" x 4", 4" x 6", 5" x 5", 4" x 8" and other similar size pavers. For 2-3/4" Concrete Paver, Add For 3-1/8" Concrete Paver, Add For Cement/Sand Mix Or Polymeric Sand Joints, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	13.77 1.39 2.26 1.03 5.13 1.36 -0.67 -1.22	3.36
32 14 13 16-0003	SF	2-3/8" Thick, >32 to 64 SI Precast Concrete Paver Note: Includes 5" x 7", 6" x 6", 8" x 8" and other similar size pavers. For 2-3/4" Concrete Paver, Add For 3-1/8" Concrete Paver, Add For Cement/Sand Mix Or Polymeric Sand Joints, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	13.16 1.36 2.22 0.96 4.82 1.27 -0.61 -1.13	3.06
32 14 13 16-0004	SF	2-3/8" Thick, >64 to 144 SI Precast Concrete Paver Note: Includes 6" x 12", 12" x 12" and other similar size pavers. For 2-3/4" Concrete Paver, Add For 3-1/8" Concrete Paver, Add For Cement/Sand Mix Or Polymeric Sand Joints, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	12.59 1.33 2.17 0.91 4.54 1.19 -0.56 -1.04	2.43
32 14 13 16-0005	SF	2-3/8" Thick, >144 SI Precast Concrete Paver Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24", 24" x 36", 36" x 36" and other similar size pavers. For 2-3/4" Concrete Paver, Add For 3-1/8" Concrete Paver, Add For Cement/Sand Mix Or Polymeric Sand Joints, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	12.09 1.31 2.14 0.86 4.29 1.11 -0.51 -0.97	2.53



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Unit Paving			32 14

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 14 13 16-0006	SF		2-3/8" Thick, Precast Concrete Paver, Combinations And Patterns Note: Patterns made by combining pavers from two or more size groups. For 2-3/4" Concrete Paver, Add For 3-1/8" Concrete Paver, Add For Cement/Sand Mix Or Polymeric Sand Joints, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	12.87 1.35 2.20 0.94 4.68 1.23 -0.58 -1.09	2.91
32 14 13 19 Porous Precast Concrete Unit Paving (32 14 13)					
32 14 13 19-0001			Turf Block (32 14 13 19) Note: Grass grid, open-cell unit paver, geoblock.		
32 14 13 19-0002	SF		3-1/8" Thick, Precast Concrete Turf Block For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	12.26 4.53 1.20 -0.58 -1.07	2.91
32 14 16 Brick Unit Paving (32 14)					
32 14 16 00-0001			Brick Paver Sidewalk (32 14 16) Note: Includes sand joints. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course.		
32 14 16 00-0002	SF		4" x 8" x 2-1/4" Brick Paver, Laid Flat For 1-3/8" Thick Paver, Deduct For 2-3/4" Thick Paver (Vehicular), Add For Cement/Sand Mix Or Polymeric Sand Joints, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	15.18 -3.29 7.54 1.10 5.48 1.43 -0.67 -1.26	3.36
32 14 16 00-0003	SF		4" x 8" x 2-1/4" Brick, Laid On Edge For 1-3/8" Thick Paver, Deduct For 2-3/4" Thick Paver (Vehicular), Add For Cement/Sand Mix Or Polymeric Sand Joints, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	22.66 -5.63 13.18 1.52 7.58 1.90 -0.77 -1.60	3.83
32 14 33 Plastic Paving (32 14)					
32 14 33 13 Permeable Plastic Paving (32 14 33)					
32 14 33 13-0001			Turf Block Plastic Paving (32 14 33 13)		
32 14 33 13-0002	SF		4" Thick Recycled Polyvinyl Chloride (PVC) Plastic Turf Block For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	18.57 6.10 1.51 -0.58 -1.26	2.91
32 14 40 Stone Paving (32 14)					
32 14 40 00-0001			Slate Paver Sidewalk (32 14 40) Note: Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.		
32 14 40 00-0002	SF		1" Thick, Up to 54 SI Slate Paver Note: Includes 3" x 9", 6" x 6", 6" x 9" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 1/4" Thick Paver, Deduct For 1/2" Thick Paver, Deduct For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	15.88 1.07 -7.99 -5.58 5.36 1.35 -0.56 -1.14	2.79
32 14 40 00-0003	SF		1" Thick, >54 to 108 SI Slate Paver Note: Includes 6" x 12", 9" x 9", 6" x 18", 9" x 12" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 1/4" Thick Paver, Deduct For 1/2" Thick Paver, Deduct For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	15.38 1.02 -7.87 -5.51 5.11 1.28 -0.51 -1.07	2.53

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 14 Unit Paving**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 14 40 00-0004	SF		1" Thick, >108 to 216 SI Slate Paver Note: Includes 12" x 12", 6" x 24", 9" x 18", 9" x 24", 12" x 18" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 1/4" Thick Paver, Deduct For 1/2" Thick Paver, Deduct For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	14.50 0.93 -7.65 -5.37 4.67 1.14 -0.42 -0.94	2.09
32 14 40 00-0005	SF		1" Thick, >216 SI Slate Paver Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24", 24" x 36", 36" x 36" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 1/4" Thick Paver, Deduct For 1/2" Thick Paver, Deduct For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	14.12 0.90 -7.55 -5.32 4.48 1.09 -0.38 -0.88	1.90
32 14 40 00-0006	SF		1" Thick, Slate Paver, Combinations And Patterns Note: Patterns made by combining pavers from two or more size groups. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 1/4" Thick Paver, Deduct For 1/2" Thick Paver, Deduct For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	14.90 0.97 -7.75 -5.43 4.87 1.20 -0.46 -1.00	2.29
32 14 40 00-0007 Granite Paver Sidewalk (32 14 40)					
Note: Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.					
32 14 40 00-0008	SF		1" Thick, Up to 54 SI Granite Paver Note: Includes 3" x 9", 6" x 6", 6" x 9" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 2" Granite Paver, Add For 3" Granite Paver, Add For 4" Granite Paver, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	22.32 1.39 1.12 2.23 2.51 6.97 1.67 -0.56 -1.34	2.79
32 14 40 00-0009	SF		1" Thick, >54 to 108 SI Granite Paver Note: Includes 6" x 12", 9" x 9", 6" x 18", 9" x 12" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 2" Granite Paver, Add For 3" Granite Paver, Add For 4" Granite Paver, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	21.82 1.34 1.09 2.18 2.44 6.72 1.60 -0.51 -1.26	2.53
32 14 40 00-0010	SF		1" Thick, >108 to 216 SI Granite Paver Note: Includes 12" x 12", 6" x 24", 9" x 18", 9" x 24", 12" x 18" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 2" Granite Paver, Add For 3" Granite Paver, Add For 4" Granite Paver, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	20.94 1.26 1.05 2.09 2.30 6.28 1.47 -0.42 -1.13	2.09
32 14 40 00-0011	SF		1" Thick, >216 SI Granite Paver Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24" and other similar size pavers. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 2" Granite Paver, Add For 3" Granite Paver, Add For 4" Granite Paver, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	20.56 1.22 1.03 2.06 2.25 6.09 1.41 -0.38 -1.07	1.90
32 14 40 00-0012	SF		1" Thick, Granite Paver, Combinations And Patterns Note: Patterns made by combining pavers from two or more size groups. For Cement/Sand Mix Or Polymeric Sand Joints, Add For 2" Granite Paver, Add For 3" Granite Paver, Add For 4" Granite Paver, Add For Up To 100, Add For >100 To 500, Add For >1,000 To 5,000, Deduct For >5,000, Deduct	21.34 1.30 1.07 2.13 2.36 6.48 1.53 -0.46 -1.19	2.29

32 15 Aggregate Surfacing (32 10)



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Aggregate Surfacing			32 15

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 15 40		Crushed Stone Surfacing (32 15) Note: Includes delivery up to 15 miles from supplier, placement, rolling and compaction water. See CSI section 01 74 19 00-0029 for hauling greater than 15 miles.		
32 15 40 00-0001		Gravel Surfacing And Spreading (32 15 40) Note: Includes delivered material, placement, rolling and compaction water.		
32 15 40 00-0002	CY	Gravel Surfacing And Spreading	87.54	
32 15 40 00-0003		Limestone Screenings (32 15 40) Note: Includes delivered material, placement, rolling and compaction water. For trail maintenance.		
32 15 40 00-0004	CY	Limestone Screenings For Trail	112.57	
32 15 40 00-0005		Decomposed Granite (32 15 40) Note: Includes delivered material, placement, rolling and compaction water.		
32 15 40 00-0006	SY	3" To 4" Thick Decomposed Granite Screenings With Stabilizer Pathway	18.67	
		Note: Placed in 2 lifts.		
		For Additional 2" Lift	9.34	
		For >45 To 180, Deduct	-1.24	
		For >180 To 450, Deduct	-1.55	
		For >450, Deduct	-1.86	
32 16		Curbs, Gutters, Sidewalks, and Driveways (32 16)		
32 16 13		Curbs and Gutters (32 16) Note: Includes transitions. Demolition Includes two saw cuts (each end) of curbs and gutters for lengths up to 100'. See CSI section 02 41 19 13-0001 for additional saw cuts within the 100'.		
32 16 13 13		Cast-In-Place Concrete Curbs and Gutters (32 16 13) Note: Includes concrete, forms, rebar (where required), rebar chairs (where necessary), expansion joints, finish and curing.		
32 16 13 13-0001		Cast In Place Concrete Curb And Gutter (32 16 13 13) Note: Includes concrete, forms, rebar, chairs (where necessary), transitions, expansion joints, finish and curing.		
32 16 13 13-0002	LF	6" x 12" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	29.69	12.78
		For Up To 20, Add	20.05	
		For >20 To 50, Add	11.15	
		For >50 To 100, Add	4.45	
		For >500 To 1,000, Deduct	-3.72	
		For >1,000, Deduct	-6.33	
		For Mountable Or Rolled Curb And Gutter, Add	1.84	
32 16 13 13-0003	LF	6" x 12" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	32.36	17.04
		For Up To 20, Add	21.87	
		For >20 To 50, Add	12.16	
		For >50 To 100, Add	4.65	
		For >500 To 1,000, Deduct	-4.07	
		For >1,000, Deduct	-6.91	
		For Mountable Or Rolled Curb And Gutter, Add	2.02	
32 16 13 13-0004	LF	6" x 18" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	37.83	14.17
		For Up To 20, Add	25.52	
		For >20 To 50, Add	14.17	
		For >50 To 100, Add	5.67	
		For >500 To 1,000, Deduct	-4.71	
		For >1,000, Deduct	-8.02	
		For Mountable Or Rolled Curb And Gutter, Add	2.30	
32 16 13 13-0005	LF	6" x 18" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	41.75	15.77
		For Up To 20, Add	28.19	
		For >20 To 50, Add	15.67	
		For >50 To 100, Add	6.26	
		For >500 To 1,000, Deduct	-5.23	
		For >1,000, Deduct	-8.89	
		For Mountable Or Rolled Curb And Gutter, Add	2.57	
32 16 13 13-0006	LF	6" x 24" Cast In Place Concrete Gutter With 6" Curb And Face - Straight (Type A3-6).....	45.97	17.04
		For Up To 20, Add	30.99	
		For >20 To 50, Add	17.20	
		For >50 To 100, Add	6.90	
		For >500 To 1,000, Deduct	-5.71	
		For >1,000, Deduct	-9.71	
		For Mountable Or Rolled Curb And Gutter, Add	2.75	
32 16 13 13-0007	LF	6" x 24" Cast In Place Concrete Gutter With 6" Curb And Face - Radius (Type A3-6)	51.14	19.18
		For Up To 20, Add	34.52	
		For >20 To 50, Add	19.18	
		For >50 To 100, Add	7.67	
		For >500 To 1,000, Deduct	-6.39	
		For >1,000, Deduct	-10.86	
		For Mountable Or Rolled Curb And Gutter, Add	3.13	
32 16 13 13-0008	LF	6" x 30" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	54.66	20.24
		For Up To 20, Add	36.84	
		For >20 To 50, Add	20.45	
		For >50 To 100, Add	8.20	
		For >500 To 1,000, Deduct	-6.78	
		For >1,000, Deduct	-11.54	
		For Mountable Or Rolled Curb And Gutter, Add	3.27	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 16 Curbs, Gutters, Sidewalks, and Driveways**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0009	LF		6" x 30" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	60.01	22.37
			For Up To 20, Add	40.48	
			For >20 To 50, Add	22.48	
			For >50 To 100, Add	9.00	
			For >500 To 1,000, Deduct	-7.47	
			For >1,000, Deduct	-12.71	
			For Mountable Or Rolled Curb And Gutter, Add	3.63	
32 16 13 13-0010	LF		6" x 36" Cast In Place Concrete Gutter With 6" Curb And Face - Straight	63.34	23.43
			For Up To 20, Add	42.69	
			For >20 To 50, Add	23.69	
			For >50 To 100, Add	9.50	
			For >500 To 1,000, Deduct	-7.85	
			For >1,000, Deduct	-13.36	
			For Mountable Or Rolled Curb And Gutter, Add	3.78	
32 16 13 13-0011	LF		6" x 36" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	68.89	25.57
			For Up To 20, Add	46.45	
			For >20 To 50, Add	25.78	
			For >50 To 100, Add	10.33	
			For >500 To 1,000, Deduct	-8.56	
			For >1,000, Deduct	-14.56	
			For Mountable Or Rolled Curb And Gutter, Add	4.14	
32 16 13 13-0012	LF		6" x 42" Cast In Place Concrete Gutter With 6" Curb And Face - Straight	72.03	26.63
			For Up To 20, Add	48.54	
			For >20 To 50, Add	26.94	
			For >50 To 100, Add	10.80	
			For >500 To 1,000, Deduct	-8.93	
			For >1,000, Deduct	-15.19	
			For Mountable Or Rolled Curb And Gutter, Add	4.29	
32 16 13 13-0013	LF		6" x 42" Cast In Place Concrete Gutter With 6" Curb And Face - Radius	79.88	29.82
			For Up To 20, Add	53.89	
			For >20 To 50, Add	29.93	
			For >50 To 100, Add	11.98	
			For >500 To 1,000, Deduct	-9.96	
			For >1,000, Deduct	-16.94	
			For Mountable Or Rolled Curb And Gutter, Add	4.85	
32 16 13 13-0014 Cast In Place Concrete Curbs (32 16 13 13)					
Note: Includes delivered concrete, forms, rebar, chairs (where necessary), expansion joints, finish and curing.					
32 16 13 13-0015	LF		6" x 12" Cast In Place Concrete Curb (Type A1-6)	22.05	10.95
			For Mountable Curb, Add	1.50	
			For Up To 20, Add	13.17	
			For >20 To 50, Add	7.46	
			For >50 To 100, Add	2.85	
			For >500 To 1,000, Deduct	-2.85	
			For >1,000, Deduct	-4.83	
32 16 13 13-0016	LF		6" x 12" Cast In Place Concrete Curb - Radius (Type A1-6)	25.25	12.59
			For Mountable Curb, Add	1.75	
			For Up To 20, Add	15.18	
			For >20 To 50, Add	8.60	
			For >50 To 100, Add	3.29	
			For >500 To 1,000, Deduct	-3.29	
			For >1,000, Deduct	-5.56	
32 16 13 13-0017	LF		6" x 14" Cast In Place Concrete Curb (Type A1-8)	24.29	10.95
			For Mountable Curb, Add	1.63	
			For Up To 20, Add	14.43	
			For >20 To 50, Add	8.17	
			For >50 To 100, Add	3.13	
			For >500 To 1,000, Deduct	-3.13	
			For >1,000, Deduct	-5.30	
32 16 13 13-0018	LF		6" x 14" Cast In Place Concrete Curb - Radius (Type A1-8)	27.81	12.59
			For Mountable Curb, Add	1.91	
			For Up To 20, Add	16.64	
			For >20 To 50, Add	9.43	
			For >50 To 100, Add	3.61	
			For >500 To 1,000, Deduct	-3.61	
			For >1,000, Deduct	-6.11	
32 16 13 13-0019	LF		6" x 16" Cast In Place Concrete Curb	26.80	10.95
			For Mountable Curb, Add	1.75	
			For Up To 20, Add	15.76	
			For >20 To 50, Add	8.92	
			For >50 To 100, Add	3.42	
			For >500 To 1,000, Deduct	-3.42	
			For >1,000, Deduct	-5.80	
32 16 13 13-0020	LF		6" x 16" Cast In Place Concrete Curb - Radius	30.60	16.42
			For Mountable Curb, Add	2.05	
			For Up To 20, Add	18.16	
			For >20 To 50, Add	10.28	
			For >50 To 100, Add	3.94	
			For >500 To 1,000, Deduct	-3.94	
			For >1,000, Deduct	-6.67	



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Curbs, Gutters, Sidewalks, and Driveways			32 16

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0021	LF	6" x 18" Cast In Place Concrete Curb.....	28.82	10.95	
		For Mountable Curb, Add	1.84		
		For Up To 20, Add	16.82		
		For >20 To 50, Add	9.52		
		For >50 To 100, Add	3.65		
		For >500 To 1,000, Deduct	-3.65		
		For >1,000, Deduct	-6.20		
32 16 13 13-0022	LF	6" x 18" Cast In Place Concrete Curb - Radius.....	32.55	12.59	
		For Mountable Curb, Add	2.11		
		For Up To 20, Add	19.10		
		For >20 To 50, Add	10.81		
		For >50 To 100, Add	4.15		
		For >500 To 1,000, Deduct	-4.15		
		For >1,000, Deduct	-7.03		
32 16 13 13-0023	LF	6" x 24" Cast In Place Concrete Curb.....	33.34	12.04	
		For Mountable Curb, Add	1.94		
		For Up To 20, Add	18.83		
		For >20 To 50, Add	10.63		
		For >50 To 100, Add	4.10		
		For >500 To 1,000, Deduct	-4.10		
		For >1,000, Deduct	-6.98		
32 16 13 13-0024	LF	6" x 24" Cast In Place Concrete Curb - Radius.....	37.28	13.68	
		For Mountable Curb, Add	2.19		
		For Up To 20, Add	21.14		
		For >20 To 50, Add	11.94		
		For >50 To 100, Add	4.60		
		For >500 To 1,000, Deduct	-4.60		
		For >1,000, Deduct	-7.83		
32 16 13 13-0025	LF	12" x 24" Cast In Place Concrete Curb.....	44.71	13.68	
		For Mountable Curb, Add	1.78		
		For Up To 20, Add	22.63		
		For >20 To 50, Add	12.68		
		For >50 To 100, Add	4.97		
		For >500 To 1,000, Deduct	-4.97		
		For >1,000, Deduct	-8.58		
32 16 13 13-0026	LF	12" x 24" Cast In Place Concrete Curb - Radius.....	49.73	15.32	
		For Mountable Curb, Add	2.02		
		For Up To 20, Add	25.27		
		For >20 To 50, Add	14.17		
		For >50 To 100, Add	5.55		
		For >500 To 1,000, Deduct	-5.55		
		For >1,000, Deduct	-9.57		
32 16 13 13-0027	EA	Additional Finish For Handicap Drop Section In Curb.....	82.09		
32 16 13 13-0028		Concrete Band, Cast In Place (32 16 13 13)			
		Note: Includes delivered concrete, forms, rebar, chairs (where necessary), expansion joints, finish and curing.			
32 16 13 13-0029	LF	6" x 6" Concrete Band	19.97	10.95	
		Note: Excludes base course.			
		For Up To 20, Add	12.75		
		For >20 To 50, Add	7.25		
		For >50 To 100, Add	2.75		
		For >500 To 1,000, Deduct	-2.75		
		For >1,000, Deduct	-4.62		
32 16 13 14		Machine Formed, Slip Form Curbs (32 16 13)			
		Note: Includes delivered concrete, steel, expansion joints and finish.			
32 16 13 14-0001	LF	6" x 12" Straight Concrete Curb, Machine Formed.....	16.32		
32 16 13 14-0002	LF	6" x 12" Curved Concrete Curb, Machine Formed.....	21.23		
32 16 13 14-0003	LF	6" x 18" Straight Concrete Curb, Machine Formed.....	21.73		
32 16 13 14-0004	LF	6" x 18" Curved Concrete Curb, Machine Formed.....	27.15		
32 16 13 16		Steel Faced Curbs (32 16 13)			
		Note: Fabrication includes handicap and other curb access cuts.			
32 16 13 16-0001		Sidewalk/Curb Facing (32 16 13 16)			
		Note: Fabrication includes handicap and other curb access cuts.			
32 16 13 16-0002	LF	3" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	16.47	5.31	
		For Curved Section, Add	3.63		
32 16 13 16-0003	LF	4" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	18.13	6.04	
		For Curved Section, Add	4.08		
32 16 13 16-0004	LF	6" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	24.38	6.76	
		For Curved Section, Add	4.99		
32 16 13 16-0005	LF	8" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	29.90	7.61	
		For Curved Section, Add	5.83		
32 16 13 16-0006	LF	10" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	36.53	8.33	
		For Curved Section, Add	6.77		
32 16 13 16-0007	LF	12" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	47.75	10.63	
		For Curved Section, Add	8.74		
32 16 13 16-0008	LF	13" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center	55.12	13.77	
		For Curved Section, Add	10.65		
32 16 13 16-0009	EA	Sidewalk/Curb Steel Facing, Pedestrian Ramps, Two Drops Per Section.....	171.72		

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 16 Curbs, Gutters, Sidewalks, and Driveways**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 16 13 19 Cast-In-Place Concrete Drainage Ditches (32 16 13 19)

Note: Includes concrete, forms, rebar (where required), rebar chairs (where necessary), expansion joints, finish and curing.

32 16 13 19-0001 Valley Gutter, Cast In Place (32 16 13 19)

Note: Includes concrete, forms, rebar, expansion joints, finish and curing.

32 16 13 19-0002	LF	2' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	25.63
		For Up To 20, Add	10.69
		For >20 To 50, Add	5.90
		For >50 To 100, Add	2.39
		For >500 To 1,000, Deduct	-2.39
		For >1,000, Deduct	-4.23
32 16 13 19-0003	LF	2-1/2' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	31.53
		For Up To 20, Add	13.01
		For >20 To 50, Add	7.17
		For >50 To 100, Add	2.92
		For >500 To 1,000, Deduct	-2.92
		For >1,000, Deduct	-5.16
32 16 13 19-0004	LF	3' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	37.37
		For Up To 20, Add	15.28
		For >20 To 50, Add	8.42
		For >50 To 100, Add	3.43
		For >500 To 1,000, Deduct	-3.43
		For >1,000, Deduct	-6.08
32 16 13 19-0005	LF	3-1/2' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	43.19
		For Up To 20, Add	17.54
		For >20 To 50, Add	9.66
		For >50 To 100, Add	3.94
		For >500 To 1,000, Deduct	-3.94
		For >1,000, Deduct	-6.99
32 16 13 19-0006	LF	4' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	49.01
		For Up To 20, Add	19.81
		For >20 To 50, Add	10.90
		For >50 To 100, Add	4.45
		For >500 To 1,000, Deduct	-4.45
		For >1,000, Deduct	-7.90
32 16 13 19-0007	LF	5' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	58.76
		For Up To 20, Add	23.01
		For >20 To 50, Add	12.63
		For >50 To 100, Add	5.19
		For >500 To 1,000, Deduct	-5.19
		For >1,000, Deduct	-9.25
32 16 13 19-0008	LF	6' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	68.24
		For Up To 20, Add	26.01
		For >20 To 50, Add	14.24
		For >50 To 100, Add	5.89
		For >500 To 1,000, Deduct	-5.89
		For >1,000, Deduct	-10.53
32 16 13 19-0009	SF	>6' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	11.37
		For Up To 100, Add	4.33
		For >100 To 250, Add	2.37
		For >250 To 500, Add	0.98
		For >2,500 To 5,000, Deduct	-0.98
		For >5,000, Deduct	-1.76
32 16 13 19-0010	LF	2' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	28.41
		For Up To 20, Add	11.54
		For >20 To 50, Add	6.36
		For >50 To 100, Add	2.59
		For >500 To 1,000, Deduct	-2.59
		For >1,000, Deduct	-4.60
32 16 13 19-0011	LF	2-1/2' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	35.16
		For Up To 20, Add	14.18
		For >20 To 50, Add	7.81
		For >50 To 100, Add	3.19
		For >500 To 1,000, Deduct	-3.19
		For >1,000, Deduct	-5.66
32 16 13 19-0012	LF	3' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	41.50
		For Up To 20, Add	16.54
		For >20 To 50, Add	9.09
		For >50 To 100, Add	3.72
		For >500 To 1,000, Deduct	-3.72
		For >1,000, Deduct	-6.62
32 16 13 19-0013	LF	3-1/2' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	48.00
		For Up To 20, Add	19.00
		For >20 To 50, Add	10.44
		For >50 To 100, Add	4.28
		For >500 To 1,000, Deduct	-4.28
		For >1,000, Deduct	-7.62
32 16 13 19-0014	LF	4' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	54.50
		For Up To 20, Add	21.47
		For >20 To 50, Add	11.79
		For >50 To 100, Add	4.84
		For >500 To 1,000, Deduct	-4.84
		For >1,000, Deduct	-8.62



Exterior Improvements		32
Bases, Ballasts, and Paving		32 10
Curbs, Gutters, Sidewalks, and Driveways		32 16

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 19-0015	LF	5' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	65.48		
		For Up To 20, Add	24.98		
		For >20 To 50, Add	13.68		
		For >50 To 100, Add	5.65		
		For >500 To 1,000, Deduct	-5.65		
		For >1,000, Deduct	-10.11		
32 16 13 19-0016	LF	6' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	76.16		
		For Up To 20, Add	28.28		
		For >20 To 50, Add	15.45		
		For >50 To 100, Add	6.42		
		For >500 To 1,000, Deduct	-6.42		
		For >1,000, Deduct	-11.53		
32 16 13 19-0017	SF	>6' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	12.69		
		For Up To 100, Add	4.71		
		For >100 To 250, Add	2.57		
		For >250 To 500, Add	1.07		
		For >2,500 To 5,000, Deduct	-1.07		
		For >5,000, Deduct	-1.92		
32 16 13 19-0018	LF	2' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	28.35		
		For Up To 20, Add	11.84		
		For >20 To 50, Add	6.53		
		For >50 To 100, Add	2.65		
		For >500 To 1,000, Deduct	-2.65		
		For >1,000, Deduct	-4.68		
32 16 13 19-0019	LF	2-1/2' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	34.91		
		For Up To 20, Add	14.42		
		For >20 To 50, Add	7.96		
		For >50 To 100, Add	3.23		
		For >500 To 1,000, Deduct	-3.23		
		For >1,000, Deduct	-5.72		
32 16 13 19-0020	LF	3' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	41.37		
		For Up To 20, Add	16.94		
		For >20 To 50, Add	9.34		
		For >50 To 100, Add	3.80		
		For >500 To 1,000, Deduct	-3.80		
		For >1,000, Deduct	-6.74		
32 16 13 19-0021	LF	3-1/2' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	47.83		
		For Up To 20, Add	19.46		
		For >20 To 50, Add	10.72		
		For >50 To 100, Add	4.37		
		For >500 To 1,000, Deduct	-4.37		
		For >1,000, Deduct	-7.75		
32 16 13 19-0022	LF	4' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	54.30		
		For Up To 20, Add	21.99		
		For >20 To 50, Add	12.11		
		For >50 To 100, Add	4.94		
		For >500 To 1,000, Deduct	-4.94		
		For >1,000, Deduct	-8.77		
32 16 13 19-0023	LF	5' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	65.08		
32 16 13 19-0024	LF	6' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	75.54		
32 16 13 19-0025	SF	>6' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	12.59		
		For Up To 100, Add	4.81		
		For >100 To 250, Add	2.63		
		For >250 To 500, Add	1.09		
		For >2,500 To 5,000, Deduct	-1.09		
		For >5,000, Deduct	-1.95		

32 16 13 23 Precast Concrete Curbs and Gutters (32 16 13)

32 16 13 23-0001	LF	6" x 18" Precast Concrete Curb.....	50.63	9.89
32 16 13 23-0002	LF	6" x 18" Precast Concrete Curb, Radius.....	61.07	11.37
32 16 13 23-0003	LF	6" x 20" Precast Concrete Curb.....	54.16	9.89
32 16 13 23-0004	LF	6" x 20" Precast Concrete Curb, Radius.....	65.73	11.37
32 16 13 23-0005	LF	7" x 18" Precast Concrete Curb.....	55.76	9.89
32 16 13 23-0006	LF	7" x 18" Precast Concrete Curb, Radius.....	67.59	11.37
32 16 13 23-0007	LF	7" x 20" Precast Concrete Curb.....	59.76	9.89
32 16 13 23-0008	LF	7" x 20" Precast Concrete Curb, Radius.....	72.66	11.37

32 16 13 33 Asphalt Curbs (32 16 13)**32 16 13 33-0001 Asphalt Curbs (32 16 13 33)**

32 16 13 33-0002	LF	6" Wide x 6" High Asphalt Curb 64 LF/TON, Bituminous, Plain.....	13.32	5.44
32 16 13 33-0003	LF	8" Wide x 6" High Asphalt Curb 50 LF/TON, Bituminous, Plain.....	14.99	6.04
32 16 13 33-0004	LF	8" Wide x 8" High Asphalt Curb 44 LF/TON, Bituminous, Plain.....	16.54	6.65

32 16 13 43 Stone Curbs (32 16 13)**32 16 13 43-0001 Remove And Reset Stone And Precast Curbing (32 16 13 43)**

Note: Includes storage and cleaning.

32 16 13 43-0002	LF	Removal And Resetting Of Stone Or Precast Curbing.....	36.76	

Note: Includes storage and cleaning.

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 16 Curbs, Gutters, Sidewalks, and Driveways**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 16 23 Sidewalks (32 16)**32 16 23 00-0001 Cast In Place Concrete Sidewalk** (32 16 23)

Note: Includes finish grading, delivered concrete (up to 3500 PSI) by chute, formwork, 1/4" radius joints and edges, polyethylene sheeting, control joints, expansion joints, screed, broom finish, and curing. Excludes excavation, base, base compaction and welded wire reinforcement. For bar or fiber reinforcing, add bar or fiber reinforcing tasks. See CSI section 02 41 13 13-0000 for sidewalk removal, 03 05 13 00-0001 for color additive, 03 21 00 00-0000 for reinforcing steel, 03 31 13 00-0043 for buggies, 03 31 13 00-0050 for small quantity purchases, 03 37 16 00-0001 for pumping with boom truck, 31 23 16 36-0000 for excavation, 32 11 23 16-0001 for base course.

32 16 23 00-0002	SF	4" Cast In Place Concrete Sidewalk	10.33	
		For Up To 100, Add	4.31	
		For >100 To 500, Add	1.21	
		For >1,000 To 5,000, Deduct	-0.69	
		For >5,000, Deduct	-1.55	
		For Welded Wire Reinforcement, Add	0.99	
32 16 23 00-0003	SF	5" Cast In Place Concrete Sidewalk	11.34	
		For Up To 100, Add	4.62	
		For >100 To 500, Add	1.28	
		For >1,000 To 5,000, Deduct	-0.71	
		For >5,000, Deduct	-1.64	
		For Welded Wire Reinforcement, Add	0.99	
32 16 23 00-0004	SF	6" Cast In Place Concrete Sidewalk	12.37	
		For Up To 100, Add	4.94	
		For >100 To 500, Add	1.36	
		For >1,000 To 5,000, Deduct	-0.74	
		For >5,000, Deduct	-1.73	
		For Welded Wire Reinforcement, Add	0.99	
32 16 23 00-0005	SF	7" Cast In Place Concrete Sidewalk	14.41	
		For Up To 100, Add	5.70	
		For >100 To 500, Add	1.56	
		For >1,000 To 5,000, Deduct	-0.84	
		For >5,000, Deduct	-1.98	
		For Welded Wire Reinforcement, Add	0.99	
32 16 23 00-0006	SF	8" Cast In Place Concrete Sidewalk	15.32	
		For Up To 100, Add	5.96	
		For >100 To 500, Add	1.62	
		For >1,000 To 5,000, Deduct	-0.85	
		For >5,000, Deduct	-2.05	
		For Welded Wire Reinforcement, Add	0.99	
32 16 23 00-0007	SF	For Exposed Aggregate Finish In Sidewalk	2.45	
32 16 23 00-0008	EA	Finish Concrete Handicap Drop Section In Sidewalk	147.27	
		Note: Excludes patterned (tactile) finish.		
32 16 23 00-0009	LF	For Hand Trowel Finish At Sidewalk Edges (Picture Frame)	2.45	

32 16 23 00-0010 Bituminous Sidewalk (32 16 23)

Note: Includes finish grading, delivered asphalt, formwork, control joints, expansion joints, and compaction. Excludes excavation, base, and base compaction. See CSI section 32 11 23 16-0001 for base course.

32 16 23 00-0011	SY	1" Bituminous Sidewalk	9.58	
		For Up To 100, Add	3.54	
		For >100 To 500, Add	0.94	
		For >1,000 To 5,000, Deduct	-0.46	
		For >5,000, Deduct	-0.94	
32 16 23 00-0012	SY	1-1/2" Bituminous Sidewalk	12.04	
		For Up To 100, Add	4.39	
		For >100 To 500, Add	1.15	
		For >1,000 To 5,000, Deduct	-0.55	
		For >5,000, Deduct	-1.15	
32 16 23 00-0013	SY	2" Bituminous Sidewalk	16.78	
		For Up To 100, Add	5.91	
		For >100 To 500, Add	1.52	
		For >1,000 To 5,000, Deduct	-0.68	
		For >5,000, Deduct	-1.52	
32 16 23 00-0014	SY	2-1/2" Bituminous Sidewalk	20.99	
		For Up To 100, Add	7.37	
		For >100 To 500, Add	1.90	
		For >1,000 To 5,000, Deduct	-0.85	
		For >5,000, Deduct	-1.90	
32 16 23 00-0015	SY	3" Bituminous Sidewalk	24.21	
		For Up To 100, Add	8.35	
		For >100 To 500, Add	2.13	
		For >1,000 To 5,000, Deduct	-0.92	
		For >5,000, Deduct	-2.13	
32 16 23 00-0016	SY	3-1/2" Bituminous Sidewalk	28.01	
		For Up To 100, Add	9.53	
		For >100 To 500, Add	2.41	
		For >1,000 To 5,000, Deduct	-1.01	
		For >5,000, Deduct	-2.41	

32 16 43 Asphalt Dike (32 16)**32 16 43 00-0001 Asphalt Dike** (32 16 43)

32 16 43 00-0002	LF	Type A, Asphalt Dike, 11" Base, 5" Top, 6" Height	7.14	
32 16 43 00-0003	LF	Type B, Asphalt Dike, 13" Base, 5" Top, 8" Height	9.82	



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Curbs, Gutters, Sidewalks, and Driveways			32 16

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 43 00-0004	LF		Type C-6, Asphalt Dike, 18" Base, 6" Top, 6" Height.....	9.82	
32 16 43 00-0005	LF		Type C-8, Asphalt Dike, 22" Base, 6" Top, 8" Height.....	14.06	
32 16 43 00-0006	LF		Type C-9, Asphalt Dike, 24" Base, 6" Top, 9" Height.....	16.66	
32 16 43 00-0007	LF		Type D, Asphalt Dike, 8" Base, 4" Top, 2" Height.....	3.74	
32 16 43 00-0008	LF		Type E, Mountable Asphalt Dike, 16" Base, 12" Top, 2" Height Front, 6" Height Back	10.20	
32 16 43 00-0009	LF		Type F, Mountable Asphalt Dike, 26" Base, 20" Top, 2" Height Front, 8" Height Back.....	15.74	
32 16 43 00-0010	LF		CALTRANS Type A, Asphalt Dike, 11" Base, 5" Top, 6" Height.....	7.14	
32 16 43 00-0011	LF		CALTRANS Type C, Asphalt Dike, 8" Base, 4" Top, 2" Height.....	3.74	
32 16 43 00-0012	LF		CALTRANS Type D, Mountable Asphalt Dike, 26" Base, 20" Top, 2" Height Front, 8" Height Back	15.74	
32 16 43 00-0013	LF		CALTRANS Type E, Mountable Asphalt Dike, 16" Base, 12" Top, 2" Height Front, 6" Height Back	10.20	
32 16 43 00-0014	LF		CALTRANS Type F, Asphalt Dike, 8" Base, 4" Top, 4" Height.....	5.48	

32 17 Paving Specialties (32 10)

32 17 13 Parking Bumpers (32 17)

Note: Includes dowels set.

32 17 13 16 Plastic Parking Bumpers (32 17 13)

32 17 13 16-0001	EA	4" x 6" x 4' Recycled Plastic Wheel Stop	176.60	7.13
32 17 13 16-0002	EA	4" x 6" x 6' Recycled Plastic Wheel Stop	200.07	7.13

32 17 13 19 Precast Concrete Parking Bumpers (32 17 13)

32 17 13 19-0001	EA	6" x 8" x 4' Precast Concrete Wheel Stop With Dowels	65.67	21.48
32 17 13 19-0002	EA	6" x 6" x 6' Precast Concrete Wheel Stop With Dowels	75.07	21.48
32 17 13 19-0003	EA	6" x 8" x 6' Precast Concrete Wheel Stop With Dowels	77.95	21.48
32 17 13 19-0004	EA	6" x 10" x 6' Precast Concrete Wheel Stop With Dowels	81.54	21.48
32 17 13 19-0005	EA	4-7/8" x 7-5/8" x 6' Precast Concrete Wheel Stop With Dowels.....	76.21	21.48
32 17 13 19-0006	EA	8" x 13" x 6' Precast Concrete Wheel Stop With Dowels.....	96.01	21.48
32 17 13 19-0007	EA	Removal And Relocation Of Precast Concrete Wheel Stop	34.37	
32 17 13 19-0008	EA	Removal And Relocation Of Plastic Or Wood Wheel Stop	22.35	

32 17 13 23 Rubber Parking Bumpers (32 17 13)

32 17 13 23-0001	EA	3' Recycled Rubber Wheel Stop	30.62	7.13
32 17 13 23-0002	EA	4' Recycled Rubber Wheel Stop	35.69	7.13
32 17 13 23-0003	EA	5' Recycled Rubber Wheel Stop	37.71	7.13
32 17 13 23-0004	EA	6' Recycled Rubber Wheel Stop	40.75	7.13

32 17 13 26 Wood Parking Bumpers (32 17 13)

32 17 13 26-0001	LF	4" x 4" Timber Barrier With Saddles For Cars, Pressure Treated	11.05	1.72
32 17 13 26-0002	LF	6" x 6" Timber Barriers With Saddle For Trucks, Pressure Treated.....	15.10	1.72

32 17 16 Manufactured Traffic-Calming Devices (32 17)

32 17 16 00-0001 Speed Bumps (32 17 16)

Note: Excludes pavement markings or reflectors.

32 17 16 00-0002	LF	2-1/4" High x 10-1/2" Wide, Asphalt Speed Bump	37.72	1.84
32 17 16 00-0003	LF	3-1/2" High x 12" Wide, Asphalt Speed Bump	59.51	
Note: Excludes striping.				
32 17 16 00-0004	LF	2-1/4" High x 12" Wide, Recycled Rubber Speed Bump.....	30.02	1.22
32 17 16 00-0005	LF	2-5/8" High x 12" Wide, Recycled Plastic Speed Bump.....	136.96	1.22

32 17 16 00-0006 Modular Rubber Speed Tables (32 17 16)

Note: 3" high flat topped speed humps, 18" x 42" modular rubber construction. Trafficlogix.

32 17 16 00-0007	SF	Up To 24' Road Width x 7' Run Modular Rubber Speed Table.....	65.30	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.				
32 17 16 00-0008	SF	Up To 24' Road Width x 14' Run Modular Rubber Speed Table.....	57.04	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.				
32 17 16 00-0009	SF	Up To 24' Road Width x 21' Run Modular Rubber Speed Table.....	53.55	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.				
32 17 16 00-0010	SF	>24' To 30' Road Width x 7' Run Modular Rubber Speed Table.....	62.49	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.				
32 17 16 00-0011	SF	>24' To 30' Road Width x 14' Run Modular Rubber Speed Table.....	54.97	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.				
32 17 16 00-0012	SF	>24' To 30' Road Width x 21' Run Modular Rubber Speed Table.....	51.87	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.				
32 17 16 00-0013	SF	>30' To 40' Road Width x 7' Run Modular Rubber Speed Table.....	59.69	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.				

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 16 00-0014	SF	>30' To 40' Road Width x 14' Run Modular Rubber Speed Table..... Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.	53.33	
32 17 16 00-0015	SF	>30' To 40' Road Width x 21' Run Modular Rubber Speed Table..... Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.	50.49	
32 17 16 00-0016		Asphalt Speed Table ^(32 17 16) Note: Excludes pavement markings or reflectors.		
32 17 16 00-0017	LF	Up to 36" Wide Asphalt Speed Table With 3" Center Crown Note: Tapered on edges to roadway.	36.16	
32 17 16 00-0018	LF	>36" To 48" Wide Asphalt Speed Table With 3" Center Crown Note: Tapered on edges to roadway.	42.70	
32 17 16 00-0019	LF	Up to 36" Wide Asphalt Speed Table With 4" Center Crown Note: Tapered on edges to roadway.	45.45	
32 17 16 00-0020	LF	>36" To 48" Wide Asphalt Speed Table With 4" Center Crown Note: Tapered on edges to roadway.	53.71	
32 17 16 00-0021	LF	Up to 36" Wide Asphalt Speed Table With 6" Center Crown Note: Tapered on edges to roadway.	55.47	
32 17 16 00-0022	LF	>36" To 48" Wide Asphalt Speed Table With 6" Center Crown Note: Tapered on edges to roadway.	62.00	
32 17 16 00-0023		Concrete Speed Table ^(32 17 16)		
32 17 16 00-0024	SF	Concrete Speed Table Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.	15.43	
32 17 23		Pavement Markings ^(32 17) See CSI section 01 55 26 00-0000 for temporary markings and removable line mask tape.		
32 17 23 13		Painted Pavement Markings ^(32 17 23)		
32 17 23 13-0001		Painted Pavement Striping, Letters, Symbols And Markers For Roads ^(32 17 23) ¹³⁾ Note: Includes primers, adhesive and glass beads where required. For broken line quantities use total lane length. Per Coat.		
32 17 23 13-0002		Alkyd/Solvent Based/Latex Reflective Pavement Marking ^(32 17 23 13-0001) Note: 15 mil thickness.		
32 17 23 13-0003	LF	Single 4" Wide Solid Line, Painted Reflective Pavement Striping..... For Up To 5,000 LF, Add For >25,000 LF, Deduct For Broken Line, Deduct	0.31 0.06 -0.05 -0.06	
32 17 23 13-0004	LF	Single 6" Wide Solid Line, Painted Reflective Pavement Striping..... For Up To 5,000 LF, Add For >25,000 LF, Deduct For Broken Line, Deduct	0.41 0.08 -0.06 -0.09	
32 17 23 13-0005	LF	Single 8" Wide Solid Line, Painted Reflective Pavement Striping..... For Up To 5,000 LF, Add For >25,000 LF, Deduct For Broken Line, Deduct	0.51 0.10 -0.08 -0.11	
32 17 23 13-0006	LF	Single 12" Wide Solid Line, Painted Reflective Pavement Striping..... For Up To 5,000 LF, Add For >25,000 LF, Deduct For Broken Line, Deduct	0.68 0.14 -0.10 -0.17	
32 17 23 13-0007	LF	Double 4" Wide Solid Lines, Painted Reflective Pavement Striping..... For Up To 5,000 LF, Add For >25,000 LF, Deduct For Broken Line On One Side, Deduct For Double Broken Line, Deduct	0.46 0.09 -0.07 -0.06 -0.11	
32 17 23 13-0008	LF	Double 6" Wide Solid Lines, Painted Reflective Pavement Striping..... For Up To 5,000 LF, Add For >25,000 LF, Deduct For Broken Line On One Side, Deduct For Double Broken Line, Deduct	0.68 0.14 -0.10 -0.08 -0.17	
32 17 23 13-0009	SF	Solid Area, Painted Reflective Pavement Striping Note: Use this task for: lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.	6.14	
32 17 23 13-0010	EA	6" High, Letter/Number, Alkyd Reflective Pavement Striping..... For <10, Add For >50 To 100, Deduct For >100 To 200, Deduct For >200, Deduct	4.47 0.61 -0.30 -0.40 -0.81	
32 17 23 13-0011	EA	12" High, Letter/Number, Alkyd Reflective Pavement Striping..... For <10, Add For >50 To 100, Deduct For >100 To 200, Deduct For >200, Deduct	7.68 0.92 -0.46 -0.61 -1.22	
32 17 23 13-0012	EA	24" High, Letter/Number, Alkyd Reflective Pavement Striping..... For <10, Add For >50 To 100, Deduct For >100 To 200, Deduct For >200, Deduct	12.89 1.52 -0.76 -1.02 -2.03	



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Paving Specialties			32 17

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0013	EA		36" High, Letter/Number, Alkyd Reflective Pavement Striping.....	25.12	
			For <10, Add	3.05	
			For >50 To 100, Deduct	-1.52	
			For >100 To 200, Deduct	-2.03	
			For >200, Deduct	-4.06	
32 17 23 13-0014	EA		48" High, Letter/Number, Alkyd Reflective Pavement Striping.....	29.04	
			For <10, Add	3.42	
			For >50 To 100, Deduct	-1.71	
			For >100 To 200, Deduct	-2.28	
			For >200, Deduct	-4.56	
32 17 23 13-0015	EA		72" High, Letter/Number, Alkyd Reflective Pavement Striping.....	51.96	
			For <10, Add	6.08	
			For >50 To 100, Deduct	-3.04	
			For >100 To 200, Deduct	-4.06	
			For >200, Deduct	-8.11	
32 17 23 13-0016	EA		96" High, Letter/Number, Alkyd Reflective Pavement Striping.....	69.47	
			For <10, Add	8.17	
			For >50 To 100, Deduct	-4.08	
			For >100 To 200, Deduct	-5.45	
			For >200, Deduct	-10.89	
32 17 23 13-0017	EA		120" High, Letter/Number, Alkyd Reflective Pavement Striping.....	100.98	
			For <10, Add	10.12	
			For >50 To 100, Deduct	-5.06	
			For >100 To 200, Deduct	-6.75	
			For >200, Deduct	-13.49	
32 17 23 13-0018	SF		Letter/Number, Painted Reflective Pavement Marking	7.20	
32 17 23 13-0019	SF		Symbols, Painted Reflective Pavement Marking	8.57	
			Note: Handicap, railroad, diamond, arrows, etc.		

32 17 23 13-0020 Painted Reflective Pavement Marking (CALTRANS)

Note: Per LF of detail.

32 17 23 13-0021	LF		CALTRANS Detail 1 Centerline, Painted Reflective Pavement Striping	0.26	
			For Up To 5,000 LF, Add	0.05	
			For >25,000 LF, Deduct	-0.04	
32 17 23 13-0022	LF		CALTRANS Detail 2 Centerline, Painted Reflective Pavement Striping	0.39	
			For Up To 5,000 LF, Add	0.08	
			For >25,000 LF, Deduct	-0.06	
32 17 23 13-0023	LF		CALTRANS Detail 4 Centerline	0.70	
			For Up To 5,000 LF, Add	0.14	
			For >25,000 LF, Deduct	-0.11	
32 17 23 13-0024	LF		CALTRANS Detail 5 Centerline, Painted Reflective Pavement Striping	0.25	
			For Up To 5,000 LF, Add	0.05	
			For >25,000 LF, Deduct	-0.04	
32 17 23 13-0025	LF		CALTRANS Detail 6 Centerline, Painted Reflective Pavement Striping	0.39	
			For Up To 5,000 LF, Add	0.08	
			For >25,000 LF, Deduct	-0.06	
32 17 23 13-0026	LF		CALTRANS Detail 7 Centerline	0.51	
			For Up To 5,000 LF, Add	0.10	
			For >25,000 LF, Deduct	-0.08	
32 17 23 13-0027	LF		CALTRANS Detail 8 Lanelines, Painted Reflective Pavement Striping	0.26	
			For Up To 5,000 LF, Add	0.05	
			For >25,000 LF, Deduct	-0.04	
32 17 23 13-0028	LF		CALTRANS Detail 9 Lanelines, Painted Reflective Pavement Striping	0.39	
			For Up To 5,000 LF, Add	0.08	
			For >25,000 LF, Deduct	-0.06	
32 17 23 13-0029	LF		CALTRANS Detail 10 Lanelines	0.70	
			For Up To 5,000 LF, Add	0.14	
			For >25,000 LF, Deduct	-0.11	
32 17 23 13-0030	LF		CALTRANS Detail 11 Lanelines, Painted Reflective Pavement Striping	0.25	
			For Up To 5,000 LF, Add	0.05	
			For >25,000 LF, Deduct	-0.04	
32 17 23 13-0031	LF		CALTRANS Detail 12 Lanelines, Painted Reflective Pavement Striping	0.38	
			For Up To 5,000 LF, Add	0.08	
			For >25,000 LF, Deduct	-0.06	
32 17 23 13-0032	LF		CALTRANS Detail 13 Lanelines	0.51	
			For Up To 5,000 LF, Add	0.10	
			For >25,000 LF, Deduct	-0.08	
32 17 23 13-0033	LF		CALTRANS Detail 14 Lanelines	0.51	
			For Up To 5,000 LF, Add	0.10	
			For >25,000 LF, Deduct	-0.08	
32 17 23 13-0034	LF		CALTRANS Detail 14A Lanelines, Painted Reflective Pavement Striping.....	0.38	
			For Up To 5,000 LF, Add	0.08	
			For >25,000 LF, Deduct	-0.06	
32 17 23 13-0035	LF		CALTRANS Detail 15 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping.....	0.34	
			For Up To 5,000 LF, Add	0.07	
			For >25,000 LF, Deduct	-0.05	
			For Broken Line On One Side, Deduct	-0.04	
			For Double Broken Line, Deduct	-0.08	
32 17 23 13-0036	LF		CALTRANS Detail 16 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping.....	0.86	
			For Up To 5,000 LF, Add	0.17	
			For >25,000 LF, Deduct	-0.13	
32 17 23 13-0037	LF		CALTRANS Detail 17 No Passing Zones-One Direction Lanelines.....	2.03	
			For Up To 5,000 LF, Add	0.41	
			For >25,000 LF, Deduct	-0.30	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0038 LF CALTRANS Detail 18 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping	0.34	
For Up To 5,000 LF, Add	0.07	
For >25,000 LF, Deduct	-0.05	
For Broken Line On One Side, Deduct	-0.04	
For Double Broken Line, Deduct	-0.08	
32 17 23 13-0039 LF CALTRANS Detail 19 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping	0.72	
For Up To 5,000 LF, Add	0.14	
For >25,000 LF, Deduct	-0.11	
32 17 23 13-0040 LF CALTRANS Detail 20 No Passing Zones-One Direction Lanelines	1.71	
For Up To 5,000 LF, Add	0.34	
For >25,000 LF, Deduct	-0.26	
32 17 23 13-0041 LF CALTRANS Detail 21 No Passing Zones-Two Direction Lanelines, Painted Reflective Pavement Striping	0.41	
For Up To 5,000 LF, Add	0.08	
For >25,000 LF, Deduct	-0.06	
For Broken Line On One Side, Deduct	-0.07	
For Double Broken Line, Deduct	-0.14	
32 17 23 13-0042 LF CALTRANS Detail 22 No Passing Zones-Two Direction Lanelines, Painted Reflective Pavement Striping	0.92	
For Up To 5,000 LF, Add	0.18	
For >25,000 LF, Deduct	-0.14	
32 17 23 13-0043 LF CALTRANS Detail 23 No Passing Zones-Two Direction Lanelines	2.41	
For Up To 5,000 LF, Add	0.48	
For >25,000 LF, Deduct	-0.36	
32 17 23 13-0044 LF CALTRANS Detail 24 Left Edgelines, Painted Reflective Pavement Striping	0.32	
For Up To 5,000 LF, Add	0.06	
For >25,000 LF, Deduct	-0.05	
32 17 23 13-0045 LF CALTRANS Detail 25 Left Edgelines, Painted Reflective Pavement Striping	0.45	
For Up To 5,000 LF, Add	0.09	
For >25,000 LF, Deduct	-0.07	
32 17 23 13-0046 LF CALTRANS Detail 25A Left Edgelines, Painted Reflective Pavement Striping	0.58	
For Up To 5,000 LF, Add	0.12	
For >25,000 LF, Deduct	-0.09	
32 17 23 13-0047 LF CALTRANS Detail 26 Left Edgelines	0.13	
For Up To 5,000 LF, Add	0.03	
For >25,000 LF, Deduct	-0.02	
32 17 23 13-0048 LF CALTRANS Detail 27 Left Edgelines, Painted Reflective Pavement Striping	0.54	
For Up To 5,000 LF, Add	0.11	
For >25,000 LF, Deduct	-0.08	
32 17 23 13-0049 LF CALTRANS Detail 27B Right Edgelines, Painted Reflective Pavement Striping	0.32	
For Up To 5,000 LF, Add	0.06	
For >25,000 LF, Deduct	-0.05	
32 17 23 13-0050 LF CALTRANS Detail 27C Right Edgeline Extension Through Intersections, Painted Reflective Pavement Striping	0.25	
For Up To 5,000 LF, Add	0.05	
For >25,000 LF, Deduct	-0.04	
32 17 23 13-0051 LF CALTRANS Detail 28 Median Islands, Painted Reflective Pavement Striping	0.81	
For Up To 5,000 LF, Add	0.16	
For >25,000 LF, Deduct	-0.12	
For Broken Line On One Side, Deduct	-0.13	
For Double Broken Line, Deduct	-0.26	
32 17 23 13-0052 LF CALTRANS Detail 29 Median Islands, Painted Reflective Pavement Striping	1.32	
For Up To 5,000 LF, Add	0.26	
For >25,000 LF, Deduct	-0.20	
32 17 23 13-0053 LF CALTRANS Detail 30 Median Islands	4.83	
For Up To 5,000 LF, Add	0.97	
For >25,000 LF, Deduct	-0.72	
32 17 23 13-0054 LF CALTRANS Detail 31 Two-Way Left Turn Lanes, Painted Reflective Pavement Striping	0.68	
For Up To 5,000 LF, Add	0.14	
For >25,000 LF, Deduct	-0.10	
For Broken Line On One Side, Deduct	-0.08	
For Double Broken Line, Deduct	-0.17	
32 17 23 13-0055 LF CALTRANS Detail 32 Two-Way Left Turn Lanes, Painted Reflective Pavement Striping	1.31	
For Up To 5,000 LF, Add	0.26	
For >25,000 LF, Deduct	-0.20	
32 17 23 13-0056 LF CALTRANS Detail 33 Two-Way Left Turn Lanes	3.29	
For Up To 5,000 LF, Add	0.66	
For >25,000 LF, Deduct	-0.49	
32 17 23 13-0057 LF CALTRANS Detail 34 Intersection Treatments, Painted Reflective Pavement Striping	0.72	
For Up To 5,000 LF, Add	0.14	
For >25,000 LF, Deduct	-0.11	
32 17 23 13-0058 LF CALTRANS Detail 34A Intersection Treatments, Painted Reflective Pavement Striping	0.34	
For Up To 5,000 LF, Add	0.07	
For >25,000 LF, Deduct	-0.05	
32 17 23 13-0059 LF CALTRANS Detail 35 Intersection Treatments, Painted Reflective Pavement Striping	0.86	
For Up To 5,000 LF, Add	0.17	
For >25,000 LF, Deduct	-0.13	
32 17 23 13-0060 LF CALTRANS Detail 35A Intersection Treatments, Painted Reflective Pavement Striping	0.34	
For Up To 5,000 LF, Add	0.07	
For >25,000 LF, Deduct	-0.05	
32 17 23 13-0061 LF CALTRANS Detail 36 Exit Ramp Neutral Area (Gore) Treatment, Painted Reflective Pavement Striping	1.52	
For Up To 5,000 LF, Add	0.30	
For >25,000 LF, Deduct	-0.23	
32 17 23 13-0062 LF CALTRANS Detail 36A Entrance Ramp Neutral Area (Merge) Treatment, Painted Reflective Pavement Striping	0.99	
For Up To 5,000 LF, Add	0.20	
For >25,000 LF, Deduct	-0.15	



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Bases, Ballasts, and Paving		32 10
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0063	LF		CALTRANS Detail 36B Entrance Ramp Neutral Area (Acceleration Lane) Treatment, Painted Reflective Pavement Striping	1.07	
			For Up To 5,000 LF, Add	0.21	
			For >25,000 LF, Deduct	-0.16	
32 17 23 13-0064	LF		CALTRANS Detail 37 Lane Drop At Exit Ramps, Painted Reflective Pavement Striping	0.94	
			For Up To 5,000 LF, Add	0.19	
			For >25,000 LF, Deduct	-0.14	
32 17 23 13-0065	LF		CALTRANS Detail 37A Lane Drop At Exit Ramps	1.63	
			For Up To 5,000 LF, Add	0.33	
			For >25,000 LF, Deduct	-0.24	
32 17 23 13-0066	LF		CALTRANS Detail 37B Lane Drop At Intersections, Painted Reflective Pavement Striping	0.94	
			For Up To 5,000 LF, Add	0.19	
			For >25,000 LF, Deduct	-0.14	
32 17 23 13-0067	LF		CALTRANS Detail 37C Lane Drop At Intersections	1.63	
			For Up To 5,000 LF, Add	0.33	
			For >25,000 LF, Deduct	-0.24	
32 17 23 13-0068	LF		CALTRANS Detail 38 Channelizing Line, Painted Reflective Pavement Striping	0.91	
			For Up To 5,000 LF, Add	0.18	
			For >25,000 LF, Deduct	-0.14	
32 17 23 13-0069	LF		CALTRANS Detail 38A Channelizing Line, Painted Reflective Pavement Striping	0.66	
			For Up To 5,000 LF, Add	0.13	
			For >25,000 LF, Deduct	-0.10	
32 17 23 13-0070	LF		CALTRANS Detail 38B Channelizing Line, Painted Reflective Pavement Striping	1.16	
			For Up To 5,000 LF, Add	0.23	
			For >25,000 LF, Deduct	-0.17	
32 17 23 13-0071	LF		CALTRANS Detail 38C Channelizing Line	2.41	
			For Up To 5,000 LF, Add	0.48	
			For >25,000 LF, Deduct	-0.36	
32 17 23 13-0072	LF		CALTRANS Detail 39 Bike Lane Line, Painted Reflective Pavement Striping	0.40	
			For Up To 5,000 LF, Add	0.08	
			For >25,000 LF, Deduct	-0.06	
32 17 23 13-0073	LF		CALTRANS Detail 39A Intersection Line Bike Lane, Painted Reflective Pavement Striping	0.33	
			For Up To 5,000 LF, Add	0.07	
			For >25,000 LF, Deduct	-0.05	
32 17 23 13-0074	LF		CALTRANS Detail 40 Lane Line Extensions Through Intersections, Painted Reflective Pavement Striping	0.24	
			For Up To 5,000 LF, Add	0.05	
			For >25,000 LF, Deduct	-0.04	
32 17 23 13-0075	LF		CALTRANS Detail 40A Lane Line Extensions Through Intersections	1.14	
			For Up To 5,000 LF, Add	0.23	
			For >25,000 LF, Deduct	-0.17	
32 17 23 13-0076	LF		CALTRANS Detail 41 Center Line Extensions Through Intersections, Painted Reflective Pavement Striping	0.24	
			For Up To 5,000 LF, Add	0.05	
			For >25,000 LF, Deduct	-0.04	
32 17 23 13-0077	LF		CALTRANS Detail 41A Center Line Extensions Through Intersections	1.14	
			For Up To 5,000 LF, Add	0.23	
			For >25,000 LF, Deduct	-0.17	
32 17 23 13-0078	EA		CALTRANS 10' Arrow, Type I, Painted Reflective Pavement Marking	114.34	
			For <10, Add	14.80	
			For >50 To 100, Deduct	-7.40	
			For >100 To 200, Deduct	-9.87	
			For >200, Deduct	-19.73	
32 17 23 13-0079	EA		CALTRANS 18' Arrow, Type I, Painted Reflective Pavement Marking	200.66	
			For <10, Add	25.90	
			For >50 To 100, Deduct	-12.95	
			For >100 To 200, Deduct	-17.26	
			For >200, Deduct	-34.53	
32 17 23 13-0080	EA		CALTRANS 24' Arrow, Type I, Painted Reflective Pavement Marking	251.79	
			For <10, Add	32.56	
			For >50 To 100, Deduct	-16.28	
			For >100 To 200, Deduct	-21.70	
			For >200, Deduct	-43.41	
32 17 23 13-0081	EA		CALTRANS 24' Arrow With Single (L or R) Turn Arrow, Type II, Painted Reflective Pavement Marking	366.13	
			For <10, Add	47.35	
			For >50 To 100, Deduct	-23.68	
			For >100 To 200, Deduct	-31.57	
			For >200, Deduct	-63.14	
32 17 23 13-0082	EA		CALTRANS 24' Arrow With Both (L and R) Turn Arrows, Type II, Painted Reflective Pavement Marking	480.49	
			For <10, Add	62.15	
			For >50 To 100, Deduct	-31.08	
			For >100 To 200, Deduct	-41.44	
			For >200, Deduct	-82.87	
32 17 23 13-0083	EA		CALTRANS 24' Arrow Single (L or R) Turn Arrow, Type III, Painted Reflective Pavement Marking	338.10	
			For <10, Add	43.65	
			For >50 To 100, Deduct	-21.83	
			For >100 To 200, Deduct	-29.10	
			For >200, Deduct	-58.20	
32 17 23 13-0084	EA		CALTRANS 24' Arrow Both (L and R) Turn Arrows, Type III, Painted Reflective Pavement Marking	589.89	
			For <10, Add	76.21	
			For >50 To 100, Deduct	-38.10	
			For >100 To 200, Deduct	-50.81	
			For >200, Deduct	-101.61	
32 17 23 13-0085	EA		CALTRANS 8' Turn Arrow (L or R), Type IV, Painted Reflective Pavement Marking	120.40	
			For <10, Add	15.54	
			For >50 To 100, Deduct	-7.77	
			For >100 To 200, Deduct	-10.36	
			For >200, Deduct	-20.72	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0086 EA CALTRANS 24' Arrow, Type V, Painted Reflective Pavement Marking.....	263.89	
For <10, Add	34.04	
For >50 To 100, Deduct	-17.02	
For >100 To 200, Deduct	-22.69	
For >200, Deduct	-45.38	
32 17 23 13-0087 EA CALTRANS 18' Arrow, Type VI, Painted Reflective Pavement Marking.....	338.10	
For <10, Add	43.65	
For >50 To 100, Deduct	-21.83	
For >100 To 200, Deduct	-29.10	
For >200, Deduct	-58.20	
32 17 23 13-0088 EA CALTRANS 13' Arrow With Single (L or R) Turn Arrow, Type VII, Painted Reflective Pavement Marking.....	217.90	
For <10, Add	28.12	
For >50 To 100, Deduct	-14.06	
For >100 To 200, Deduct	-18.74	
For >200, Deduct	-37.49	
32 17 23 13-0089 EA CALTRANS 15' Arrow With Both (L and R) Turn Arrows, Type VIII, Painted Reflective Pavement Marking.....	287.00	
For <10, Add	37.00	
For >50 To 100, Deduct	-18.50	
For >100 To 200, Deduct	-24.66	
For >200, Deduct	-49.33	
32 17 23 13-0090 EA CALTRANS 5' Arrow, Bike Lane, Painted Reflective Pavement Marking.....	57.18	
For <10, Add	7.40	
For >50 To 100, Deduct	-3.70	
For >100 To 200, Deduct	-4.93	
For >200, Deduct	-9.87	
32 17 23 13-0091 EA CALTRANS Railroad Crossing Symbol, Painted Reflective Pavement Marking.....	547.08	
Note: Excludes variable width transverse lines.		
For <10, Add	70.29	
For >50 To 100, Deduct	-35.15	
For >100 To 200, Deduct	-46.86	
For >200, Deduct	-93.72	
32 17 23 13-0092 SF CALTRANS Solid Area, Painted Reflective Pavement Marking.....	7.14	
32 17 23 13-0093 EA CALTRANS Bike Lane Symbol Without Person, Painted Reflective Pavement Marking.....	54.49	
Note: Approximate overall dimensions: 4' width x 8' height.		
For <10, Add	5.33	
For >50 To 100, Deduct	-2.66	
For >100 To 200, Deduct	-3.55	
For >200, Deduct	-7.10	
32 17 23 13-0094 EA CALTRANS Bike Lane Symbol With Person, Painted Reflective Pavement Marking.....	57.76	
Note: Approximate overall dimensions: 4' width x 8' height.		
For <10, Add	5.62	
For >50 To 100, Deduct	-2.81	
For >100 To 200, Deduct	-3.75	
For >200, Deduct	-7.50	
32 17 23 13-0095 EA CALTRANS Diamond Symbol, Painted Reflective Pavement Marking.....	91.25	
For <10, Add	11.84	
For >50 To 100, Deduct	-5.92	
For >100 To 200, Deduct	-7.89	
For >200, Deduct	-15.78	
32 17 23 13-0096 EA CALTRANS International Symbol Of Accessibility (ISA) Marking, Painted Reflective Pavement Marking.....	185.60	
For <10, Add	23.97	
For >50 To 100, Deduct	-11.99	
For >100 To 200, Deduct	-15.98	
For >200, Deduct	-31.96	
32 17 23 13-0097 EA CALTRANS Bike Loop Detector Symbol, Painted Reflective Pavement Marking.....	39.65	
Note: Approximate overall dimensions: 4' width x 8' height.		
For <10, Add	5.62	
For >50 To 100, Deduct	-2.81	
For >100 To 200, Deduct	-3.75	
For >200, Deduct	-7.50	
32 17 23 13-0098 SF CALTRANS Letter/Number, Painted Reflective Pavement Marking.....	7.24	
32 17 23 13-0099 SF CALTRANS Symbols, Painted Reflective Pavement Marking.....	8.03	
Note: Handicap, railroad, diamond, arrows, etc.		
32 17 23 13-0100 Epoxy Reflective Pavement Marking (32 17 23 13-0001)		
Note: 15 mil thickness.		
32 17 23 13-0101 LF Single 4" Wide Solid Line, Epoxy Reflective Pavement Striping.....	0.60	
For 20 Mil Thickness, Add	0.13	
For Up To 5,000 LF, Add	0.12	
For >25,000 LF, Deduct	-0.09	
For Broken Line, Deduct	-0.28	
32 17 23 13-0102 LF Single 6" Wide Solid Line, Epoxy Reflective Pavement Striping.....	0.84	
For 20 Mil Thickness, Add	0.20	
For Up To 5,000 LF, Add	0.17	
For >25,000 LF, Deduct	-0.13	
For Broken Line, Deduct	-0.41	
32 17 23 13-0103 LF Single 8" Wide Solid Line, Epoxy Reflective Pavement Striping.....	1.02	
For 20 Mil Thickness, Add	0.24	
For Up To 5,000 LF, Add	0.20	
For >25,000 LF, Deduct	-0.15	
For Broken Line, Deduct	-0.50	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0104	LF		Single 12" Wide Solid Line, Epoxy Reflective Pavement Striping.....	1.54	
			For 20 Mil Thickness, Add	0.38	
			For Up To 5,000 LF, Add	0.31	
			For >25,000 LF, Deduct	-0.23	
			For Broken Line, Deduct	-0.81	
32 17 23 13-0105	LF		Double 4" Wide Solid Lines, Epoxy Reflective Pavement Striping.....	0.95	
			For 20 Mil Thickness, Add	0.25	
			For Up To 5,000 LF, Add	0.19	
			For >25,000 LF, Deduct	-0.14	
			For Broken Line On One Side, Deduct	-0.27	
			For Double Broken Line, Deduct	-0.54	
32 17 23 13-0106	LF		Double 6" Wide Solid Lines, Epoxy Reflective Pavement Striping.....	1.37	
			For 20 Mil Thickness, Add	0.37	
			For Up To 5,000 LF, Add	0.27	
			For >25,000 LF, Deduct	-0.21	
			For Broken Line On One Side, Deduct	-0.41	
			For Double Broken Line, Deduct	-0.81	
32 17 23 13-0107	SF		Solid Area, Epoxy Reflective Pavement Marking.....	7.86	
			Note: Use this task for: lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.		
			For 20 Mil Thickness, Add	0.94	
32 17 23 13-0108	EA		6" High, Letter/Number, Epoxy Reflective Pavement Marking.....	4.81	
			For 20 Mil Thickness, Add	0.46	
			For <10, Add	0.61	
			For >50 To 100, Deduct	-0.30	
			For >100 To 200, Deduct	-0.40	
			For >200, Deduct	-0.81	
32 17 23 13-0109	EA		12" High, Letter/Number, Epoxy Reflective Pavement Marking.....	8.92	
			For 20 Mil Thickness, Add	1.24	
			For <10, Add	0.92	
			For >50 To 100, Deduct	-0.46	
			For >100 To 200, Deduct	-0.61	
			For >200, Deduct	-1.22	
32 17 23 13-0110	EA		24" High, Letter/Number, Epoxy Reflective Pavement Marking.....	15.05	
			For 20 Mil Thickness, Add	2.14	
			For <10, Add	1.52	
			For >50 To 100, Deduct	-0.76	
			For >100 To 200, Deduct	-1.02	
			For >200, Deduct	-2.03	
32 17 23 13-0111	EA		36" High, Letter/Number, Epoxy Reflective Pavement Marking.....	28.92	
			For 20 Mil Thickness, Add	3.88	
			For <10, Add	3.05	
			For >50 To 100, Deduct	-1.52	
			For >100 To 200, Deduct	-2.03	
			For >200, Deduct	-4.06	
32 17 23 13-0112	EA		48" High, Letter/Number, Epoxy Reflective Pavement Marking.....	33.98	
			For 20 Mil Thickness, Add	4.87	
			For <10, Add	3.42	
			For >50 To 100, Deduct	-1.71	
			For >100 To 200, Deduct	-2.28	
			For >200, Deduct	-4.56	
32 17 23 13-0113	EA		72" High, Letter/Number, Epoxy Reflective Pavement Marking.....	60.99	
			For 20 Mil Thickness, Add	8.84	
			For <10, Add	6.08	
			For >50 To 100, Deduct	-3.04	
			For >100 To 200, Deduct	-4.06	
			For >200, Deduct	-8.11	
32 17 23 13-0114	EA		96" High, Letter/Number, Epoxy Reflective Pavement Marking.....	81.34	
			For 20 Mil Thickness, Add	11.68	
			For <10, Add	8.17	
			For >50 To 100, Deduct	-4.08	
			For >100 To 200, Deduct	-5.45	
			For >200, Deduct	-10.89	
32 17 23 13-0115	EA		120" High, Letter/Number, Epoxy Reflective Pavement Marking.....	127.49	
			For 20 Mil Thickness, Add	23.38	
			For <10, Add	10.12	
			For >50 To 100, Deduct	-5.06	
			For >100 To 200, Deduct	-6.75	
			For >200, Deduct	-13.49	
32 17 23 13-0116	SF		Letter/Number, Epoxy Reflective Pavement Marking.....	8.06	
			For 20 Mil Thickness, Add	0.95	
32 17 23 13-0117	SF		Symbols, Epoxy Reflective Pavement Marking.....	10.13	
			Note: Handicap, railroad, diamond, arrows, etc.		
			For 20 Mil Thickness, Add	1.06	
32 17 23 13-0118			Painted Pavement Striping, Letters And Symbols For Parking Areas (32 17 23 13)		
			Note: Includes primers. Per Coat.		
32 17 23 13-0119			Painted Pavement Marking For Parking Areas (32 17 23 13-0118)		
			Note: 15 mil thickness.		
32 17 23 13-0120	LF		Single 4" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.17	
32 17 23 13-0121	LF		Single 6" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.28	
32 17 23 13-0122	LF		Single 8" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.37	
32 17 23 13-0123	LF		Single 12" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.53	
32 17 23 13-0124	SF		Solid Area, Painted Pavement Marking For Parking Areas.....	6.11	
			Note: Use task for lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.		

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0125 EA 6" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	4.37	
For Up To 10, Add	0.59	
For >50 To 100, Deduct	-0.30	
For >100 To 200, Deduct	-0.40	
For >200, Deduct	-0.79	
32 17 23 13-0126 EA 12" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	7.43	
For Up To 10, Add	0.89	
For >50 To 100, Deduct	-0.44	
For >100 To 200, Deduct	-0.59	
For >200, Deduct	-1.18	
32 17 23 13-0127 EA 24" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	12.50	
For Up To 10, Add	1.48	
For >50 To 100, Deduct	-0.74	
For >100 To 200, Deduct	-0.99	
For >200, Deduct	-1.97	
32 17 23 13-0128 EA 36" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	23.39	
For Up To 10, Add	2.81	
For >50 To 100, Deduct	-1.41	
For >100 To 200, Deduct	-1.87	
For >200, Deduct	-3.75	
32 17 23 13-0129 EA 42" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	30.99	
For Up To 10, Add	3.85	
For >50 To 100, Deduct	-1.92	
For >100 To 200, Deduct	-2.57	
For >200, Deduct	-5.13	
32 17 23 13-0130 EA 48" High, Letter/Number/Arrow, Painted Pavement Marking For Parking Areas	37.61	
For Up To 10, Add	4.74	
For >50 To 100, Deduct	-2.37	
For >100 To 200, Deduct	-3.16	
For >200, Deduct	-6.31	
32 17 23 13-0131 EA 72" High, Letter/Number/Arrow, Painted Pavement Marking For Parking Areas	50.50	
For Up To 10, Add	5.92	
For >50 To 100, Deduct	-2.96	
For >100 To 200, Deduct	-3.95	
For >200, Deduct	-7.89	
32 17 23 13-0132 EA Through Lane Arrow, Painted Pavement Marking For Parking Areas	91.04	
Note: Approximate overall dimensions: 3-1/2' width x 10' height.		
32 17 23 13-0133 EA Turn Lane Arrow, Painted Pavement Marking For Parking Areas	104.63	
Note: Approximate overall dimensions: 6' width x 8' height.		
32 17 23 13-0134 EA Dual Turn Lane Arrow, Painted Pavement Marking For Parking Areas	150.21	
Note: Approximate overall dimensions: 11' width x 8' height.		
32 17 23 13-0135 EA Turn And Through Lane Arrow, Painted Pavement Marking For Parking Areas	153.35	
Note: Approximate overall dimensions: 7' width x 13' height.		
32 17 23 13-0136 EA Dual Turn And Through Lane Arrow, Painted Pavement Marking For Parking Areas	201.32	
Note: Approximate overall dimensions: 9' width x 15' height.		
32 17 23 13-0137 EA Handicap Symbol For Standard Parking Stalls, Painted Pavement Marking For Parking Areas	36.78	
Note: Approximate overall dimensions: 2-2/3' width x 3' height. White or blue symbol. Excludes striping.		
For Blue Background With White Symbol, Add	27.94	
For Blue Background With White Symbol And Border, Add	34.93	
32 17 23 13-0138 EA Handicap Symbol For Van Parking Stalls, Painted Pavement Marking For Parking Areas	54.52	
Note: Approximate overall dimensions: 4-1/3' width x 5' height. White or blue symbol. Excludes striping.		
For Blue Background With White Symbol, Add	57.89	
For Blue Background With White Symbol And Border, Add	72.36	
32 17 23 13-0139 Painted Curbs (32 17 23 13)		
Note: All colors.		
32 17 23 13-0140 LF Reflective Painted Curb	3.37	
32 17 23 13-0141 LF Reflective Painted Curb And Gutter.....	6.40	
32 17 23 13-0142 LF Painted Curb.....	2.73	
32 17 23 13-0143 LF Painted Curb And Gutter.....	5.84	
32 17 23 13-0144 Markings For Outdoor Play Areas, Courts (32 17 23 13)		
32 17 23 13-0145 LF 2" Wide Marking For Outdoor Play Areas	0.95	
32 17 23 13-0146 LF 3" Wide Marking For Outdoor Play Areas	1.06	
32 17 23 13-0147 LF 4" Wide Marking For Outdoor Play Areas	1.20	
32 17 23 13-0148 LF 6" Wide Marking For Outdoor Play Areas	1.41	
32 17 23 13-0149 EA Paint Playground Game Lines And Background On Asphalt Or Concrete (Hop Scotch, 4 Square, Numbers Games, Etcetera)	284.15	
32 17 23 13-0150 Painted Pavement Cycle Lane For Roads (32 17 23 13)		
32 17 23 13-0151 SF StreetBond or Ride-A-Way Pavement Coating For Cycle Lanes	4.90	
Note: 4-layer system with green bike lane colorant		
32 17 23 23 Raised Pavement Markings (32 17 23)		
32 17 23 23-0001 Raised Pavement Markers (RPMs) (32 17 23 23)		
32 17 23 23-0002 EA One-Way Reflective, Raised Pavement Marker (RPM)	5.76	2.46
Note: Type G, H or R		
For >100, Deduct	-0.58	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 23-0003	EA	Two-Way Reflective, Raised Pavement Marker (RPM) Note: Type B, C, D, AC, RA or RR	6.09	2.46
		For >100, Deduct	-0.61	
32 17 23 23-0004	EA	4" Diameter, Round Reflective, Raised Pavement Marker (RPM) For >100, Deduct	6.89	2.46
			-0.69	
32 17 23 23-0005	EA	4" Diameter, Non-Reflective, Raised Pavement Marker (RPM) Note: Type A or AY	5.33	2.46
		For >100, Deduct	-0.53	
32 17 23 23-0006		Snowplowable Pavement Markers (32 17 23 23)		
32 17 23 23-0007	EA	One-Way Reflective, Snowplowable Pavement Marker With Center Rail..... Note: Type G, H or R	71.36	30.39
32 17 23 23-0008	EA	Two-Way Reflective, Snowplowable Pavement Marker With Center Rail..... Note: Type B, C, D, AC, RA or RR	71.65	30.39
32 17 23 23-0009	EA	Removal And Replacement Of Reflector For One-Way Reflective, Recessed (Plowable) Pavement Marker	19.42	
32 17 23 23-0010	EA	Removal And Replacement Of Reflectors For Two-Way Reflective, Recessed (Plowable) Pavement Marker	24.77	
32 17 23 33		Plastic Pavement Markings (32 17 23)		
32 17 23 33-0001		Thermoplastic Pavement Striping, Letters, Symbols And Markers For Roads (32 17 23 33) Note: Includes primers, adhesive and glass beads where required. For broken line modifier quantity use total lane length.		
32 17 23 33-0002		Thermoplastic Reflective Pavement Marking (32 17 23 33-0001) Note: 90 mil thickness.		
32 17 23 33-0003	LF	Single 4" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping For Up To 5,000 LF, Add For >25,000 LF, Deduct For Broken Line, Deduct For 60 mils Thick, Deduct For 125 mils Thick, Add	1.38 0.28 -0.21 -0.60 -0.19 0.24	
32 17 23 33-0004	LF	Single 6" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping Note: Includes yellow or white. For Up To 5,000 LF, Add For >25,000 LF, Deduct For Broken Line, Deduct For 60 mils Thick, Deduct For 125 mils Thick, Add	1.97 0.39 -0.30 -1.20 -0.28 0.36	
32 17 23 33-0005	LF	Single 8" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping Note: Includes yellow or white. For Up To 5,000 LF, Add For >25,000 LF, Deduct For Broken Line, Deduct For 60 mils Thick, Deduct For 125 mils Thick, Add	2.61 0.52 -0.39 -1.60 -0.37 0.48	
32 17 23 33-0006	LF	Single 12" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping Note: Includes yellow or white. For Up To 5,000 LF, Add For >25,000 LF, Deduct For Broken Line, Deduct For 60 mils Thick, Deduct For 125 mils Thick, Add	3.81 0.76 -0.57 -2.40 -0.56 0.72	
32 17 23 33-0007	LF	Double 4" Wide Solid Lines, 90 Mil Thick, Thermoplastic Reflective Pavement Striping Note: Includes yellow or white. For Up To 5,000 LF, Add For >25,000 LF, Deduct For Broken Line On One Side, Deduct For Double Broken Line, Deduct For 60 mils Thick, Deduct For 125 mils Thick, Add	2.59 0.52 -0.39 -0.80 -1.60 -0.37 0.48	
32 17 23 33-0008	LF	Double 6" Wide Solid Lines, 90 Mil Thick, Thermoplastic Reflective Pavement Striping Note: Includes yellow or white. For Up To 5,000 LF, Add For >25,000 LF, Deduct For Broken Line On One Side, Deduct For Double Broken Line, Deduct For 60 mils Thick, Deduct For 125 mils Thick, Add	3.81 0.76 -0.57 -1.20 -2.40 -0.56 0.72	
32 17 23 33-0009	SF	Solid Area, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Note: Includes yellow or white. For 60 mils Thick, Deduct For 125 mils Thick, Add	9.10 -0.56 0.72	
32 17 23 33-0010	EA	6" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking For Up To 10, Add For >50 To 100, Deduct For >100 To 200, Deduct For >200, Deduct For 60 mils Thick, Deduct For 125 mils Thick, Add	6.05 0.67 -0.33 -0.44 -0.89 -0.28 0.36	

32 Exterior Improvements**32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0011 EA 12" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	12.54	
For Up To 10, Add	1.01	
For >50 To 100, Deduct	-0.50	
For >100 To 200, Deduct	-0.67	
For >200, Deduct	-1.34	
For 60 mils Thick, Deduct	-1.02	
For 125 mils Thick, Add	1.31	
32 17 23 33-0012 EA 24" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	21.36	
For Up To 10, Add	1.67	
For >50 To 100, Deduct	-0.84	
For >100 To 200, Deduct	-1.12	
For >200, Deduct	-2.23	
For 60 mils Thick, Deduct	-1.79	
For 125 mils Thick, Add	2.30	
32 17 23 33-0013 EA 36" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	40.34	
For Up To 10, Add	3.36	
For >50 To 100, Deduct	-1.68	
For >100 To 200, Deduct	-2.24	
For >200, Deduct	-4.48	
For 60 mils Thick, Deduct	-3.14	
For 125 mils Thick, Add	4.04	
32 17 23 33-0014 EA 48" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	48.39	
For Up To 10, Add	3.76	
For >50 To 100, Deduct	-1.88	
For >100 To 200, Deduct	-2.51	
For >200, Deduct	-5.01	
For 60 mils Thick, Deduct	-4.08	
For 125 mils Thick, Add	5.25	
32 17 23 33-0015 EA 72" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	87.23	
For Up To 10, Add	6.69	
For >50 To 100, Deduct	-3.34	
For >100 To 200, Deduct	-4.46	
For >200, Deduct	-8.92	
For 60 mils Thick, Deduct	-7.46	
For 125 mils Thick, Add	9.59	
32 17 23 33-0016 EA 96" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	115.99	
For Up To 10, Add	8.98	
For >50 To 100, Deduct	-4.49	
For >100 To 200, Deduct	-5.99	
For >200, Deduct	-11.98	
For 60 mils Thick, Deduct	-9.82	
For 125 mils Thick, Add	12.62	
32 17 23 33-0017 EA 120" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	199.43	
For Up To 10, Add	11.13	
For >50 To 100, Deduct	-5.56	
For >100 To 200, Deduct	-7.42	
For >200, Deduct	-14.84	
For 60 mils Thick, Deduct	-21.92	
For 125 mils Thick, Add	28.18	
32 17 23 33-0018 SF Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	10.74	
For 60 mils Thick, Deduct	-0.71	
For 125 mils Thick, Add	0.91	
32 17 23 33-0019 SY Cross Hatch, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	31.82	
Note: Per SY of area.		
For 60 mils Thick, Deduct	-1.25	
For 125 mils Thick, Add	1.61	
32 17 23 33-0020 EA Handicap Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	281.25	
For 60 mils Thick, Deduct	-16.26	
For 125 mils Thick, Add	20.91	
32 17 23 33-0021 EA Railroad Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	835.24	
For 60 mils Thick, Deduct	-49.49	
For 125 mils Thick, Add	63.63	
32 17 23 33-0022 EA Bike Lane Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	167.46	
Note: Approximate overall dimensions: 4' width x 8' height.		
For 60 mils Thick, Deduct	-22.40	
For 125 mils Thick, Add	28.80	
32 17 23 33-0023 EA Diamond Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	134.51	
For 60 mils Thick, Deduct	-7.78	
For 125 mils Thick, Add	10.00	
32 17 23 33-0024 SF Symbols, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	12.23	
Note: Handicap, railroad, diamond, arrows, etc.		
For 60 mils Thick, Deduct	-0.71	
For 125 mils Thick, Add	0.91	
32 17 23 33-0025 EA 10' Arrow, Type I, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	171.19	
For 60 mils Thick, Deduct	-9.90	
For 125 mils Thick, Add	12.73	
32 17 23 33-0026 EA 18' Arrow, Type I, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	305.70	
For 60 mils Thick, Deduct	-17.68	
For 125 mils Thick, Add	22.73	
32 17 23 33-0027 EA 24' Arrow, Type I, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	379.08	
For 60 mils Thick, Deduct	-21.92	
For 125 mils Thick, Add	28.18	
32 17 23 33-0028 EA 24' Arrow With Single (L or R) Turn Arrow, Type II, 90 Mil Thick, Thermoplastic Reflective Pavement Marking	550.26	
For 60 mils Thick, Deduct	-31.81	
For 125 mils Thick, Add	40.90	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0029 EA 24' Arrow With Both (L and R) Turn Arrows, Type II, 90 Mil Thick, Thermoplastic Reflective Pavement Marking For 60 mils Thick, Deduct For 125 mils Thick, Add	721.46 -41.71 53.63	
32 17 23 33-0030 EA 24' Arrow Single (L or R) Turn Arrow, Type III, 90 Mil Thick, Thermoplastic Reflective Pavement Marking For 60 mils Thick, Deduct For 125 mils Thick, Add	513.57 -29.69 38.18	
32 17 23 33-0031 EA 24' Arrow Both (L and R) Turn Arrows, Type III, 90 Mil Thick, Thermoplastic Reflective Pavement Marking For 60 mils Thick, Deduct For 125 mils Thick, Add	892.65 -51.61 66.35	
32 17 23 33-0032 EA 8' Turn Arrow (L or R), Type IV, 90 Mil Thick, Thermoplastic Reflective Pavement Marking For 60 mils Thick, Deduct For 125 mils Thick, Add	183.43 -10.61 13.64	
32 17 23 33-0033 EA 24' Arrow, Type V, 90 Mil Thick, Thermoplastic Reflective Pavement Marking For 60 mils Thick, Deduct For 125 mils Thick, Add	403.53 -23.33 30.00	
32 17 23 33-0034 EA 18' Arrow, Type VI, 90 Mil Thick, Thermoplastic Reflective Pavement Marking For 60 mils Thick, Deduct For 125 mils Thick, Add	513.57 -29.69 38.18	
32 17 23 33-0035 EA 13' Arrow With Single (L or R) Turn Arrow, Type VII, 90 Mil Thick, Thermoplastic Reflective Pavement Marking..... For 60 mils Thick, Deduct For 125 mils Thick, Add	330.16 -19.09 24.54	
32 17 23 33-0036 EA 15' Arrow With Both (L and R) Turn Arrows, Type VIII, 90 Mil Thick, Thermoplastic Reflective Pavement Marking..... For 60 mils Thick, Deduct For 125 mils Thick, Add	440.22 -25.45 32.72	
32 17 23 33-0037 EA 5' Arrow, Bike Lane, 90 Mil Thick, Thermoplastic Reflective Pavement Marking For 60 mils Thick, Deduct For 125 mils Thick, Add	85.60 -4.95 6.36	
32 17 23 33-0038 Thermoplastic Reflective Pavement Striping By Hand For Repairs (32 17 23 33-0001)		
32 17 23 33-0039 LF Single 4" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs For 60 mils Thick, Deduct For 125 mils Thick, Add	3.16 -0.19 0.24	
32 17 23 33-0040 LF Single 6" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs For 60 mils Thick, Deduct For 125 mils Thick, Add	3.98 -0.28 0.36	
32 17 23 33-0041 LF Single 8" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs For 60 mils Thick, Deduct For 125 mils Thick, Add	4.90 -0.37 0.48	
32 17 23 33-0042 LF Single 12" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs For 60 mils Thick, Deduct For 125 mils Thick, Add	7.04 -0.56 0.72	
32 17 23 33-0043 LF Single 24" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs For 60 mils Thick, Deduct For 125 mils Thick, Add	12.64 -1.12 1.44	
32 17 23 33-0044 Preformed, Thermoplastic Reflective Pavement Marking (32 17 23 33-0001)		
Note: Heat applied. 125 mil thickness (90 mil for bicycle symbols). (Flint PreMark).		
32 17 23 33-0045 EA Preformed Bike Lane Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 4' width x 8' height.	357.36	
32 17 23 33-0046 EA Preformed Railroad Crossing Symbol, 125 Mil Thick, Thermoplastic Reflective Pavement Marking Tape..... Note: Approximate overall dimensions: 8' width x 20' height. Excludes transverse lines.	947.38	
32 17 23 33-0047 EA Preformed Preferential Lane Symbol (Diamond), 125 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 3-1/4' width x 13' height.	190.86	
32 17 23 33-0048 EA 6' Height, Preformed Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 2' width x 6' height.	162.01	
32 17 23 33-0049 EA 9-1/2' Height, Preformed Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 3-1/4' width x 9-1/2' height.	311.85	
32 17 23 33-0050 EA 4' Height, Preformed Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 3' width x 4' height.	187.18	
32 17 23 33-0051 EA 8' Height, Preformed Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 6' width x 8' height.	346.81	
32 17 23 33-0052 EA Preformed Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape..... Note: Approximate overall dimensions: 7-1/4' width x 12-3/4' height.	590.62	
32 17 23 33-0053 EA Preformed Dual Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 11-1/4' width x 13-1/4' height.	887.60	
32 17 23 33-0054 EA Preformed Elongated Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 1-2/3' width x 12' height.	321.52	
32 17 23 33-0055 EA Preformed Elongated Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 3' width x 12' height.	356.48	
32 17 23 33-0056 EA Preformed Elongated Dual Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape..... Note: Approximate overall dimensions: 5-1/2' width x 12' height.	653.77	
32 17 23 33-0057 EA Preformed Elongated Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 3-1/2' width x 20' height.	601.46	
32 17 23 33-0058 EA Preformed Elongated Dual Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape..... Note: Approximate overall dimensions: 5-1/2' width x 20' height.	604.43	
32 17 23 33-0059 EA Preformed Lane-Reduction Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape Note: Approximate overall dimensions: 5-1/2' width x 18' height.	828.84	
32 17 23 33-0060 EA 4' x 7' Preformed Bike Symbol Panel, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Note: Lightgreen or black background color with white symbol.	495.61	
32 17 23 33-0061 EA 4' x 10' Preformed Shared Bike Lane Symbol Panel, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Note: Lightgreen or black background color with white symbol.	705.91	

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32 17 23 33-0062	EA	4' x 20' Preformed Bike Symbol Panel, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Note: Lightgreen background color with white symbol.	1,411.82	
32 17 23 33-0063		Preformed, Patterned Reflective Pavement Marking Tape (32 17 23 33-0001) Note: Applied with pressure sensitive adhesive. Includes adhesive. 60 mil thickness. (3M Stamark 380 Series).		
32 17 23 33-0064	LF	Single 4" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping Note: Includes yellow or white.	2.94	
		For Up To 5,000 LF, Add	0.59	
		For >25,000 LF, Deduct	-0.44	
32 17 23 33-0065	LF	Single 6" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping Note: Includes yellow or white.	4.34	
		For Up To 5,000 LF, Add	0.87	
		For >25,000 LF, Deduct	-0.65	
32 17 23 33-0066	LF	Single 8" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping Note: Includes yellow or white.	5.77	
		For Up To 5,000 LF, Add	1.15	
		For >25,000 LF, Deduct	-0.87	
32 17 23 33-0067	LF	Single 12" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping Note: Includes yellow or white.	8.55	
		For Up To 5,000 LF, Add	1.71	
		For >25,000 LF, Deduct	-1.28	
32 17 23 33-0068	SF	Solid Area, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Marking Tape Note: Includes yellow or white.	24.14	
32 17 23 33-0069	EA	6" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape For <10, Add	35.80	
		For >50 To 100, Deduct	1.21	
		For >100 To 200, Deduct	-0.61	
		For >200, Deduct	-0.81	
			-1.62	
32 17 23 33-0070	EA	12" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape For <10, Add	62.99	
		For >50 To 100, Deduct	1.54	
		For >100 To 200, Deduct	-0.77	
		For >200, Deduct	-1.03	
			-2.05	
32 17 23 33-0071	EA	24" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape For <10, Add	108.36	
		For >50 To 100, Deduct	3.05	
		For >100 To 200, Deduct	-1.52	
		For >200, Deduct	-2.03	
			-4.06	
32 17 23 33-0072	EA	36" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape For <10, Add	157.02	
		For >50 To 100, Deduct	6.10	
		For >100 To 200, Deduct	-3.05	
		For >200, Deduct	-4.07	
			-8.13	
32 17 23 33-0073	EA	48" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape For <10, Add	183.94	
		For >50 To 100, Deduct	6.84	
		For >100 To 200, Deduct	-3.42	
		For >200, Deduct	-4.56	
			-9.12	
32 17 23 33-0074	EA	72" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape For <10, Add	236.62	
		For >50 To 100, Deduct	12.17	
		For >100 To 200, Deduct	-6.08	
		For >200, Deduct	-8.11	
			-16.22	
32 17 23 33-0075	EA	96" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape For <10, Add	301.97	
		For >50 To 100, Deduct	16.34	
		For >100 To 200, Deduct	-8.17	
		For >200, Deduct	-10.89	
			-21.78	
32 17 23 33-0076	EA	120" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape For <10, Add	378.43	
		For >50 To 100, Deduct	20.24	
		For >100 To 200, Deduct	-10.12	
		For >200, Deduct	-13.50	
			-26.99	
32 17 23 33-0077	SF	Preformed Arrow, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape	24.92	
32 17 23 33-0078	SF	Preformed Symbol, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape..... Note: Handicap, railroad, diamond symbol, etc.	26.41	
32 17 23 33-0079		Thermoplastic Pavement Striping, Letters And Symbols For Parking Areas (32 17 23 33)		
32 17 23 33-0080		Thermoplastic Pavement Marking Symbols For Parking Areas (32 17 23 33-0079) Note: Heat applied. (Flint PreMark Series).		
32 17 23 33-0081	EA	28" Handicap Symbol For Standard Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas Note: White or blue symbol. Excludes striping.	122.69	
32 17 23 33-0082	EA	39" Handicap Symbol For Standard Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas Note: Approximate overall dimensions: 2-2/3' width x 3' height. White or blue symbol. Excludes striping.	455.49	
32 17 23 33-0083	EA	40" x 40" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas Note: White symbol on blue background. Excludes striping.	259.06	
32 17 23 33-0084	EA	45" x 45" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas Note: White symbol on blue background. Excludes striping.	310.85	



Exterior Improvements			32
Bases, Ballasts, and Paving			32 10
Paving Specialties			32 17

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0085	EA		48" x 48" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas Note: White symbol on blue background. Excludes striping.	325.73	
32 17 26 Tactile Warning Surfaces (32 17)					
32 17 26 00-0001			Vitrified Polymer Composite (VPC); (Armor Tile) (32 17 26) Note: Truncated dome, raised strips or directional bars. All colors.		
32 17 26 00-0002	SF		Surface Applied VPC Truncated Dome Detectable Warning Surface..... Note: Includes adhesive, fasteners and sealant at perimeter. Also raised strips or directional bars. All colors.	68.41	9.77
32 17 26 00-0003	SF		Embedded, VPC Truncated Dome Detectable Warning Surface..... Note: Also raised strips or directional bars. All colors.	55.71	9.77
32 17 26 00-0004			Fiber-Reinforced, Polymermodified Cement And Coated With Acrylic Resin Emulsion (SatetyStep TD) (32 17 26) Note: Pre-molded tactile dome sheet. All colors.		
32 17 26 00-0005	SF		Up To 15 SF, Surface Applied Pre-Molded Tactile Warning Mat (SSTD-MAT) Note: Includes surface preparation, SSTD-589 adhesive, SSTD-100 top coat sealer and SSTD-1250 finish . All colors. 2' or 3' width.	77.92	9.77
32 17 26 00-0006	SF		>15 To 36 SF, Surface Applied Pre-Molded Tactile Warning Mat (SSTD-MAT)..... Note: Includes surface preparation, SSTD-589 adhesive, SSTD-100 top coat sealer and SSTD-1250 finish . All colors. 2' or 3' width.	69.13	9.77
32 30 Site Improvements (32)					
32 31 Fences and Gates (32 30)					
32 31 11 Gate Operators (32 31)					
32 31 11 00-0001			Gate Operators (32 31 11) Note: Excludes gates, electrical connections, access controls and concrete foundation.		
32 31 11 00-0002			Swing Gate Actuator (DKS™ DoorKing®) (32 31 11 00-0001)		
32 31 11 00-0003			Single Gate, Swing Gate Actuator (32 31 11 00-0002)		
32 31 11 00-0004	EA		Up To 10' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Actuator (DKS™ DoorKing® 6003)..... Note: Includes one primary operator with a 10' wide gate capacity.	1,973.67	214.47
32 31 11 00-0005	EA		Up To 14' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Actuator (DKS™ DoorKing® 6002)..... Note: Includes one primary operator with a 14' wide gate capacity.	2,643.05	214.47
32 31 11 00-0006			Dual Gate, Swing Gate Actuator (32 31 11 00-0002)		
32 31 11 00-0007	EA		Up To 10' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Actuator (DKS™ DoorKing® 6003)..... Note: Includes one primary and one secondary operator each with a 10' wide gate capacity.	3,947.36	428.93
32 31 11 00-0008	EA		Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Actuator (DKS™ DoorKing® 6002)..... Note: Includes one primary and one secondary operator each with a 14' wide gate capacity.	5,286.13	428.93
32 31 11 00-0009			Swing Gate Operators (DKS™ DoorKing®) (32 31 11 00-0001)		
32 31 11 00-0010			Single Gate, Swing Gate Operators (32 31 11 00-0009)		
32 31 11 00-0011	EA		400 LB Capacity, Up To 10' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6050)..... Note: Includes one primary operator with a 10' wide and 400 LB gate capacity.	4,067.65	214.47
32 31 11 00-0012	EA		500 LB Capacity, Up To 14' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6100)..... Note: Includes one primary operator with a 14' wide and 500 LB gate capacity.	4,428.08	214.47
32 31 11 00-0013	EA		700 LB Capacity, Up To 18' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6500)..... Note: Includes one primary operator with an 18' wide and 700 LB gate capacity.	6,024.31	214.47
32 31 11 00-0014	EA		For 208/230/460 Volt AC, Add 800 LB Capacity, Up To 22' Wide Gate, 1 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6500)..... Note: Includes one primary operator with a 22' wide and 800 LB gate capacity.	322.50 6,831.01 322.50	214.47
32 31 11 00-0015			Dual Gate, Swing Gate Operators (32 31 11 00-0009)		
32 31 11 00-0016	EA		400 LB Capacity, Up To 10' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6050)..... Note: Includes one primary and one secondary operator each with a 10' wide and 400 LB gate capacity.	7,191.30	428.93
32 31 11 00-0017	EA		500 LB Capacity, Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6100)..... Note: Includes one primary and one secondary operator each with a 14' wide and 500 LB gate capacity.	7,912.18	428.93
32 31 11 00-0018	EA		700 LB Capacity, Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6500)..... Note: Includes one primary and one secondary operator each with an 18' wide and 700 LB gate capacity.	11,087.48 322.50	428.93

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 11 00-0019	EA	800 LB Capacity, Up To 22' Wide Gates, 1 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6500).....	12,855.34	428.93
		Note: Includes one primary and one secondary operator each with a 22' wide and 800 LB gate capacity. For 208/230/460 Volt AC, Add	322.50	
32 31 11 00-0020		Sliding Gate Operators (DKS™ DoorKing®) (32 31 11 00-0001)		
		Note: Includes 20' of chain. See CSI section 32 31 11 00-0029 for additional chain over 20'.		
32 31 11 00-0021	EA	300 LB Capacity, Up To 16' Wide Gate, 1/2 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9050).....	1,828.17	214.47
		Note: Includes operator, chain brackets, hardware and 20' of #41 chain.		
32 31 11 00-0022	EA	1,000 LB Capacity, Up To 30' Wide Gate, 1/2 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9100).....	2,549.99	257.36
		Note: Includes operator, chain brackets, hardware and 20' of #41 chain.		
32 31 11 00-0023	EA	1,500 LB Capacity, Up To 45' Wide Gate, 1 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9150).....	3,143.61	257.36
		Note: Includes operator, chain brackets, hardware and 20' of #40 chain.		
32 31 11 00-0024	EA	3,000 LB Capacity, Up To 100' Wide Gate, 1 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9210).....	4,098.61	300.25
		Note: Includes operator, chain brackets, hardware and 20' of #50 chain.		
32 31 11 00-0025	EA	2,000 LB Capacity, Up To 100' Wide Gate, 1 HP Motor, 208/230 Volt AC, Variable Speed, Sliding Gate Operator (DKS™ DoorKing® 9220).....	5,014.48	300.25
		Note: Includes operator, chain brackets, hardware and 20' of #50 chain.		
32 31 11 00-0026	EA	5,000 LB Capacity, Up To 100' Wide Gate, 3 HP Motor, 208/230 Volt AC, Variable Speed, Sliding Gate Operator (DKS™ DoorKing® 9230).....	6,830.24	343.15
		Note: Includes operator, chain brackets, hardware and 20' of #60 chain.		
32 31 11 00-0027	EA	5,000 LB Capacity, Up To 100' Wide Gate, 3 HP Motor, 208/230 Volt AC, High Speed, Sliding Gate Operator (DKS™ DoorKing® 9530).....	11,371.42	343.15
		Note: Includes operator, chain brackets, hardware and 20' of #60 chain.		
32 31 11 00-0028	EA	10,000 LB Capacity, Up To 160' Wide Gate, 5 HP Motor, 208/230 Volt AC, High Speed, Sliding Gate Operator (DKS™ DoorKing® 9550).....	19,242.06	386.05
		Note: Includes operator, chain brackets, hardware and 20' of #60 chain.		
32 31 11 00-0029		Accessories For Gate Actuators And Operators (DKS™ DoorKing®) (32 31 11 00-0001)		
32 31 11 00-0030	EA	Single Channel Detector Loop For Gate Actuators And Operators (DKS™ DoorKing® 9410).....	642.67	
32 31 11 00-0031	EA	Two Channel Detector Loop For Gate Actuators And Operators (DKS™ DoorKing® 9409).....	1,249.30	
32 31 11 00-0032	EA	Heater Kit For Gate Actuators And Operators (DKS™ DoorKing® 1601).....	858.13	
32 31 11 00-0033	EA	Photoelectric Eye For Gate Actuators And Operators (DKS™ DoorKing® 8080-031).....	926.75	
32 31 11 00-0034	EA	Reversing Edge Sensor For Gate Actuators And Operators (DKS™ DoorKing® 8080-020).....	823.76	
32 31 11 00-0035	EA	Post Mount Base Plate For Gate Actuators And Operators (DKS™ DoorKing® 9310).....	574.89	
32 31 11 00-0036	LF	#40 Chain For Sliding Gate Operators.....	5.71	
32 31 11 00-0037	LF	#41 Chain For Sliding Gate Operators.....	5.97	
32 31 11 00-0038	LF	#50 Chain For Sliding Gate Operators.....	7.61	
32 31 11 00-0039	LF	#60 Chain For Sliding Gate Operators.....	11.69	
32 31 11 00-0040	EA	Exterior Keypad Gate Operator (Linear AK-11).....	777.18	185.55
32 31 11 00-0041		Sliding Gate Operator (LiftMaster) (32 31 11 00-0001)		
32 31 11 00-0042	EA	Up To 1,500 LB Capacity, 120/230 Volt, Single Phase, Sliding Gate Operator With 24 Volt DC Motor (Liftmaster® CSL24U).....	2,940.46	263.32
		Note: Includes 30' Chain, Retro-Reflective Photoelectric Sensor and Reflector Hoods (LMRRUL) and 5' Resistive Safety Edge (S505AL).		
		For Monitored Wireless Edge Receiver And Transmitter Option (Liftmaster LMWEKITU), Add	199.72	
		For Plug-In Loop Detector Option (Liftmaster LOOPDETL), Add	142.96	
		For LED Strobe Light With Siren (Liftmaster SL-1301-SAQ), Add	70.40	
		For 10 Watt Solar Panel (Liftmaster SP10W12V), Add	282.98	
		For Each Additional 10' Chain, Add	42.39	
32 31 13		Chain Link Fences and Gates (32 31)		
32 31 13 13		Chain Link Fences and Gates (32 31 13)		
32 31 13 13-0001		Post Holes (32 31 13 13)		
		Note: Excludes spreading of excess material on site or loading and removal of excavated material from site. See CSI section 02 41 19 13-0027 for core drilling in concrete, 02 41 19 13-0165 for core drilling in asphalt.		
32 31 13 13-0002		Auger By Machine Fence Post Hole In Soil (32 31 13 13-0001)		
32 31 13 13-0003	VLF	Up To 2-1/2" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	9.72	
32 31 13 13-0004	VLF	2-1/2" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	10.93	
32 31 13 13-0005	VLF	3" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	12.96	
32 31 13 13-0006	VLF	4" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	14.57	
32 31 13 13-0007	VLF	6" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	15.90	
32 31 13 13-0008	VLF	8" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	17.49	
32 31 13 13-0009	VLF	10" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	19.43	
32 31 13 13-0010	VLF	12" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	21.86	
32 31 13 13-0011	VLF	18" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	24.99	
32 31 13 13-0012	VLF	24" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	29.15	
32 31 13 13-0013	VLF	30" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	34.98	
32 31 13 13-0014	VLF	36" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	43.72	



Exterior Improvements		32
Site Improvements		32 30
Fences and Gates		32 31

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0015		Post Hole In Rock (32 31 13 13-0001)		
32 31 13 13-0016	CF	Jackhammer Post Hole In Rock.....	70.77	
32 31 13 13-0017	CF	Rock Drill Post Hole In Rock.....	20.88	
32 31 13 13-0018		Fill For Post Holes (32 31 13 13-0001)		
32 31 13 13-0019		Concrete Fill For Post Holes (32 31 13 13-0018)		
32 31 13 13-0020	VLF	Up To 2-1/2" Diameter, Concrete Fill For Post Hole.....	6.57	
32 31 13 13-0021	VLF	2-1/2" Diameter, Concrete Fill For Post Hole.....	8.42	
32 31 13 13-0022	VLF	3" Diameter, Concrete Fill For Post Hole.....	9.38	
32 31 13 13-0023	VLF	4" Diameter, Concrete Fill For Post Hole.....	11.02	
32 31 13 13-0024	VLF	6" Diameter, Concrete Fill For Post Hole.....	15.70	
32 31 13 13-0025	VLF	8" Diameter, Concrete Fill For Post Hole.....	20.96	
32 31 13 13-0026	VLF	10" Diameter, Concrete Fill For Post Hole.....	25.72	
32 31 13 13-0027	VLF	12" Diameter, Concrete Fill For Post Hole.....	30.15	
32 31 13 13-0028	VLF	18" Diameter, Concrete Fill For Post Hole.....	41.81	
32 31 13 13-0029	VLF	24" Diameter, Concrete Fill For Post Hole.....	52.62	
32 31 13 13-0030	VLF	30" Diameter, Concrete Fill For Post Hole.....	63.22	
32 31 13 13-0031	VLF	36" Diameter, Concrete Fill For Post Hole.....	74.35	
32 31 13 13-0032		Grout Fill For Post Holes (32 31 13 13-0018)		
32 31 13 13-0033	VLF	Up To 2-1/2" Diameter, Grout Fill For Post Hole.....	7.57	
32 31 13 13-0034	VLF	2-1/2" Diameter, Grout Fill For Post Hole.....	9.71	
32 31 13 13-0035	VLF	3" Diameter, Grout Fill For Post Hole.....	10.69	
32 31 13 13-0036	VLF	4" Diameter, Grout Fill For Post Hole.....	12.27	
32 31 13 13-0037	VLF	6" Diameter, Grout Fill For Post Hole.....	17.32	
32 31 13 13-0038	VLF	8" Diameter, Grout Fill For Post Hole.....	23.12	
32 31 13 13-0039	VLF	10" Diameter, Grout Fill For Post Hole.....	28.28	
32 31 13 13-0040	VLF	12" Diameter, Grout Fill For Post Hole.....	32.99	
32 31 13 13-0041	VLF	18" Diameter, Grout Fill For Post Hole.....	44.91	
32 31 13 13-0042	VLF	24" Diameter, Grout Fill For Post Hole.....	55.71	
32 31 13 13-0043	VLF	30" Diameter, Grout Fill For Post Hole.....	66.25	
32 31 13 13-0044	VLF	36" Diameter, Grout Fill For Post Hole.....	77.17	
32 31 13 13-0045		Compacted Earth Fill For Post Holes (32 31 13 13-0018)		
32 31 13 13-0046	VLF	Up To 2-1/2" Diameter, Compacted Earth Fill For Post Hole.....	4.77	
32 31 13 13-0047	VLF	2-1/2" Diameter, Compacted Earth Fill For Post Hole.....	6.21	
32 31 13 13-0048	VLF	3" Diameter, Compacted Earth Fill For Post Hole.....	6.50	
32 31 13 13-0049	VLF	4" Diameter, Compacted Earth Fill For Post Hole.....	6.68	
32 31 13 13-0050	VLF	6" Diameter, Compacted Earth Fill For Post Hole.....	8.93	
32 31 13 13-0051	VLF	8" Diameter, Compacted Earth Fill For Post Hole.....	11.91	
32 31 13 13-0052	VLF	10" Diameter, Compacted Earth Fill For Post Hole.....	14.30	
32 31 13 13-0053	VLF	12" Diameter, Compacted Earth Fill For Post Hole.....	16.21	
32 31 13 13-0054	VLF	18" Diameter, Compacted Earth Fill For Post Hole.....	19.75	
32 31 13 13-0055	VLF	24" Diameter, Compacted Earth Fill For Post Hole.....	22.16	
32 31 13 13-0056	VLF	30" Diameter, Compacted Earth Fill For Post Hole.....	24.31	
32 31 13 13-0057	VLF	36" Diameter, Compacted Earth Fill For Post Hole.....	26.21	
32 31 13 13-0058		Fence Posts (32 31 13 13)		
		Note: Demolition excludes concrete footing removal on posts and excavation. See CSI section 31 23 16 36-0009 for hand excavation for footing removal (where required), 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 13 13-0059		Fence Posts (32 31 13 13-0058)		
32 31 13 13-0060		1-7/8" H-Beam Post Without Top Rail Fitting, Galvanized Steel (32 31 13 13-0059)		
		Note: Includes cap and accessories.		
32 31 13 13-0061	LF	1-7/8" Galvanized H-beam Post, Up To 6' In Length.....	20.23	3.28
		For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0062	LF	1-7/8" Galvanized H-beam Post, 7' To 10' In Length.....	19.29	2.79
		For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0063	LF	1-7/8" Galvanized H-beam Post, 11' To 15' In Length.....	18.16	2.31
		For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0064	LF	1-7/8" Galvanized H-beam Post, 16' To 20' In Length.....	17.25	1.82
		For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0065	LF	1-7/8" Galvanized H-beam Post, 21' To 24' In Length.....	16.64	1.58
		For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0066	LF	1-7/8" Galvanized H-beam Post, >24' In Length.....	15.69	1.09
		For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0067		Post Without Top Rail Fitting, Galvanized Steel (1.66" Nominal) (32 31 13 13-0059)		
		Note: 1-5/8" outside diameter, Schedule 40. Includes cap and accessories.		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0068	LF	Up To 6' In Length, 1-5/8" Outside Diameter Galvanized Steel Post.....	13.87	3.03
		For Each Top Rail Fitting, Add	0.85	
		For Each Single Barbed Wire Arm, Add	1.90	
		For Each Double Barbed Wire Arm, Add	3.40	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	1.95	
		For Vinyl Coated, Add	4.69	
		For Powder Coated, Add	6.25	
		For Aluminum Coated, Add	9.76	
		For Schedule 20, Deduct	-1.56	
		For Schedule 80, Add	4.35	
32 31 13 13-0069	LF	7' To 10' In Length, 1-5/8" Outside Diameter Galvanized Steel Post.....	12.86	2.55
		For Each Top Rail Fitting, Add	0.85	
		For Each Single Barbed Wire Arm, Add	1.90	
		For Each Double Barbed Wire Arm, Add	3.40	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	1.93	
		For Vinyl Coated, Add	4.64	
		For Powder Coated, Add	6.18	
		For Aluminum Coated, Add	9.66	
		For Schedule 20, Deduct	-1.55	
		For Schedule 80, Add	4.22	
32 31 13 13-0070	LF	11' To 15' In Length, 1-5/8" Outside Diameter Galvanized Steel Post.....	11.78	2.06
		For Each Top Rail Fitting, Add	0.85	
		For Each Single Barbed Wire Arm, Add	1.90	
		For Each Double Barbed Wire Arm, Add	3.40	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	1.92	
		For Vinyl Coated, Add	4.61	
		For Powder Coated, Add	6.15	
		For Aluminum Coated, Add	9.61	
		For Schedule 20, Deduct	-1.54	
		For Schedule 80, Add	4.10	
32 31 13 13-0071	LF	16' To 20' In Length, 1-5/8" Outside Diameter Galvanized Steel Post.....	10.95	1.58
		For Each Top Rail Fitting, Add	0.85	
		For Each Single Barbed Wire Arm, Add	1.90	
		For Each Double Barbed Wire Arm, Add	3.40	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	1.92	
		For Vinyl Coated, Add	4.60	
		For Powder Coated, Add	6.14	
		For Aluminum Coated, Add	9.59	
		For Schedule 20, Deduct	-1.53	
		For Schedule 80, Add	4.01	
32 31 13 13-0072	LF	21' To 24' In Length, 1-5/8" Outside Diameter Galvanized Steel Post.....	10.40	1.34
		For Each Top Rail Fitting, Add	0.85	
		For Each Single Barbed Wire Arm, Add	1.90	
		For Each Double Barbed Wire Arm, Add	3.40	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	1.92	
		For Vinyl Coated, Add	4.60	
		For Powder Coated, Add	6.13	
		For Aluminum Coated, Add	9.58	
		For Schedule 20, Deduct	-1.53	
		For Schedule 80, Add	3.95	
32 31 13 13-0073	LF	>24' In Length, 1-5/8" Outside Diameter Galvanized Steel Post.....	9.80	1.09
		For Each Top Rail Fitting, Add	0.85	
		For Each Single Barbed Wire Arm, Add	1.90	
		For Each Double Barbed Wire Arm, Add	3.40	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	1.92	
		For Vinyl Coated, Add	4.60	
		For Powder Coated, Add	6.13	
		For Aluminum Coated, Add	9.58	
		For Schedule 20, Deduct	-1.53	
		For Schedule 80, Add	3.89	
32 31 13 13-0074		Post Without Top Rail Fitting, Galvanized Steel (1.90" Nominal) (32 31 13 13-0059)		
		Note: 2" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0075	LF	2" Outside Diameter Galvanized Steel Post, Up To 6' In Length.....	15.83	3.15
		For Each Top Rail Fitting, Add	1.35	
		For Each Single Barbed Wire Arm, Add	2.65	
		For Each Double Barbed Wire Arm, Add	4.88	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	2.39	
		For Vinyl Coated, Add	5.73	
		For Powder Coated, Add	7.64	
		For Aluminum Coated, Add	11.94	
		For Schedule 20, Deduct	-1.91	
		For Schedule 80, Add	5.21	
32 31 13 13-0076	LF	2" Outside Diameter Galvanized Steel Post, 7' To 10' In Length.....	14.88	2.67
		For Each Top Rail Fitting, Add	1.35	
		For Each Single Barbed Wire Arm, Add	2.65	
		For Each Double Barbed Wire Arm, Add	4.88	
		For SS40 (Hot-Dip Galvanized And Chromated), Add	2.36	
		For Vinyl Coated, Add	5.67	
		For Powder Coated, Add	7.56	
		For Aluminum Coated, Add	11.81	
		For Schedule 20, Deduct	-1.89	
		For Schedule 80, Add	5.08	



Exterior Improvements	32	
Site Improvements	32 30	32
Fences and Gates	32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0077	LF		2" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	13.74	2.18
			For Each Top Rail Fitting, Add	1.35	
			For Each Single Barbed Wire Arm, Add	2.65	
			For Each Double Barbed Wire Arm, Add	4.88	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	2.35	
			For Vinyl Coated, Add	5.64	
			For Powder Coated, Add	7.52	
			For Aluminum Coated, Add	11.75	
			For Schedule 20, Deduct	-1.88	
			For Schedule 80, Add	4.95	
32 31 13 13-0078	LF		2" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	12.85	1.69
			For Each Top Rail Fitting, Add	1.35	
			For Each Single Barbed Wire Arm, Add	2.65	
			For Each Double Barbed Wire Arm, Add	4.88	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	2.35	
			For Vinyl Coated, Add	5.63	
			For Powder Coated, Add	7.50	
			For Aluminum Coated, Add	11.73	
			For Schedule 20, Deduct	-1.88	
			For Schedule 80, Add	4.85	
32 31 13 13-0079	LF		2" Outside Diameter Galvanized Steel Post, 21' To 24' In Length	12.25	1.46
			For Each Top Rail Fitting, Add	1.35	
			For Each Single Barbed Wire Arm, Add	2.65	
			For Each Double Barbed Wire Arm, Add	4.88	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	2.34	
			For Vinyl Coated, Add	5.62	
			For Powder Coated, Add	7.49	
			For Aluminum Coated, Add	11.70	
			For Schedule 20, Deduct	-1.87	
			For Schedule 80, Add	4.78	
32 31 13 13-0080	LF		2" Outside Diameter Galvanized Steel Post, >24' In Length	11.71	1.21
			For Each Top Rail Fitting, Add	1.35	
			For Each Single Barbed Wire Arm, Add	2.65	
			For Each Double Barbed Wire Arm, Add	4.88	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	2.34	
			For Vinyl Coated, Add	5.62	
			For Powder Coated, Add	7.49	
			For Aluminum Coated, Add	11.70	
			For Schedule 20, Deduct	-1.87	
			For Schedule 80, Add	4.73	
32 31 13 13-0081			Post Without Top Rail Fitting, Galvanized Steel (2.375" Nominal) (32 31 13 13-0059)		
			Note: 2-1/2" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0082	LF		2-1/2" Outside Diameter Galvanized Steel Post, Up To 6' In Length	19.26	3.40
			For Each Top Rail Fitting, Add	1.35	
			For Each Single Barbed Wire Arm, Add	2.65	
			For Each Double Barbed Wire Arm, Add	4.88	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	3.16	
			For Vinyl Coated, Add	7.58	
			For Powder Coated, Add	10.11	
			For Aluminum Coated, Add	15.80	
			For Schedule 20, Deduct	-2.53	
			For Schedule 80, Add	6.73	
32 31 13 13-0083	LF		2-1/2" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	18.21	2.91
			For Each Top Rail Fitting, Add	1.35	
			For Each Single Barbed Wire Arm, Add	2.65	
			For Each Double Barbed Wire Arm, Add	4.88	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	3.13	
			For Vinyl Coated, Add	7.52	
			For Powder Coated, Add	10.02	
			For Aluminum Coated, Add	15.66	
			For Schedule 20, Deduct	-2.51	
			For Schedule 80, Add	6.58	
32 31 13 13-0084	LF		2-1/2" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	17.02	2.31
			For Each Top Rail Fitting, Add	1.35	
			For Each Single Barbed Wire Arm, Add	2.65	
			For Each Double Barbed Wire Arm, Add	4.88	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	3.12	
			For Vinyl Coated, Add	7.48	
			For Powder Coated, Add	9.98	
			For Aluminum Coated, Add	15.59	
			For Schedule 20, Deduct	-2.49	
			For Schedule 80, Add	6.44	
32 31 13 13-0085	LF		2-1/2" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	16.08	1.82
			For Each Top Rail Fitting, Add	1.35	
			For Each Single Barbed Wire Arm, Add	2.65	
			For Each Double Barbed Wire Arm, Add	4.88	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	3.11	
			For Vinyl Coated, Add	7.46	
			For Powder Coated, Add	9.95	
			For Aluminum Coated, Add	15.55	
			For Schedule 20, Deduct	-2.49	
			For Schedule 80, Add	6.34	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0086	LF	2-1/2" Outside Diameter Galvanized Steel Post, 21 To 24' In Length.....	15.46	1.58
			For Each Top Rail Fitting, Add	1.35	
			For Each Single Barbed Wire Arm, Add	2.65	
			For Each Double Barbed Wire Arm, Add	4.88	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	3.11	
			For Vinyl Coated, Add	7.46	
			For Powder Coated, Add	9.94	
			For Aluminum Coated, Add	15.54	
			For Schedule 20, Deduct	-2.49	
			For Schedule 80, Add	6.27	
32 31 13	13-0087	LF	2-1/2" Outside Diameter Galvanized Steel Post, >24' In Length.....	14.89	1.21
			For Each Top Rail Fitting, Add	1.35	
			For Each Single Barbed Wire Arm, Add	2.65	
			For Each Double Barbed Wire Arm, Add	4.88	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	3.11	
			For Vinyl Coated, Add	7.46	
			For Powder Coated, Add	9.94	
			For Aluminum Coated, Add	15.54	
			For Schedule 20, Deduct	-2.49	
			For Schedule 80, Add	6.21	
32 31 13 13-0088 Post Without Top Rail Fitting, Galvanized Steel (2.875" Nominal) (32 31 13 13-0059)					
Note: 3" outside diameter, Schedule 40. Includes cap and accessories.					
32 31 13	13-0089	LF	3" Outside Diameter Galvanized Steel Post, Up To 6' In Length	26.35	3.64
			For Each Top Rail Fitting, Add	1.85	
			For Each Single Barbed Wire Arm, Add	3.85	
			For Each Double Barbed Wire Arm, Add	7.05	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	4.77	
			For Vinyl Coated, Add	11.44	
			For Powder Coated, Add	15.26	
			For Aluminum Coated, Add	23.84	
			For Schedule 20, Deduct	-3.81	
			For Schedule 80, Add	9.88	
32 31 13	13-0090	LF	3" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	25.11	3.15
			For Each Top Rail Fitting, Add	1.85	
			For Each Single Barbed Wire Arm, Add	3.85	
			For Each Double Barbed Wire Arm, Add	7.05	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	4.71	
			For Vinyl Coated, Add	11.30	
			For Powder Coated, Add	15.06	
			For Aluminum Coated, Add	23.54	
			For Schedule 20, Deduct	-3.77	
			For Schedule 80, Add	9.67	
32 31 13	13-0091	LF	3" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	23.77	2.55
			For Each Top Rail Fitting, Add	1.85	
			For Each Single Barbed Wire Arm, Add	3.85	
			For Each Double Barbed Wire Arm, Add	7.05	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	4.68	
			For Vinyl Coated, Add	11.23	
			For Powder Coated, Add	14.97	
			For Aluminum Coated, Add	23.39	
			For Schedule 20, Deduct	-3.74	
			For Schedule 80, Add	9.49	
32 31 13	13-0092	LF	3" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	22.70	2.06
			For Each Top Rail Fitting, Add	1.85	
			For Each Single Barbed Wire Arm, Add	3.85	
			For Each Double Barbed Wire Arm, Add	7.05	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	4.66	
			For Vinyl Coated, Add	11.19	
			For Powder Coated, Add	14.92	
			For Aluminum Coated, Add	23.31	
			For Schedule 20, Deduct	-3.73	
			For Schedule 80, Add	9.36	
32 31 13	13-0093	LF	3" Outside Diameter Galvanized Steel Post, 21' To 24' In Length	21.99	1.69
			For Each Top Rail Fitting, Add	1.85	
			For Each Single Barbed Wire Arm, Add	3.85	
			For Each Double Barbed Wire Arm, Add	7.05	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	4.66	
			For Vinyl Coated, Add	11.17	
			For Powder Coated, Add	14.90	
			For Aluminum Coated, Add	23.28	
			For Schedule 20, Deduct	-3.72	
			For Schedule 80, Add	9.27	
32 31 13	13-0094	LF	3" Outside Diameter Galvanized Steel Post, >24' In Length	21.36	1.34
			For Each Top Rail Fitting, Add	1.85	
			For Each Single Barbed Wire Arm, Add	3.85	
			For Each Double Barbed Wire Arm, Add	7.05	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	4.66	
			For Vinyl Coated, Add	11.17	
			For Powder Coated, Add	14.90	
			For Aluminum Coated, Add	23.28	
			For Schedule 20, Deduct	-3.72	
			For Schedule 80, Add	9.21	



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0095			Post Without Top Rail Fitting, Galvanized Steel, (4.00" Nominal) (32 31 13 13-0095) Note: 4" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0096	LF		4" Outside Diameter Galvanized Steel Post, Up To 6' In Length	38.76	3.88
			For Each Top Rail Fitting, Add	2.60	
			For Each Single Barbed Wire Arm, Add	5.10	
			For Each Double Barbed Wire Arm, Add	11.25	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	7.77	
			For Vinyl Coated, Add	18.65	
			For Powder Coated, Add	24.87	
			For Aluminum Coated, Add	38.86	
			For Schedule 20, Deduct	-6.22	
			For Schedule 80, Add	15.69	
32 31 13 13-0097	LF		4" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	37.05	3.15
			For Each Top Rail Fitting, Add	2.60	
			For Each Single Barbed Wire Arm, Add	5.10	
			For Each Double Barbed Wire Arm, Add	11.25	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	7.67	
			For Vinyl Coated, Add	18.40	
			For Powder Coated, Add	24.53	
			For Aluminum Coated, Add	38.33	
			For Schedule 20, Deduct	-6.13	
			For Schedule 80, Add	15.36	
32 31 13 13-0098	LF		4" Outside Diameter Galvanized Steel Post, 11' To 15' In Length	35.77	2.67
			For Each Top Rail Fitting, Add	2.60	
			For Each Single Barbed Wire Arm, Add	5.10	
			For Each Double Barbed Wire Arm, Add	11.25	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	7.61	
			For Vinyl Coated, Add	18.27	
			For Powder Coated, Add	24.36	
			For Aluminum Coated, Add	38.06	
			For Schedule 20, Deduct	-6.09	
			For Schedule 80, Add	15.15	
32 31 13 13-0099	LF		4" Outside Diameter Galvanized Steel Post, 16' To 20' In Length	34.60	2.18
			For Each Top Rail Fitting, Add	2.60	
			For Each Single Barbed Wire Arm, Add	5.10	
			For Each Double Barbed Wire Arm, Add	11.25	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	7.59	
			For Vinyl Coated, Add	18.20	
			For Powder Coated, Add	24.27	
			For Aluminum Coated, Add	37.93	
			For Schedule 20, Deduct	-6.07	
			For Schedule 80, Add	14.99	
32 31 13 13-0100	LF		4" Outside Diameter Galvanized Steel Post, 21' To 24' In Length	34.55	2.18
			For Each Top Rail Fitting, Add	2.60	
			For Each Single Barbed Wire Arm, Add	5.10	
			For Each Double Barbed Wire Arm, Add	11.25	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	7.57	
			For Vinyl Coated, Add	18.17	
			For Powder Coated, Add	24.23	
			For Aluminum Coated, Add	37.86	
			For Schedule 20, Deduct	-6.06	
			For Schedule 80, Add	14.97	
32 31 13 13-0101	LF		4" Outside Diameter Galvanized Steel Post, >24' In Length	33.31	1.58
			For Each Top Rail Fitting, Add	2.60	
			For Each Single Barbed Wire Arm, Add	5.10	
			For Each Double Barbed Wire Arm, Add	11.25	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	7.57	
			For Vinyl Coated, Add	18.17	
			For Powder Coated, Add	24.22	
			For Aluminum Coated, Add	37.85	
			For Schedule 20, Deduct	-6.06	
			For Schedule 80, Add	14.84	
32 31 13 13-0102			Post Without Top Rail Fitting, Galvanized Steel (6.625" Nominal) (32 31 13 13-0099) Note: 6-5/8" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0103	LF		6-5/8" Outside Diameter Galvanized Steel Post, Up To 6' In Length	76.22	4.25
			For Each Top Rail Fitting, Add	4.55	
			For Each Single Barbed Wire Arm, Add	7.15	
			For Each Double Barbed Wire Arm, Add	14.95	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	16.93	
			For Vinyl Coated, Add	40.62	
			For Powder Coated, Add	54.16	
			For Aluminum Coated, Add	84.63	
			For Schedule 20, Deduct	-13.54	
			For Schedule 80, Add	33.35	
32 31 13 13-0104	LF		6-5/8" Outside Diameter Galvanized Steel Post, 7' To 10' In Length	73.21	3.52
			For Each Top Rail Fitting, Add	4.55	
			For Each Single Barbed Wire Arm, Add	7.15	
			For Each Double Barbed Wire Arm, Add	14.95	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	16.52	
			For Vinyl Coated, Add	39.65	
			For Powder Coated, Add	52.86	
			For Aluminum Coated, Add	82.60	
			For Schedule 20, Deduct	-13.22	
			For Schedule 80, Add	32.43	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0105 LF 6-5/8" Outside Diameter Galvanized Steel Post, 11' To 15' In Length.....	71.20	2.91
For Each Top Rail Fitting, Add	4.55	
For Each Single Barbed Wire Arm, Add	7.15	
For Each Double Barbed Wire Arm, Add	14.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	16.32	
For Vinyl Coated, Add	39.17	
For Powder Coated, Add	52.22	
For Aluminum Coated, Add	81.60	
For Schedule 20, Deduct	-13.06	
For Schedule 80, Add	31.93	
32 31 13 13-0106 LF 6-5/8" Outside Diameter Galvanized Steel Post, 16' To 20' In Length.....	69.60	2.31
For Each Top Rail Fitting, Add	4.55	
For Each Single Barbed Wire Arm, Add	7.15	
For Each Double Barbed Wire Arm, Add	14.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	16.22	
For Vinyl Coated, Add	38.92	
For Powder Coated, Add	51.90	
For Aluminum Coated, Add	81.09	
For Schedule 20, Deduct	-12.97	
For Schedule 80, Add	31.61	
32 31 13 13-0107 LF 6-5/8" Outside Diameter Galvanized Steel Post, 21' To 24' In Length.....	68.72	2.06
For Each Top Rail Fitting, Add	4.55	
For Each Single Barbed Wire Arm, Add	7.15	
For Each Double Barbed Wire Arm, Add	14.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	16.17	
For Vinyl Coated, Add	38.80	
For Powder Coated, Add	51.74	
For Aluminum Coated, Add	80.84	
For Schedule 20, Deduct	-12.93	
For Schedule 80, Add	31.45	
32 31 13 13-0108 LF 6-5/8" Outside Diameter Galvanized Steel Post, >24' In Length.....	68.00	1.69
For Each Top Rail Fitting, Add	4.55	
For Each Single Barbed Wire Arm, Add	7.15	
For Each Double Barbed Wire Arm, Add	14.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	16.16	
For Vinyl Coated, Add	38.78	
For Powder Coated, Add	51.70	
For Aluminum Coated, Add	80.79	
For Schedule 20, Deduct	-12.93	
For Schedule 80, Add	31.36	
32 31 13 13-0109 Post Without Top Rail Fitting, Galvanized Steel (8.625" Nominal) (32 31 13 13-0059)		
Note: 8-5/8" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0110 LF 8-5/8" Outside Diameter Galvanized Steel Post, Up To 6' In Length.....	147.92	4.74
For Each Top Rail Fitting, Add	7.50	
For Each Single Barbed Wire Arm, Add	9.15	
For Each Double Barbed Wire Arm, Add	18.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	34.62	
For Vinyl Coated, Add	83.08	
For Powder Coated, Add	110.78	
For Aluminum Coated, Add	173.09	
For Schedule 20, Deduct	-27.69	
For Schedule 80, Add	67.41	
32 31 13 13-0111 LF 8-5/8" Outside Diameter Galvanized Steel Post, 7' To 10' In Length.....	143.17	4.00
For Each Top Rail Fitting, Add	7.50	
For Each Single Barbed Wire Arm, Add	9.15	
For Each Double Barbed Wire Arm, Add	18.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	33.82	
For Vinyl Coated, Add	81.16	
For Powder Coated, Add	108.21	
For Aluminum Coated, Add	169.08	
For Schedule 20, Deduct	-27.05	
For Schedule 80, Add	65.72	
32 31 13 13-0112 LF 8-5/8" Outside Diameter Galvanized Steel Post, 11' To 15' In Length.....	140.21	3.28
For Each Top Rail Fitting, Add	7.50	
For Each Single Barbed Wire Arm, Add	9.15	
For Each Double Barbed Wire Arm, Add	18.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	33.42	
For Vinyl Coated, Add	80.20	
For Powder Coated, Add	106.93	
For Aluminum Coated, Add	167.08	
For Schedule 20, Deduct	-26.73	
For Schedule 80, Add	64.81	
32 31 13 13-0113 LF 8-5/8" Outside Diameter Galvanized Steel Post, 16' To 20' In Length.....	138.06	2.55
For Each Top Rail Fitting, Add	7.50	
For Each Single Barbed Wire Arm, Add	9.15	
For Each Double Barbed Wire Arm, Add	18.95	
For SS40 (Hot-Dip Galvanized And Chromated), Add	33.22	
For Vinyl Coated, Add	79.72	
For Powder Coated, Add	106.29	
For Aluminum Coated, Add	166.08	
For Schedule 20, Deduct	-26.57	
For Schedule 80, Add	64.29	



Exterior Improvements		32	32
Site Improvements		32 30	
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0114	LF		8-5/8" Outside Diameter Galvanized Steel Post, 21' To 24' In Length.....	136.95	2.18
			For Each Top Rail Fitting, Add	7.50	
			For Each Single Barbed Wire Arm, Add	9.15	
			For Each Double Barbed Wire Arm, Add	18.95	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	33.12	
			For Vinyl Coated, Add	79.48	
			For Powder Coated, Add	105.97	
			For Aluminum Coated, Add	165.58	
			For Schedule 20, Deduct	-26.49	
			For Schedule 80, Add	64.03	
32 31 13 13-0115	LF		8-5/8" Outside Diameter Galvanized Steel Post, >24' In Length.....	136.14	1.82
			For Each Top Rail Fitting, Add	7.50	
			For Each Single Barbed Wire Arm, Add	9.15	
			For Each Double Barbed Wire Arm, Add	18.95	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	33.10	
			For Vinyl Coated, Add	79.43	
			For Powder Coated, Add	105.90	
			For Aluminum Coated, Add	165.48	
			For Schedule 20, Deduct	-26.48	
			For Schedule 80, Add	63.92	
32 31 13 13-0116			Driven Post Supports (32 31 13 13)		
			Note: OZ-Post.		
32 31 13 13-0117			Driven Post Support For Round Chain Link Fence Posts (32 31 13 13-0116)		
32 31 13 13-0118	EA		26" Driven Post Support For 1-5/8" Round Chain Link Fence Post.....	73.96	
			Note: OZ-Post GB-700.		
32 31 13 13-0119	EA		26" Driven Post Support For 1-7/8" To 2" Round Chain Link Fence Post.....	73.96	
			Note: OZ-Post HB-700.		
32 31 13 13-0120	EA		26" Driven Post Support For 2-3/8" To 2-1/2" Round Chain Link Fence Post.....	75.81	
			Note: OZ-Post IS-600.		
32 31 13 13-0121	EA		32" Driven Post Support For 2-3/8" To 2-1/2" Round Chain Link Fence Post.....	91.23	
			Note: OZ-Post ISW-850.		
32 31 13 13-0122			Driven Post Support For Square Ornamental Fence Posts (32 31 13 13-0116)		
32 31 13 13-0123	EA		34" Driven Post Support For 1-3/4" Square Ornamental Fence Post.....	85.68	
			Note: OZ-Post C175-850.		
32 31 13 13-0124	EA		24" Driven Post Support For 2" Square Ornamental Fence Post.....	82.91	
			Note: OZ-Post I2-600.		
32 31 13 13-0125	EA		34" Driven Post Support For 2" Square Ornamental Fence Post.....	86.24	
			Note: OZ-Post I2-850.		
32 31 13 13-0126	EA		34" Driven Post Support For 2-1/2" Square Ornamental Fence Post.....	91.23	
			Note: OZ-Post I25-850.		
32 31 13 13-0127	EA		34" Driven Post Support For 3" Square Ornamental Fence Post.....	91.23	
			Note: OZ-Post I3-850.		
32 31 13 13-0128			Driven Post Support For Wooden Fence Posts (32 31 13 13-0116)		
32 31 13 13-0129	EA		24" Driven Post Support For 3-1/2" Square Wooden Fence Post.....	83.81	
			Note: OZ-Post T4-600.		
32 31 13 13-0130	EA		34" Driven Post Support For 3-1/2" Square Wooden Fence Post.....	88.45	
			Note: OZ-Post T4-850.		
32 31 13 13-0131	EA		34" Driven Post Support For 3-3/4" Square Wooden Fence Post.....	94.92	
			Note: OZ-Post C4-850.		
32 31 13 13-0132	EA		34" Driven Post Support For 4" Square Wooden Fence Post.....	94.92	
			Note: OZ-Post P4-850.		
32 31 13 13-0133	EA		36" Driven Post Support For 4" x 6" Wooden Fence Post.....	106.93	
			Note: OZ-Post T46-850.		
32 31 13 13-0134	EA		36" Driven Post Support For 6" Square Wooden Fence Post.....	115.43	
			Note: OZ-Post T6-850.		
32 31 13 13-0135			Driven Post Support For Vinyl Fence Posts (32 31 13 13-0116)		
32 31 13 13-0136	EA		24" Driven Post Support For 3-1/2" Square Vinyl Fence Post.....	83.81	
			Note: OZ-Post T4-600.		
32 31 13 13-0137	EA		34" Driven Post Support For 3-1/2" Square Vinyl Fence Post.....	88.45	
			Note: OZ-Post T4-850.		
32 31 13 13-0138	EA		34" Driven Post Support For 4" Square Vinyl Fence Post.....	94.92	
			Note: OZ-Post P4-850.		
32 31 13 13-0139	EA		34" Driven Post Support For 5" Square Vinyl Fence Post.....	96.40	
			Note: OZ-Post P4-850.		
32 31 13 13-0140			Chain Link Fence Assemblies (32 31 13 13)		
32 31 13 13-0141			Chain Link Fence Assembly With 2-1/2" Line Post And 3" Corner Posts (32 31 13 13-0140)		
			Note: Includes 2" 9 gauge coiled spring mesh (knuckled selvage), tension bars, post tension bands, wire ties, truss rod (at corners or posts), 1-5/8" top rail, 1-5/8" bottom rail, 2-1/2" line post and 3" corner posts. Posts exclude drilling or augering in soil or rock, concrete or soil fill. Heights indicated are from ground to top of installed pole. Minimum 2' bury with up to one third of exposed post height to be buried in ground. Excludes grounding. Demolition excludes concrete footing removal on posts and excavation. See CSI section 31 23 16 36-0009 for hand excavation for footing removal (where required), 32 31 13 13-0653 for barb wire attachments.		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 31 13 13-0142	Galvanized (32 31 13 13-0141)		
32 31 13 13-0143	LF 3' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	39.46	4.12
	For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	2.78	
	For 13 Gauge Fabric, Deduct	-8.10	
	For 11 Gauge Fabric, Deduct	-4.73	
	For 6 Gauge Fabric, Add	7.43	
	For 1" Mesh Fabric, Add	10.14	
	For 1-3/4" Mesh Fabric, Add	4.05	
	For 2-1/8" Mesh Fabric, Deduct	-2.03	
	For 2-3/8" Mesh Fabric, Deduct	-2.70	
	For Posts 8' On Centers, Add	2.17	
	For Posts 5' On Centers, Add	8.15	
	For Up To 100, Add	7.54	
	For >100 To 250, Add	2.78	
	For >2,500 To 5,000, Deduct	-1.39	
	For >5,000, Deduct	-2.78	
32 31 13 13-0144	LF 3'-6" Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	41.01	4.12
	For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	2.87	
	For 13 Gauge Fabric, Deduct	-8.55	
	For 11 Gauge Fabric, Deduct	-4.99	
	For 6 Gauge Fabric, Add	7.84	
	For 1" Mesh Fabric, Add	10.70	
	For 1-3/4" Mesh Fabric, Add	4.28	
	For 2-1/8" Mesh Fabric, Deduct	-2.14	
	For 2-3/8" Mesh Fabric, Deduct	-2.85	
	For Posts 8' On Centers, Add	2.25	
	For Posts 5' On Centers, Add	8.45	
	For Up To 100, Add	7.79	
	For >100 To 250, Add	2.87	
	For >2,500 To 5,000, Deduct	-1.44	
	For >5,000, Deduct	-2.87	
32 31 13 13-0145	LF 4' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	42.37	4.12
	For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	2.95	
	For 13 Gauge Fabric, Deduct	-8.93	
	For 11 Gauge Fabric, Deduct	-5.22	
	For 6 Gauge Fabric, Add	8.20	
	For 1" Mesh Fabric, Add	11.18	
	For 1-3/4" Mesh Fabric, Add	4.47	
	For 2-1/8" Mesh Fabric, Deduct	-2.24	
	For 2-3/8" Mesh Fabric, Deduct	-2.98	
	For Posts 8' On Centers, Add	2.32	
	For Posts 5' On Centers, Add	8.71	
	For Up To 100, Add	8.02	
	For >100 To 250, Add	2.95	
	For >2,500 To 5,000, Deduct	-1.48	
	For >5,000, Deduct	-2.95	
32 31 13 13-0146	LF 5' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	45.55	4.12
	For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	3.14	
	For 13 Gauge Fabric, Deduct	-9.85	
	For 11 Gauge Fabric, Deduct	-5.75	
	For 6 Gauge Fabric, Add	9.04	
	For 1" Mesh Fabric, Add	12.33	
	For 1-3/4" Mesh Fabric, Add	4.93	
	For 2-1/8" Mesh Fabric, Deduct	-2.47	
	For 2-3/8" Mesh Fabric, Deduct	-3.29	
	For Posts 8' On Centers, Add	2.48	
	For Posts 5' On Centers, Add	9.32	
	For Up To 100, Add	8.55	
	For >100 To 250, Add	3.14	
	For >2,500 To 5,000, Deduct	-1.57	
	For >5,000, Deduct	-3.14	
32 31 13 13-0147	LF 6' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	49.33	4.12
	For Surface Mount On Concrete (Excludes Drilling And Anchors), Add	3.38	
	For 13 Gauge Fabric, Deduct	-10.78	
	For 11 Gauge Fabric, Deduct	-6.30	
	For 6 Gauge Fabric, Add	9.89	
	For 1" Mesh Fabric, Add	13.49	
	For 1-3/4" Mesh Fabric, Add	5.40	
	For 2-1/8" Mesh Fabric, Deduct	-2.70	
	For 2-3/8" Mesh Fabric, Deduct	-3.60	
	For Posts 8' On Centers, Add	2.69	
	For Posts 5' On Centers, Add	10.07	
	For Up To 100, Add	9.23	
	For >100 To 250, Add	3.38	
	For >2,500 To 5,000, Deduct	-1.69	
	For >5,000, Deduct	-3.38	



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0148	LF		7' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	51.19 3.51 -11.18 -6.53 10.26 13.99 5.60 -2.80 -3.73 2.79 10.45 9.58 3.51 -1.76 -3.51	6.19
32 31 13 13-0149	LF		8' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	58.05 3.92 -13.14 -7.67 12.06 16.44 6.58 -3.29 -4.38 3.15 11.77 10.73 3.92 -1.96 -3.92	7.22
32 31 13 13-0150	LF		9' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	61.90 4.16 -14.14 -8.26 12.98 17.70 7.08 -3.54 -4.72 3.35 12.52 11.41 4.16 -2.08 -4.16	9.28
32 31 13 13-0151	LF		10' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	65.76 4.40 -15.14 -8.85 13.90 18.96 7.58 -3.79 -5.06 3.55 13.28 12.08 4.40 -2.20 -4.40	10.31
32 31 13 13-0152	LF		12' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post <i>For Each Additional Foot >12, Add</i> <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	73.00 4.15 4.85 -17.01 -9.94 15.62 21.30 8.52 -4.26 -5.68 3.94 14.70 13.35 4.85 -2.43 -4.85	12.37

32 31 13 13-0153 Vinyl Coated (32 31 13 13-0141)

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0154	LF	4' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post For Powder Coated Framework (Posts, Rails, Hardware), Add For Surface Mount On Concrete (Excludes Drilling And Anchors), Add For 13 Gauge Fabric, Deduct For 11 Gauge Fabric, Deduct For 6 Gauge Fabric, Add For 1" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For 2-3/8" Mesh Fabric, Deduct For Posts 8' On Centers, Add For Posts 5' On Centers, Add For Up To 100, Add For >100 To 250, Add For >2,500 To 5,000, Deduct For >5,000, Deduct	43.86 4.08 3.03 -9.45 -5.52 8.67 11.83 4.73 -2.37 -3.15 2.39 8.98 8.25 3.03 -1.51 -3.03	4.12
32 31 13	13-0155	LF	5' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post For Powder Coated Framework (Posts, Rails, Hardware), Add For Surface Mount On Concrete (Excludes Drilling And Anchors), Add For 13 Gauge Fabric, Deduct For 11 Gauge Fabric, Deduct For 6 Gauge Fabric, Add For 1" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For 2-3/8" Mesh Fabric, Deduct For Posts 8' On Centers, Add For Posts 5' On Centers, Add For Up To 100, Add For >100 To 250, Add For >2,500 To 5,000, Deduct For >5,000, Deduct	47.43 4.53 3.23 -10.50 -6.13 9.64 13.15 5.26 -2.63 -3.51 2.58 9.66 8.84 3.23 -1.62 -3.23	4.12
32 31 13	13-0156	LF	6' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post For Powder Coated Framework (Posts, Rails, Hardware), Add For Surface Mount On Concrete (Excludes Drilling And Anchors), Add For 13 Gauge Fabric, Deduct For 11 Gauge Fabric, Deduct For 6 Gauge Fabric, Add For 1" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For 2-3/8" Mesh Fabric, Deduct For Posts 8' On Centers, Add For Posts 5' On Centers, Add For Up To 100, Add For >100 To 250, Add For >2,500 To 5,000, Deduct For >5,000, Deduct	53.15 5.22 3.57 -12.10 -7.07 11.11 15.15 6.06 -3.03 -4.04 2.88 10.76 9.80 3.57 -1.79 -3.57	4.12
32 31 13	13-0157	LF	7' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post For Powder Coated Framework (Posts, Rails, Hardware), Add For Surface Mount On Concrete (Excludes Drilling And Anchors), Add For 13 Gauge Fabric, Deduct For 11 Gauge Fabric, Deduct For 6 Gauge Fabric, Add For 1" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For 2-3/8" Mesh Fabric, Deduct For Posts 8' On Centers, Add For Posts 5' On Centers, Add For Up To 100, Add For >100 To 250, Add For >2,500 To 5,000, Deduct For >5,000, Deduct	55.63 5.49 3.73 -12.72 -7.43 11.68 15.93 6.37 -3.19 -4.25 3.01 11.25 10.25 3.73 -1.87 -3.73	6.19
32 31 13	13-0158	LF	8' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post For Powder Coated Framework (Posts, Rails, Hardware), Add For Surface Mount On Concrete (Excludes Drilling And Anchors), Add For 13 Gauge Fabric, Deduct For 11 Gauge Fabric, Deduct For 6 Gauge Fabric, Add For 1" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For 2-3/8" Mesh Fabric, Deduct For Posts 8' On Centers, Add For Posts 5' On Centers, Add For Up To 100, Add For >100 To 250, Add For >2,500 To 5,000, Deduct For >5,000, Deduct	63.23 6.45 4.17 -14.94 -8.72 13.71 18.70 7.48 -3.74 -4.99 3.40 12.70 11.51 4.17 -2.09 -4.17	7.22



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0159	LF		9' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post <i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i> <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	67.45 6.94 4.43 -16.07 -9.39 14.75 20.11 8.05 -4.02 -5.36 3.63 13.52 12.24 4.43 -2.22 -4.43	9.28
32 31 13 13-0160	LF		10' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post <i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i> <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	71.69 7.43 4.69 -17.20 -10.05 15.79 21.54 8.61 -4.31 -5.74 3.65 14.35 12.97 4.69 -2.35 -4.69	10.31
32 31 13 13-0161	LF		12' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post <i>For Each Additional Foot >12, Add</i> <i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i> <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >2,500 To 5,000, Deduct</i> <i>For >5,000, Deduct</i>	78.22 4.40 8.13 5.11 -18.83 -11.00 17.28 23.57 9.43 -4.71 -6.28 4.20 15.64 14.14 5.11 -2.56 -5.11	12.37
32 31 13 13-0162			Rails (32 31 13 13) Note: Includes rail end fittings.		
32 31 13 13-0163			SS-20 Chain Link Fence Rails (32 31 13 13-0162) Note: Includes tie wires.		
32 31 13 13-0164	LF		1-3/8" Galvanized Steel Rail, 0.08" Wall Thickness, Tie Wires And Fittings <i>For SS15, Deduct</i> <i>For SS40, Add</i>	7.15 -0.44 1.09	1.34
32 31 13 13-0165	LF		1-3/8" Vinyl Coated Rail, 0.08" Wall Thickness, Tie Wires And Fittings <i>For SS40, Add</i> <i>For Powder Coated, Add</i> <i>For Aluminum Coated, Add</i>	8.62 0.58 1.17 2.33	1.34
32 31 13 13-0166	LF		1-5/8" Galvanized Steel Rail, 0.085" Wall Thickness, Tie Wires And Fittings <i>For SS15, Deduct</i> <i>For SS40, Add</i>	8.84 -0.58 1.45	1.52
32 31 13 13-0167	LF		1-5/8" Vinyl Coated Rail, 0.085" Wall Thickness, Tie Wires And Fittings <i>For SS40, Add</i> <i>For Powder Coated, Add</i> <i>For Aluminum Coated, Add</i>	10.80 0.78 1.55 3.11	1.52
32 31 13 13-0168	LF		2" Galvanized Steel Rail, 0.09" Wall Thickness, Tie Wires And Fittings <i>For SS40, Add</i>	10.37 1.74	1.69
32 31 13 13-0169	LF		2" Vinyl Coated Rail, 0.09" Wall Thickness, Tie Wires And Fittings <i>For SS40, Add</i> <i>For Powder Coated, Add</i> <i>For Aluminum Coated, Add</i>	12.72 0.93 1.66 3.73	1.69
32 31 13 13-0170			Fabric (32 31 13 13)		
32 31 13 13-0171			Fabric, Galvanized Chain Link (32 31 13 13-0170)		

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 31 13 13-0172	LF	3' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	11.57		2.43
		For 1-1/4" Mesh Fabric, Add	1.03		
		For 2 Oz Galvanized Or Zinc Coating, Add	0.92		
		For 13 Gauge Fabric, Deduct	-1.66		
		For 11 Gauge Fabric, Deduct	-0.92		
		For 6 Gauge Fabric, Add	2.94		
		For 1" Mesh Fabric, Add	2.76		
		For 1-1/4" Mesh Fabric, Add	1.84		
		For 1-3/4" Mesh Fabric, Add	1.10		
		For 2-1/8" Mesh Fabric, Deduct	-0.55		
		For 2-3/8" Mesh Fabric, Deduct	-0.74		
32 31 13 13-0173	LF	3'-6" Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh	12.78		2.73
		For 1-1/4" Mesh Fabric, Add	1.20		
		For 2 Oz Galvanized Or Zinc Coating, Add	1.07		
		For 13 Gauge Fabric, Deduct	-1.93		
		For 11 Gauge Fabric, Deduct	-1.07		
		For 6 Gauge Fabric, Add	3.43		
		For 1" Mesh Fabric, Add	3.22		
		For 1-1/4" Mesh Fabric, Add	2.15		
		For 1-3/4" Mesh Fabric, Add	1.29		
		For 2-1/8" Mesh Fabric, Deduct	-0.64		
		For 2-3/8" Mesh Fabric, Deduct	-0.86		
32 31 13 13-0174	LF	4' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	13.81		3.03
		For 1-1/4" Mesh Fabric, Add	1.32		
		For 2 Oz Galvanized Or Zinc Coating, Add	1.18		
		For 13 Gauge Fabric, Deduct	-2.12		
		For 11 Gauge Fabric, Deduct	-1.18		
		For 6 Gauge Fabric, Add	3.77		
		For 1" Mesh Fabric, Add	3.53		
		For 1-1/4" Mesh Fabric, Add	2.36		
		For 1-3/4" Mesh Fabric, Add	1.41		
		For 2-1/8" Mesh Fabric, Deduct	-0.71		
		For 2-3/8" Mesh Fabric, Deduct	-0.94		
32 31 13 13-0175	LF	5' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	15.59		3.64
		For 1-1/4" Mesh Fabric, Add	1.65		
		For 2 Oz Galvanized Or Zinc Coating, Add	1.47		
		For 13 Gauge Fabric, Deduct	-2.65		
		For 11 Gauge Fabric, Deduct	-1.47		
		For 6 Gauge Fabric, Add	4.70		
		For 1" Mesh Fabric, Add	4.41		
		For 1-1/4" Mesh Fabric, Add	2.94		
		For 1-3/4" Mesh Fabric, Add	1.76		
		For 2-1/8" Mesh Fabric, Deduct	-0.88		
		For 2-3/8" Mesh Fabric, Deduct	-1.18		
32 31 13 13-0176	LF	6' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	17.46		4.25
		For 1-1/4" Mesh Fabric, Add	1.98		
		For 2 Oz Galvanized Or Zinc Coating, Add	1.77		
		For 13 Gauge Fabric, Deduct	-3.18		
		For 11 Gauge Fabric, Deduct	-1.77		
		For 6 Gauge Fabric, Add	5.65		
		For 1" Mesh Fabric, Add	5.30		
		For 1-1/4" Mesh Fabric, Add	3.53		
		For 1-3/4" Mesh Fabric, Add	2.12		
		For 2-1/8" Mesh Fabric, Deduct	-1.06		
		For 2-3/8" Mesh Fabric, Deduct	-1.41		
32 31 13 13-0177	LF	7' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	19.42		4.85
		For 1-1/4" Mesh Fabric, Add	2.30		
		For 2 Oz Galvanized Or Zinc Coating, Add	2.06		
		For 13 Gauge Fabric, Deduct	-3.70		
		For 11 Gauge Fabric, Deduct	-2.06		
		For 6 Gauge Fabric, Add	6.58		
		For 1" Mesh Fabric, Add	6.17		
		For 1-1/4" Mesh Fabric, Add	4.11		
		For 1-3/4" Mesh Fabric, Add	2.47		
		For 2-1/8" Mesh Fabric, Deduct	-1.23		
		For 2-3/8" Mesh Fabric, Deduct	-1.64		
32 31 13 13-0178	LF	8' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	21.55		6.06
		For 1-1/4" Mesh Fabric, Add	2.63		
		For 2 Oz Galvanized Or Zinc Coating, Add	2.35		
		For 13 Gauge Fabric, Deduct	-4.23		
		For 11 Gauge Fabric, Deduct	-2.35		
		For 6 Gauge Fabric, Add	7.53		
		For 1" Mesh Fabric, Add	7.06		
		For 1-1/4" Mesh Fabric, Add	4.71		
		For 1-3/4" Mesh Fabric, Add	2.82		
		For 2-1/8" Mesh Fabric, Deduct	-1.41		
		For 2-3/8" Mesh Fabric, Deduct	-1.88		



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0179	LF	10' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	25.61	6.68
			For 1-1/4" Mesh Fabric, Add	3.42	
			For 2 Oz Galvanized Or Zinc Coating, Add	3.06	
			For 13 Gauge Fabric, Deduct	-5.50	
			For 11 Gauge Fabric, Deduct	-3.06	
			For 6 Gauge Fabric, Add	9.78	
			For 1" Mesh Fabric, Add	9.17	
			For 1-1/4" Mesh Fabric, Add	6.11	
			For 1-3/4" Mesh Fabric, Add	3.67	
			For 2-1/8" Mesh Fabric, Deduct	-1.83	
			For 2-3/8" Mesh Fabric, Deduct	-2.44	
32 31 13	13-0180	LF	12' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	29.20	7.28
			For 1-1/4" Mesh Fabric, Add	4.10	
			For 2 Oz Galvanized Or Zinc Coating, Add	3.66	
			For 13 Gauge Fabric, Deduct	-6.59	
			For 11 Gauge Fabric, Deduct	-3.66	
			For 6 Gauge Fabric, Add	11.71	
			For 1" Mesh Fabric, Add	10.98	
			For 1-1/4" Mesh Fabric, Add	7.32	
			For 1-3/4" Mesh Fabric, Add	4.39	
			For 2-1/8" Mesh Fabric, Deduct	-2.20	
			For 2-3/8" Mesh Fabric, Deduct	-2.93	
32 31 13	13-0181	LF	14' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	32.72	8.49
			For 1-1/4" Mesh Fabric, Add	4.40	
			For 2 Oz Galvanized Or Zinc Coating, Add	3.93	
			For 13 Gauge Fabric, Deduct	-7.08	
			For 11 Gauge Fabric, Deduct	-3.93	
			For 6 Gauge Fabric, Add	12.58	
			For 1" Mesh Fabric, Add	11.80	
			For 1-1/4" Mesh Fabric, Add	7.87	
			For 1-3/4" Mesh Fabric, Add	4.72	
			For 2-1/8" Mesh Fabric, Deduct	-2.36	
			For 2-3/8" Mesh Fabric, Deduct	-3.15	
32 31 13	13-0182	LF	16' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	36.23	9.71
			For 1-1/4" Mesh Fabric, Add	4.71	
			For 2 Oz Galvanized Or Zinc Coating, Add	4.20	
			For 13 Gauge Fabric, Deduct	-7.56	
			For 11 Gauge Fabric, Deduct	-4.20	
			For 6 Gauge Fabric, Add	13.45	
			For 1" Mesh Fabric, Add	12.61	
			For 1-1/4" Mesh Fabric, Add	8.41	
			For 1-3/4" Mesh Fabric, Add	5.04	
			For 2-1/8" Mesh Fabric, Deduct	-2.52	
			For 2-3/8" Mesh Fabric, Deduct	-3.36	
32 31 13	13-0183	Fabric, Vinyl Coated Chain Link (32 31 13 13-0170)			
32 31 13	13-0184	LF	4' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	15.31	2.43
			For 1-1/4" Mesh Fabric, Add	1.74	
			For 13 Gauge Fabric, Deduct	-2.79	
			For 11 Gauge Fabric, Deduct	-1.55	
			For 6 Gauge Fabric, Add	4.97	
			For 1" Mesh Fabric, Add	4.66	
			For 1-1/4" Mesh Fabric, Add	3.11	
			For 1-3/4" Mesh Fabric, Add	1.86	
			For 2-1/8" Mesh Fabric, Deduct	-0.93	
			For 2-3/8" Mesh Fabric, Deduct	-1.24	
			For Aluminum Coated, Add	2.48	
32 31 13	13-0185	LF	5' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	17.47	3.64
			For 1-1/4" Mesh Fabric, Add	2.17	
			For 13 Gauge Fabric, Deduct	-3.49	
			For 11 Gauge Fabric, Deduct	-1.94	
			For 6 Gauge Fabric, Add	6.21	
			For 1" Mesh Fabric, Add	5.82	
			For 1-1/4" Mesh Fabric, Add	3.88	
			For 1-3/4" Mesh Fabric, Add	2.33	
			For 2-1/8" Mesh Fabric, Deduct	-1.16	
			For 2-3/8" Mesh Fabric, Deduct	-1.55	
			For Aluminum Coated, Add	3.10	
32 31 13	13-0186	LF	6' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	21.28	4.25
			For 1-1/4" Mesh Fabric, Add	3.05	
			For 13 Gauge Fabric, Deduct	-4.90	
			For 11 Gauge Fabric, Deduct	-2.72	
			For 6 Gauge Fabric, Add	8.70	
			For 1" Mesh Fabric, Add	8.16	
			For 1-1/4" Mesh Fabric, Add	5.44	
			For 1-3/4" Mesh Fabric, Add	3.26	
			For 2-1/8" Mesh Fabric, Deduct	-1.63	
			For 2-3/8" Mesh Fabric, Deduct	-2.18	
			For Aluminum Coated, Add	4.35	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0187	LF	7' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	23.86	4.85
		For 1-1/4" Mesh Fabric, Add	3.54	
		For 13 Gauge Fabric, Deduct	-5.70	
		For 11 Gauge Fabric, Deduct	-3.17	
		For 6 Gauge Fabric, Add	10.13	
		For 1" Mesh Fabric, Add	9.50	
		For 1-1/4" Mesh Fabric, Add	6.33	
		For 1-3/4" Mesh Fabric, Add	3.80	
		For 2-1/8" Mesh Fabric, Deduct	-1.90	
		For 2-3/8" Mesh Fabric, Deduct	-2.53	
		For Aluminum Coated, Add	5.06	
32 31 13 13-0188	LF	8' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	26.72	6.06
		For 1-1/4" Mesh Fabric, Add	4.08	
		For 13 Gauge Fabric, Deduct	-6.56	
		For 11 Gauge Fabric, Deduct	-3.65	
		For 6 Gauge Fabric, Add	11.66	
		For 1" Mesh Fabric, Add	10.94	
		For 1-1/4" Mesh Fabric, Add	7.29	
		For 1-3/4" Mesh Fabric, Add	4.37	
		For 2-1/8" Mesh Fabric, Deduct	-2.19	
		For 2-3/8" Mesh Fabric, Deduct	-2.92	
		For Aluminum Coated, Add	5.83	
32 31 13 13-0189	LF	10' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	31.54	6.68
		For 1-1/4" Mesh Fabric, Add	5.08	
		For 13 Gauge Fabric, Deduct	-8.17	
		For 11 Gauge Fabric, Deduct	-4.54	
		For 6 Gauge Fabric, Add	14.52	
		For 1" Mesh Fabric, Add	13.61	
		For 1-1/4" Mesh Fabric, Add	9.08	
		For 1-3/4" Mesh Fabric, Add	5.45	
		For 2-1/8" Mesh Fabric, Deduct	-2.72	
		For 2-3/8" Mesh Fabric, Deduct	-3.63	
		For Aluminum Coated, Add	7.26	
32 31 13 13-0190	LF	12' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	34.42	7.28
		For 1-1/4" Mesh Fabric, Add	5.56	
		For 13 Gauge Fabric, Deduct	-8.94	
		For 11 Gauge Fabric, Deduct	-4.97	
		For 6 Gauge Fabric, Add	15.89	
		For 1" Mesh Fabric, Add	14.90	
		For 1-1/4" Mesh Fabric, Add	9.93	
		For 1-3/4" Mesh Fabric, Add	5.96	
		For 2-1/8" Mesh Fabric, Deduct	-2.98	
		For 2-3/8" Mesh Fabric, Deduct	-3.97	
		For Aluminum Coated, Add	7.94	
32 31 13 13-0191	LF	14' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	38.85	8.49
		For 1-1/4" Mesh Fabric, Add	6.12	
		For 13 Gauge Fabric, Deduct	-9.84	
		For 11 Gauge Fabric, Deduct	-5.47	
		For 6 Gauge Fabric, Add	17.49	
		For 1" Mesh Fabric, Add	16.40	
		For 1-1/4" Mesh Fabric, Add	10.93	
		For 1-3/4" Mesh Fabric, Add	6.56	
		For 2-1/8" Mesh Fabric, Deduct	-3.28	
		For 2-3/8" Mesh Fabric, Deduct	-4.37	
		For Aluminum Coated, Add	8.74	
32 31 13 13-0192	LF	16' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh	43.37	9.71
		For 1-1/4" Mesh Fabric, Add	6.71	
		For 13 Gauge Fabric, Deduct	-10.78	
		For 11 Gauge Fabric, Deduct	-5.99	
		For 6 Gauge Fabric, Add	19.16	
		For 1" Mesh Fabric, Add	17.96	
		For 1-1/4" Mesh Fabric, Add	11.98	
		For 1-3/4" Mesh Fabric, Add	7.19	
		For 2-1/8" Mesh Fabric, Deduct	-3.59	
		For 2-3/8" Mesh Fabric, Deduct	-4.79	
		For Aluminum Coated, Add	9.58	
32 31 13 13-0193		Fabric, Aluminized Steel Chain Link (32 31 13 13-0170)		
32 31 13 13-0194	LF	3' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	11.27	2.43
		For 6 Gauge Fabric, Add	2.70	
		For 1" Mesh Fabric, Add	3.55	
32 31 13 13-0195	LF	3'-6" Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	12.41	2.73
		For 6 Gauge Fabric, Add	3.14	
		For 1" Mesh Fabric, Add	4.12	
32 31 13 13-0196	LF	4' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	13.59	3.03
		For 6 Gauge Fabric, Add	3.59	
		For 1" Mesh Fabric, Add	4.71	
32 31 13 13-0197	LF	5' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	15.32	3.64
		For 6 Gauge Fabric, Add	4.49	
		For 1" Mesh Fabric, Add	5.89	
32 31 13 13-0198	LF	6' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	17.11	4.25
		For 6 Gauge Fabric, Add	5.37	
		For 1" Mesh Fabric, Add	7.05	
32 31 13 13-0199	LF	7' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh	19.05	4.85
		For 6 Gauge Fabric, Add	6.28	
		For 1" Mesh Fabric, Add	8.24	



Exterior Improvements		32
Site Improvements		32 30
Fences and Gates		32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0200	LF	8'	Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	21.10 7.17 9.41	6.06
32 31 13 13-0201	LF	10'	Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	24.59 8.96 11.76	6.68
32 31 13 13-0202	LF	12'	Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	28.00 10.75 14.11	7.28
32 31 13 13-0203 Fabric, All Aluminum Chain Link (32 31 13 13-0170)					
32 31 13 13-0204	LF	3'	Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	16.72 7.06 9.27	2.43
32 31 13 13-0205	LF	3'-6"	Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	18.79 8.24 10.82	2.73
32 31 13 13-0206	LF	4'	Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	20.87 9.42 12.36	3.03
32 31 13 13-0207	LF	5'	Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	24.42 11.77 15.45	3.64
32 31 13 13-0208	LF	6'	Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	28.06 14.13 18.54	4.25
32 31 13 13-0209	LF	7'	Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	31.80 16.48 21.63	4.85
32 31 13 13-0210	LF	8'	Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	35.68 18.83 24.72	6.06
32 31 13 13-0211	LF	10'	Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	42.82 23.54 30.90	6.68
32 31 13 13-0212	LF	12'	Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	49.87 28.25 37.08	7.28
32 31 13 13-0213 Fence Inserts (32 31 13 13-0170) Note: For use with new or existing chain link fence, per lf of fence.					
32 31 13 13-0214 Vinyl Plastic Fence Inserts (32 31 13 13-0213) Note: Assorted colors.					
32 31 13 13-0215	LF	3'	High Fence, Vinyl Plastic Fence Insert.....	9.18	
32 31 13 13-0216	LF	3-1/2'	High Fence, Vinyl Plastic Fence Insert.....	10.47	
32 31 13 13-0217	LF	4'	High Fence, Vinyl Plastic Fence Insert.....	11.55	
32 31 13 13-0218	LF	5'	High Fence, Vinyl Plastic Fence Insert.....	14.48	
32 31 13 13-0219	LF	6'	High Fence, Vinyl Plastic Fence Insert.....	17.32	
32 31 13 13-0220	LF	7'	High Fence, Vinyl Plastic Fence Insert.....	20.26	
32 31 13 13-0221	LF	8'	High Fence, Vinyl Plastic Fence Insert.....	23.11	
32 31 13 13-0222	LF	10'	High Fence, Vinyl Plastic Fence Insert.....	28.17	
32 31 13 13-0223 Aluminum Fence Inserts (32 31 13 13-0213) Note: Assorted colors.					
32 31 13 13-0224	LF	3'	High Fence, Aluminum Fence Insert.....	31.43	
32 31 13 13-0225	LF	3-1/2'	High Fence, Aluminum Fence Insert.....	34.48	
32 31 13 13-0226	LF	4'	High Fence, Aluminum Fence Insert.....	39.15	
32 31 13 13-0227	LF	5'	High Fence, Aluminum Fence Insert.....	48.99	
32 31 13 13-0228	LF	6'	High Fence, Aluminum Fence Insert.....	58.78	
32 31 13 13-0229	LF	7'	High Fence, Aluminum Fence Insert.....	63.85	
32 31 13 13-0230	LF	8'	High Fence, Aluminum Fence Insert.....	78.36	
32 31 13 13-0231	LF	10'	High Fence, Aluminum Fence Insert.....	97.58	
32 31 13 13-0232 Redwood Fence Inserts (32 31 13 13-0213)					
32 31 13 13-0233	LF	4'	High Fence, Redwood Fence Insert.....	13.34	
32 31 13 13-0234	LF	5'	High Fence, Redwood Fence Insert.....	16.87	
32 31 13 13-0235	LF	6'	High Fence, Redwood Fence Insert.....	20.26	
32 31 13 13-0236	LF	7'	High Fence, Redwood Fence Insert.....	23.59	
32 31 13 13-0237	LF	8'	High Fence, Redwood Fence Insert.....	26.99	
32 31 13 13-0238 Diagonal Flexible Polyethylene Inserts (32 31 13 13-0213)					
32 31 13 13-0239	SF		Diagonal Polyethylene Fence Weave.....	3.66	
32 31 13 13-0240 Hedge Link Fence Inserts (32 31 13 13-0213)					
32 31 13 13-0241	LF	3'	High Fence, Hedge Link Fence Insert.....	19.73	
32 31 13 13-0242	LF	3-1/2'	High Fence, Hedge Link Fence Insert.....	22.47	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 31 13 13-0243	LF	4' High Fence, Hedge Link Fence Insert.....	26.30		
32 31 13 13-0244	LF	5' High Fence, Hedge Link Fence Insert.....	32.43		
32 31 13 13-0245	LF	6' High Fence, Hedge Link Fence Insert.....	37.06		
32 31 13 13-0246	LF	7' High Fence, Hedge Link Fence Insert.....	46.88		
32 31 13 13-0247	LF	8' High Fence, Hedge Link Fence Insert.....	53.24		
32 31 13 13-0248	LF	10' High Fence, Hedge Link Fence Insert.....	63.67		
32 31 13 13-0249	LF	12' High Fence, Hedge Link Fence Insert.....	73.04		
32 31 13 13-0250 Fence Windscreen Fabric (32 31 13 13-0170)					
Note: Includes plastic wire clips.					
32 31 13 13-0251	SF	Vinyl Coated Polyester Windscreen For Fence, 7 Oz Per SY.....	1.23		0.54
		For Sewn Boxed Vent (Each), Add	27.11		
		For Welded Boxed Vent (Each), Add	13.55		
		For 4' x 4' One Color Logo (Each), Add	564.75		
32 31 13 13-0252 Non-Climbable Fabric, Galvanized Chain Link (32 31 13 13-0170)					
32 31 13 13-0253	LF	3' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	31.86		2.43
		For 11 Gauge, Deduct	-4.79		
		For 10 Gauge, Deduct	-1.92		
		For 7 Gauge, Add	2.88		
		For 6 Gauge, Add	6.71		
		For 1/2" Mesh Fabric, Deduct	-1.20		
		For 5/8" Mesh Fabric, Deduct	-2.64		
		For 3/4" Mesh Fabric, Deduct	-3.84		
32 31 13 13-0254	LF	3'-6" Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	36.45		2.73
		For 11 Gauge, Deduct	-5.59		
		For 10 Gauge, Deduct	-2.24		
		For 7 Gauge, Add	3.36		
		For 6 Gauge, Add	7.83		
		For 1/2" Mesh Fabric, Deduct	-1.40		
		For 5/8" Mesh Fabric, Deduct	-3.08		
		For 3/4" Mesh Fabric, Deduct	-4.47		
32 31 13 13-0255	LF	4' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	41.09		3.03
		For 11 Gauge, Deduct	-6.40		
		For 10 Gauge, Deduct	-2.56		
		For 7 Gauge, Add	3.84		
		For 6 Gauge, Add	8.96		
		For 1/2" Mesh Fabric, Deduct	-1.60		
		For 5/8" Mesh Fabric, Deduct	-3.52		
		For 3/4" Mesh Fabric, Deduct	-5.12		
32 31 13 13-0256	LF	5' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	49.68		3.64
		For 11 Gauge, Deduct	-7.99		
		For 10 Gauge, Deduct	-3.20		
		For 7 Gauge, Add	4.80		
		For 6 Gauge, Add	11.19		
		For 1/2" Mesh Fabric, Deduct	-2.00		
		For 5/8" Mesh Fabric, Deduct	-4.40		
		For 3/4" Mesh Fabric, Deduct	-6.40		
32 31 13 13-0257	LF	6' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	58.34		4.25
		For 11 Gauge, Deduct	-9.59		
		For 10 Gauge, Deduct	-3.84		
		For 7 Gauge, Add	5.75		
		For 6 Gauge, Add	13.42		
		For 1/2" Mesh Fabric, Deduct	-2.40		
		For 5/8" Mesh Fabric, Deduct	-5.27		
		For 3/4" Mesh Fabric, Deduct	-7.67		
32 31 13 13-0258	LF	7' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	67.14		4.85
		For 11 Gauge, Deduct	-11.19		
		For 10 Gauge, Deduct	-4.48		
		For 7 Gauge, Add	6.71		
		For 6 Gauge, Add	15.66		
		For 1/2" Mesh Fabric, Deduct	-2.80		
		For 5/8" Mesh Fabric, Deduct	-6.15		
		For 3/4" Mesh Fabric, Deduct	-8.95		
32 31 13 13-0259	LF	8' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	76.08		6.06
		For 11 Gauge, Deduct	-12.79		
		For 10 Gauge, Deduct	-5.12		
		For 7 Gauge, Add	7.67		
		For 6 Gauge, Add	17.90		
		For 1/2" Mesh Fabric, Deduct	-3.20		
		For 5/8" Mesh Fabric, Deduct	-7.03		
		For 3/4" Mesh Fabric, Deduct	-10.23		
32 31 13 13-0260	LF	9' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	83.91		6.38
		For 11 Gauge, Deduct	-14.23		
		For 10 Gauge, Deduct	-5.69		
		For 7 Gauge, Add	8.54		
		For 6 Gauge, Add	19.93		
		For 1/2" Mesh Fabric, Deduct	-3.56		
		For 5/8" Mesh Fabric, Deduct	-7.83		
		For 3/4" Mesh Fabric, Deduct	-11.39		



Exterior Improvements		32	32
Site Improvements		32 30	
Fences and Gates		32 31	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0261	LF	10' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh <i>For 11 Gauge, Deduct</i> <i>For 10 Gauge, Deduct</i> <i>For 7 Gauge, Add</i> <i>For 6 Gauge, Add</i> <i>For 1/2" Mesh Fabric, Deduct</i> <i>For 5/8" Mesh Fabric, Deduct</i> <i>For 3/4" Mesh Fabric, Deduct</i>	91.79 -15.68 -6.27 9.41 21.95 -3.92 -8.62 -12.54	6.68
32 31 13 13-0262	LF	12' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh <i>For 11 Gauge, Deduct</i> <i>For 10 Gauge, Deduct</i> <i>For 7 Gauge, Add</i> <i>For 6 Gauge, Add</i> <i>For 1/2" Mesh Fabric, Deduct</i> <i>For 5/8" Mesh Fabric, Deduct</i> <i>For 3/4" Mesh Fabric, Deduct</i>	99.55 -17.00 -6.80 10.20 23.80 -4.25 -9.35 -13.60	7.28
32 31 13 13-0263		Gates (32 31 13 13) Note: Posts exclude drilling or augering in soil or rock. For barbed wire attached directly to posts and gates, select gates and posts sizes for full finished height of gate above grade (top rail to be at lower height, includes barb wire at top area where mesh would be). See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 13 13-0264		Galvanized Steel Without Barbed Wire (32 31 13 13-0263) Note: Industrial swing gate. Includes posts (3" diameter posts for up to 6' wide gate, 4" diameter for > 6' To 12' wide, 6-5/8" diameter for >12' To 18' wide, 8-5/8" diameter for over 18' wide), 2" diameter schedule pipe frame, offset hinges, cap and hardware (drop rod, center locking device, gate keeper, catch bolt and tension bands). Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating.		
32 31 13 13-0265		4' Fence Height (32 31 13 13-0264)		
32 31 13 13-0266	EA	3' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	347.32 30.11 43.79 -51.32 131.38 71.16 119.06 76.64 47.63 -23.81	23.55
32 31 13 13-0267	EA	4' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	438.56 40.14 58.39 -68.43 175.18 94.89 158.75 102.19 63.50 -31.75	24.54
32 31 13 13-0268	EA	5' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	519.13 48.47 70.50 -82.61 211.49 114.56 191.67 123.37 76.67 -38.33	26.11
32 31 13 13-0269	EA	6' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	610.51 56.79 82.60 -96.80 247.81 134.23 224.58 144.56 89.83 -44.92	31.41
32 31 13 13-0270	EA	7' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	701.87 65.11 94.71 -110.99 284.13 153.90 257.49 165.74 103.00 -51.50	36.61

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0271	EA	8' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	796.34	41.82
			For Gate With Single Barb Wire Arm, Add	73.78	
			For Gate With Double Barb Wire Arm, Add	107.31	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-125.76	
			For Aluminized Steel Gate And Post, Add	321.94	
			For Powder Coated Gate And Post, Add	174.38	
			For 1" Mesh Fabric, Add	291.76	
			For 1-1/4" Mesh Fabric, Add	187.80	
			For 1-3/4" Mesh Fabric, Add	116.70	
			For 2-1/8" Mesh Fabric, Deduct	-58.35	
32 31 13	13-0272	EA	9' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	887.70	47.11
			For Gate With Single Barb Wire Arm, Add	82.10	
			For Gate With Double Barb Wire Arm, Add	119.42	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-139.94	
			For Aluminized Steel Gate And Post, Add	358.26	
			For Powder Coated Gate And Post, Add	194.06	
			For 1" Mesh Fabric, Add	324.67	
			For 1-1/4" Mesh Fabric, Add	208.98	
			For 1-3/4" Mesh Fabric, Add	129.87	
			For 2-1/8" Mesh Fabric, Deduct	-64.93	
32 31 13	13-0273	EA	10' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire	980.39	52.31
			For Gate With Single Barb Wire Arm, Add	90.57	
			For Gate With Double Barb Wire Arm, Add	131.74	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-154.38	
			For Aluminized Steel Gate And Post, Add	395.21	
			For Powder Coated Gate And Post, Add	214.07	
			For 1" Mesh Fabric, Add	358.16	
			For 1-1/4" Mesh Fabric, Add	230.54	
			For 1-3/4" Mesh Fabric, Add	143.26	
			For 2-1/8" Mesh Fabric, Deduct	-71.63	
32 31 13	13-0274	EA	10' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,251.90	52.31
			For Gate With Single Barb Wire Arm, Add	120.43	
			For Gate With Double Barb Wire Arm, Add	175.18	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-205.28	
			For Aluminized Steel Gate And Post, Add	525.53	
			For Powder Coated Gate And Post, Add	284.66	
			For 1" Mesh Fabric, Add	476.26	
			For 1-1/4" Mesh Fabric, Add	306.56	
			For 1-3/4" Mesh Fabric, Add	190.50	
			For 2-1/8" Mesh Fabric, Deduct	-95.25	
32 31 13	13-0275	EA	12' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,482.08	56.05
			For Gate With Single Barb Wire Arm, Add	144.52	
			For Gate With Double Barb Wire Arm, Add	210.21	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-246.34	
			For Aluminized Steel Gate And Post, Add	630.63	
			For Powder Coated Gate And Post, Add	341.59	
			For 1" Mesh Fabric, Add	571.51	
			For 1-1/4" Mesh Fabric, Add	367.87	
			For 1-3/4" Mesh Fabric, Add	228.60	
			For 2-1/8" Mesh Fabric, Deduct	-114.30	
32 31 13	13-0276	EA	14' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,713.99	60.36
			For Gate With Single Barb Wire Arm, Add	168.61	
			For Gate With Double Barb Wire Arm, Add	245.25	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-287.40	
			For Aluminized Steel Gate And Post, Add	735.74	
			For Powder Coated Gate And Post, Add	398.53	
			For 1" Mesh Fabric, Add	666.76	
			For 1-1/4" Mesh Fabric, Add	429.18	
			For 1-3/4" Mesh Fabric, Add	266.71	
			For 2-1/8" Mesh Fabric, Deduct	-133.35	
32 31 13	13-0277	EA	16' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	1,948.07	65.37
			For Gate With Single Barb Wire Arm, Add	192.69	
			For Gate With Double Barb Wire Arm, Add	280.28	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-328.46	
			For Aluminized Steel Gate And Post, Add	840.84	
			For Powder Coated Gate And Post, Add	455.46	
			For 1" Mesh Fabric, Add	762.02	
			For 1-1/4" Mesh Fabric, Add	490.49	
			For 1-3/4" Mesh Fabric, Add	304.81	
			For 2-1/8" Mesh Fabric, Deduct	-152.40	
32 31 13	13-0278	EA	18' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire	2,214.79	81.22
			For Gate With Single Barb Wire Arm, Add	216.78	
			For Gate With Double Barb Wire Arm, Add	315.32	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-369.51	
			For Aluminized Steel Gate And Post, Add	945.95	
			For Powder Coated Gate And Post, Add	512.39	
			For 1" Mesh Fabric, Add	857.27	
			For 1-1/4" Mesh Fabric, Add	551.80	
			For 1-3/4" Mesh Fabric, Add	342.91	
			For 2-1/8" Mesh Fabric, Deduct	-171.45	



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Site Improvements			32 30
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0279	EA	20'	Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	2,451.19 240.87 350.35 -410.57 1,051.06 569.32 952.52 613.12 381.01 -190.50	87.06
32 31 13 13-0280	EA	22'	Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	2,684.92 264.37 384.53 -450.62 1,153.59 624.86 1,045.44 672.93 418.18 -209.09	93.81
32 31 13 13-0281	EA	24'	Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	2,922.02 287.86 418.71 -490.68 1,256.14 680.41 1,138.37 732.75 455.35 -227.67	101.58
32 31 13 13-0282	EA	26'	Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	3,163.38 311.36 452.89 -530.73 1,358.68 735.95 1,231.30 792.56 492.52 -246.26	110.85
32 31 13 13-0283	EA	28'	Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	3,330.18 326.05 474.26 -555.77 1,422.77 770.67 1,289.38 829.95 515.75 -257.88	121.96
32 31 13 13-0284	EA	30'	Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	3,691.30 361.30 525.53 -615.85 1,576.58 853.98 1,428.77 919.67 571.51 -285.75	135.45
32 31 13 13-0285			5' Fence Height (32 31 13 13-0264)		
32 31 13 13-0286	EA	3'	Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	416.77 37.21 54.12 -63.42 162.36 87.95 147.14 94.71 58.86 -29.43	26.11
32 31 13 13-0287	EA	4'	Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add For 1-5/8" Schedule 40 Pipe Frame, Deduct For Aluminized Steel Gate And Post, Add For Powder Coated Gate And Post, Add For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct	528.03 49.45 71.92 -84.28 215.76 116.87 195.54 125.86 78.21 -39.11	26.11

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0288	EA	5' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	617.51	27.78
			For Gate With Single Barb Wire Arm, Add	58.75	
			For Gate With Double Barb Wire Arm, Add	85.45	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-100.14	
			For Aluminized Steel Gate And Post, Add	256.35	
			For Powder Coated Gate And Post, Add	138.86	
			For 1" Mesh Fabric, Add	232.32	
			For 1-1/4" Mesh Fabric, Add	149.54	
			For 1-3/4" Mesh Fabric, Add	92.93	
			For 2-1/8" Mesh Fabric, Deduct	-46.46	
32 31 13	13-0289	EA	6' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	723.20	33.37
			For Gate With Single Barb Wire Arm, Add	68.54	
			For Gate With Double Barb Wire Arm, Add	99.69	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-116.83	
			For Aluminized Steel Gate And Post, Add	299.08	
			For Powder Coated Gate And Post, Add	162.00	
			For 1" Mesh Fabric, Add	271.04	
			For 1-1/4" Mesh Fabric, Add	174.46	
			For 1-3/4" Mesh Fabric, Add	108.42	
			For 2-1/8" Mesh Fabric, Deduct	-54.21	
32 31 13	13-0290	EA	7' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	819.99	38.87
			For Gate With Single Barb Wire Arm, Add	77.35	
			For Gate With Double Barb Wire Arm, Add	112.51	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-131.85	
			For Aluminized Steel Gate And Post, Add	337.53	
			For Powder Coated Gate And Post, Add	182.83	
			For 1" Mesh Fabric, Add	305.89	
			For 1-1/4" Mesh Fabric, Add	196.89	
			For 1-3/4" Mesh Fabric, Add	122.36	
			For 2-1/8" Mesh Fabric, Deduct	-61.18	
32 31 13	13-0291	EA	8' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	926.69	44.76
			For Gate With Single Barb Wire Arm, Add	87.14	
			For Gate With Double Barb Wire Arm, Add	126.75	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-148.54	
			For Aluminized Steel Gate And Post, Add	380.26	
			For Powder Coated Gate And Post, Add	205.97	
			For 1" Mesh Fabric, Add	344.61	
			For 1-1/4" Mesh Fabric, Add	221.82	
			For 1-3/4" Mesh Fabric, Add	137.84	
			For 2-1/8" Mesh Fabric, Deduct	-68.92	
32 31 13	13-0292	EA	9' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	1,027.92	50.35
			For Gate With Single Barb Wire Arm, Add	96.44	
			For Gate With Double Barb Wire Arm, Add	140.28	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-164.39	
			For Aluminized Steel Gate And Post, Add	420.85	
			For Powder Coated Gate And Post, Add	227.96	
			For 1" Mesh Fabric, Add	381.39	
			For 1-1/4" Mesh Fabric, Add	245.50	
			For 1-3/4" Mesh Fabric, Add	152.56	
			For 2-1/8" Mesh Fabric, Deduct	-76.28	
32 31 13	13-0293	EA	10' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire	1,129.17	55.85
			For Gate With Single Barb Wire Arm, Add	105.75	
			For Gate With Double Barb Wire Arm, Add	153.81	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-180.25	
			For Aluminized Steel Gate And Post, Add	461.44	
			For Powder Coated Gate And Post, Add	249.95	
			For 1" Mesh Fabric, Add	418.18	
			For 1-1/4" Mesh Fabric, Add	269.17	
			For 1-3/4" Mesh Fabric, Add	167.27	
			For 2-1/8" Mesh Fabric, Deduct	-83.64	
32 31 13	13-0294	EA	10' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	1,524.80	56.05
			For Gate With Single Barb Wire Arm, Add	149.22	
			For Gate With Double Barb Wire Arm, Add	217.05	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-254.35	
			For Aluminized Steel Gate And Post, Add	651.14	
			For Powder Coated Gate And Post, Add	352.70	
			For 1" Mesh Fabric, Add	590.09	
			For 1-1/4" Mesh Fabric, Add	379.83	
			For 1-3/4" Mesh Fabric, Add	236.04	
			For 2-1/8" Mesh Fabric, Deduct	-118.02	
32 31 13	13-0295	EA	12' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	1,810.12	60.36
			For Gate With Single Barb Wire Arm, Add	179.18	
			For Gate With Double Barb Wire Arm, Add	260.63	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-305.42	
			For Aluminized Steel Gate And Post, Add	781.88	
			For Powder Coated Gate And Post, Add	423.52	
			For 1" Mesh Fabric, Add	708.58	
			For 1-1/4" Mesh Fabric, Add	456.10	
			For 1-3/4" Mesh Fabric, Add	283.43	
			For 2-1/8" Mesh Fabric, Deduct	-141.72	



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Site Improvements			32 30
Fences and Gates			32 31

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0296 EA 14' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	2,097.61	65.37
For Gate With Single Barb Wire Arm, Add	209.14	
For Gate With Double Barb Wire Arm, Add	304.21	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-356.49	
For Aluminized Steel Gate And Post, Add	912.62	
For Powder Coated Gate And Post, Add	494.34	
For 1" Mesh Fabric, Add	827.07	
For 1-1/4" Mesh Fabric, Add	532.36	
For 1-3/4" Mesh Fabric, Add	330.83	
For 2-1/8" Mesh Fabric, Deduct	-165.41	
32 31 13 13-0297 EA 16' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	2,417.73	81.22
For Gate With Single Barb Wire Arm, Add	239.10	
For Gate With Double Barb Wire Arm, Add	347.79	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-407.56	
For Aluminized Steel Gate And Post, Add	1,043.36	
For Powder Coated Gate And Post, Add	565.15	
For 1" Mesh Fabric, Add	945.55	
For 1-1/4" Mesh Fabric, Add	608.63	
For 1-3/4" Mesh Fabric, Add	378.22	
For 2-1/8" Mesh Fabric, Deduct	-189.11	
32 31 13 13-0298 EA 18' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	2,702.20	87.06
For Gate With Single Barb Wire Arm, Add	268.48	
For Gate With Double Barb Wire Arm, Add	390.51	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-457.63	
For Aluminized Steel Gate And Post, Add	1,171.54	
For Powder Coated Gate And Post, Add	634.58	
For 1" Mesh Fabric, Add	1,061.71	
For 1-1/4" Mesh Fabric, Add	683.40	
For 1-3/4" Mesh Fabric, Add	424.68	
For 2-1/8" Mesh Fabric, Deduct	-212.34	
32 31 13 13-0299 EA 20' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	3,000.03	93.81
For Gate With Single Barb Wire Arm, Add	299.03	
For Gate With Double Barb Wire Arm, Add	434.95	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-509.71	
For Aluminized Steel Gate And Post, Add	1,304.85	
For Powder Coated Gate And Post, Add	706.79	
For 1" Mesh Fabric, Add	1,182.52	
For 1-1/4" Mesh Fabric, Add	761.16	
For 1-3/4" Mesh Fabric, Add	473.01	
For 2-1/8" Mesh Fabric, Deduct	-236.50	
32 31 13 13-0300 EA 22' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	3,295.87	101.58
For Gate With Single Barb Wire Arm, Add	328.99	
For Gate With Double Barb Wire Arm, Add	478.53	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-560.78	
For Aluminized Steel Gate And Post, Add	1,435.58	
For Powder Coated Gate And Post, Add	777.61	
For 1" Mesh Fabric, Add	1,301.00	
For 1-1/4" Mesh Fabric, Add	837.42	
For 1-3/4" Mesh Fabric, Add	520.40	
For 2-1/8" Mesh Fabric, Deduct	-260.20	
32 31 13 13-0301 EA 24' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	3,590.64	110.85
For Gate With Single Barb Wire Arm, Add	358.36	
For Gate With Double Barb Wire Arm, Add	521.25	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-610.85	
For Aluminized Steel Gate And Post, Add	1,563.76	
For Powder Coated Gate And Post, Add	847.04	
For 1" Mesh Fabric, Add	1,417.16	
For 1-1/4" Mesh Fabric, Add	912.20	
For 1-3/4" Mesh Fabric, Add	566.86	
For 2-1/8" Mesh Fabric, Deduct	-283.43	
32 31 13 13-0302 EA 26' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	3,901.64	121.96
For Gate With Single Barb Wire Arm, Add	388.91	
For Gate With Double Barb Wire Arm, Add	565.69	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-662.92	
For Aluminized Steel Gate And Post, Add	1,697.07	
For Powder Coated Gate And Post, Add	919.25	
For 1" Mesh Fabric, Add	1,537.97	
For 1-1/4" Mesh Fabric, Add	989.96	
For 1-3/4" Mesh Fabric, Add	615.19	
For 2-1/8" Mesh Fabric, Deduct	-307.59	
32 31 13 13-0303 EA 28' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	4,211.33	135.45
For Gate With Single Barb Wire Arm, Add	418.50	
For Gate With Double Barb Wire Arm, Add	608.73	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-713.36	
For Aluminized Steel Gate And Post, Add	1,826.19	
For Powder Coated Gate And Post, Add	989.19	
For 1" Mesh Fabric, Add	1,654.99	
For 1-1/4" Mesh Fabric, Add	1,065.28	
For 1-3/4" Mesh Fabric, Add	662.00	
For 2-1/8" Mesh Fabric, Deduct	-331.00	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0304 EA 30' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire	4,527.24	152.38
For Gate With Single Barb Wire Arm, Add	447.66	
For Gate With Double Barb Wire Arm, Add	651.14	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-763.06	
For Aluminized Steel Gate And Post, Add	1,953.42	
For Powder Coated Gate And Post, Add	1,058.10	
For 1" Mesh Fabric, Add	1,770.29	
For 1-1/4" Mesh Fabric, Add	1,139.50	
For 1-3/4" Mesh Fabric, Add	708.12	
For 2-1/8" Mesh Fabric, Deduct	-354.06	
32 31 13 13-0305 6' Fence Height (32 31 13 13-0264)		
32 31 13 13-0306 EA 3' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	446.85	27.98
For Gate With Single Barb Wire Arm, Add	39.90	
For Gate With Double Barb Wire Arm, Add	58.04	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-68.01	
For Aluminized Steel Gate And Post, Add	174.11	
For Powder Coated Gate And Post, Add	94.31	
For 1" Mesh Fabric, Add	157.78	
For 1-1/4" Mesh Fabric, Add	101.56	
For 1-3/4" Mesh Fabric, Add	63.11	
For 2-1/8" Mesh Fabric, Deduct	-31.56	
32 31 13 13-0307 EA 4' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	567.02	27.98
For Gate With Single Barb Wire Arm, Add	53.12	
For Gate With Double Barb Wire Arm, Add	77.26	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-90.54	
For Aluminized Steel Gate And Post, Add	231.79	
For Powder Coated Gate And Post, Add	125.55	
For 1" Mesh Fabric, Add	210.06	
For 1-1/4" Mesh Fabric, Add	135.21	
For 1-3/4" Mesh Fabric, Add	84.02	
For 2-1/8" Mesh Fabric, Deduct	-42.01	
32 31 13 13-0308 EA 5' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	664.13	29.74
For Gate With Single Barb Wire Arm, Add	63.23	
For Gate With Double Barb Wire Arm, Add	91.97	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-107.78	
For Aluminized Steel Gate And Post, Add	275.90	
For Powder Coated Gate And Post, Add	149.45	
For 1" Mesh Fabric, Add	250.04	
For 1-1/4" Mesh Fabric, Add	160.94	
For 1-3/4" Mesh Fabric, Add	100.02	
For 2-1/8" Mesh Fabric, Deduct	-50.01	
32 31 13 13-0309 EA 6' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	771.11	35.93
For Gate With Single Barb Wire Arm, Add	72.95	
For Gate With Double Barb Wire Arm, Add	106.10	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-124.34	
For Aluminized Steel Gate And Post, Add	318.31	
For Powder Coated Gate And Post, Add	172.42	
For 1" Mesh Fabric, Add	288.47	
For 1-1/4" Mesh Fabric, Add	185.68	
For 1-3/4" Mesh Fabric, Add	115.39	
For 2-1/8" Mesh Fabric, Deduct	-57.69	
32 31 13 13-0310 EA 7' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	883.21	42.21
For Gate With Single Barb Wire Arm, Add	83.23	
For Gate With Double Barb Wire Arm, Add	121.06	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-141.86	
For Aluminized Steel Gate And Post, Add	363.17	
For Powder Coated Gate And Post, Add	196.72	
For 1" Mesh Fabric, Add	329.12	
For 1-1/4" Mesh Fabric, Add	211.85	
For 1-3/4" Mesh Fabric, Add	131.65	
For 2-1/8" Mesh Fabric, Deduct	-65.82	
32 31 13 13-0311 EA 8' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	989.88	48.09
For Gate With Single Barb Wire Arm, Add	93.02	
For Gate With Double Barb Wire Arm, Add	135.30	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-158.55	
For Aluminized Steel Gate And Post, Add	405.89	
For Powder Coated Gate And Post, Add	219.86	
For 1" Mesh Fabric, Add	367.84	
For 1-1/4" Mesh Fabric, Add	236.77	
For 1-3/4" Mesh Fabric, Add	147.14	
For 2-1/8" Mesh Fabric, Deduct	-73.57	
32 31 13 13-0312 EA 9' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	1,097.56	54.28
For Gate With Single Barb Wire Arm, Add	102.81	
For Gate With Double Barb Wire Arm, Add	149.54	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-175.24	
For Aluminized Steel Gate And Post, Add	448.62	
For Powder Coated Gate And Post, Add	243.00	
For 1" Mesh Fabric, Add	406.56	
For 1-1/4" Mesh Fabric, Add	261.70	
For 1-3/4" Mesh Fabric, Add	162.63	
For 2-1/8" Mesh Fabric, Deduct	-81.31	



Exterior Improvements	32	32
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0313 EA 10' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire	1,165.15	60.46
For Gate With Single Barb Wire Arm, Add	108.19	
For Gate With Double Barb Wire Arm, Add	157.37	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-184.42	
For Aluminized Steel Gate And Post, Add	472.12	
For Powder Coated Gate And Post, Add	255.73	
For 1" Mesh Fabric, Add	427.86	
For 1-1/4" Mesh Fabric, Add	275.40	
For 1-3/4" Mesh Fabric, Add	171.14	
For 2-1/8" Mesh Fabric, Deduct	-85.57	
32 31 13 13-0314 EA 10' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	1,628.54	60.36
For Gate With Single Barb Wire Arm, Add	159.21	
For Gate With Double Barb Wire Arm, Add	231.57	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-271.38	
For Aluminized Steel Gate And Post, Add	694.72	
For Powder Coated Gate And Post, Add	376.31	
For 1" Mesh Fabric, Add	629.59	
For 1-1/4" Mesh Fabric, Add	405.26	
For 1-3/4" Mesh Fabric, Add	251.84	
For 2-1/8" Mesh Fabric, Deduct	-125.92	
32 31 13 13-0315 EA 12' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	1,932.04	65.37
For Gate With Single Barb Wire Arm, Add	190.93	
For Gate With Double Barb Wire Arm, Add	277.72	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-325.45	
For Aluminized Steel Gate And Post, Add	833.15	
For Powder Coated Gate And Post, Add	451.29	
For 1" Mesh Fabric, Add	755.04	
For 1-1/4" Mesh Fabric, Add	486.00	
For 1-3/4" Mesh Fabric, Add	302.02	
For 2-1/8" Mesh Fabric, Deduct	-151.01	
32 31 13 13-0316 EA 14' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	2,290.96	87.06
For Gate With Single Barb Wire Arm, Add	223.24	
For Gate With Double Barb Wire Arm, Add	324.72	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-380.53	
For Aluminized Steel Gate And Post, Add	974.15	
For Powder Coated Gate And Post, Add	527.66	
For 1" Mesh Fabric, Add	882.82	
For 1-1/4" Mesh Fabric, Add	568.25	
For 1-3/4" Mesh Fabric, Add	353.13	
For 2-1/8" Mesh Fabric, Deduct	-176.56	
32 31 13 13-0317 EA 16' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	2,599.47	93.81
For Gate With Single Barb Wire Arm, Add	254.97	
For Gate With Double Barb Wire Arm, Add	370.86	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-434.60	
For Aluminized Steel Gate And Post, Add	1,112.58	
For Powder Coated Gate And Post, Add	602.65	
For 1" Mesh Fabric, Add	1,008.27	
For 1-1/4" Mesh Fabric, Add	649.00	
For 1-3/4" Mesh Fabric, Add	403.31	
For 2-1/8" Mesh Fabric, Deduct	-201.65	
32 31 13 13-0318 EA 18' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	2,916.68	101.58
For Gate With Single Barb Wire Arm, Add	287.28	
For Gate With Double Barb Wire Arm, Add	417.86	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-489.68	
For Aluminized Steel Gate And Post, Add	1,253.57	
For Powder Coated Gate And Post, Add	679.02	
For 1" Mesh Fabric, Add	1,136.05	
For 1-1/4" Mesh Fabric, Add	731.25	
For 1-3/4" Mesh Fabric, Add	454.42	
For 2-1/8" Mesh Fabric, Deduct	-227.21	
32 31 13 13-0319 EA 20' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	3,238.15	110.85
For Gate With Single Barb Wire Arm, Add	319.59	
For Gate With Double Barb Wire Arm, Add	464.86	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-544.75	
For Aluminized Steel Gate And Post, Add	1,394.57	
For Powder Coated Gate And Post, Add	755.39	
For 1" Mesh Fabric, Add	1,263.83	
For 1-1/4" Mesh Fabric, Add	813.50	
For 1-3/4" Mesh Fabric, Add	505.53	
For 2-1/8" Mesh Fabric, Deduct	-252.77	
32 31 13 13-0320 EA 22' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	3,559.83	121.96
For Gate With Single Barb Wire Arm, Add	351.31	
For Gate With Double Barb Wire Arm, Add	511.00	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-598.83	
For Aluminized Steel Gate And Post, Add	1,533.00	
For Powder Coated Gate And Post, Add	830.38	
For 1" Mesh Fabric, Add	1,389.28	
For 1-1/4" Mesh Fabric, Add	894.25	
For 1-3/4" Mesh Fabric, Add	555.71	
For 2-1/8" Mesh Fabric, Deduct	-277.86	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0321 EA 24' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	3,891.58	135.45
For Gate With Single Barb Wire Arm, Add	383.33	
For Gate With Double Barb Wire Arm, Add	557.57	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-653.40	
For Aluminized Steel Gate And Post, Add	1,672.71	
For Powder Coated Gate And Post, Add	906.05	
For 1" Mesh Fabric, Add	1,515.90	
For 1-1/4" Mesh Fabric, Add	975.75	
For 1-3/4" Mesh Fabric, Add	606.36	
For 2-1/8" Mesh Fabric, Deduct	-303.18	
32 31 13 13-0322 EA 26' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	4,230.29	152.38
For Gate With Single Barb Wire Arm, Add	414.99	
For Gate With Double Barb Wire Arm, Add	603.63	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-707.38	
For Aluminized Steel Gate And Post, Add	1,810.89	
For Powder Coated Gate And Post, Add	980.90	
For 1" Mesh Fabric, Add	1,641.12	
For 1-1/4" Mesh Fabric, Add	1,056.35	
For 1-3/4" Mesh Fabric, Add	656.45	
For 2-1/8" Mesh Fabric, Deduct	-328.22	
32 31 13 13-0323 EA 28' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	4,587.26	174.12
For Gate With Single Barb Wire Arm, Add	447.07	
For Gate With Double Barb Wire Arm, Add	650.29	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-762.05	
For Aluminized Steel Gate And Post, Add	1,950.86	
For Powder Coated Gate And Post, Add	1,056.72	
For 1" Mesh Fabric, Add	1,767.97	
For 1-1/4" Mesh Fabric, Add	1,138.00	
For 1-3/4" Mesh Fabric, Add	707.19	
For 2-1/8" Mesh Fabric, Deduct	-353.59	
32 31 13 13-0324 EA 30' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	4,966.56	203.18
For Gate With Single Barb Wire Arm, Add	479.21	
For Gate With Double Barb Wire Arm, Add	697.03	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-816.83	
For Aluminized Steel Gate And Post, Add	2,091.09	
For Powder Coated Gate And Post, Add	1,132.67	
For 1" Mesh Fabric, Add	1,895.05	
For 1-1/4" Mesh Fabric, Add	1,219.80	
For 1-3/4" Mesh Fabric, Add	758.02	
For 2-1/8" Mesh Fabric, Deduct	-379.01	
32 31 13 13-0325 7' Fence Height (32 31 13 13-0264)		
32 31 13 13-0326 EA 3' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	468.90	30.13
For Gate With Single Barb Wire Arm, Add	41.61	
For Gate With Double Barb Wire Arm, Add	60.53	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-70.93	
For Aluminized Steel Gate And Post, Add	181.58	
For Powder Coated Gate And Post, Add	98.36	
For 1" Mesh Fabric, Add	164.56	
For 1-1/4" Mesh Fabric, Add	105.92	
For 1-3/4" Mesh Fabric, Add	65.82	
For 2-1/8" Mesh Fabric, Deduct	-32.91	
32 31 13 13-0327 EA 4' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	593.52	30.13
For Gate With Single Barb Wire Arm, Add	55.32	
For Gate With Double Barb Wire Arm, Add	80.47	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-94.30	
For Aluminized Steel Gate And Post, Add	241.40	
For Powder Coated Gate And Post, Add	130.76	
For 1" Mesh Fabric, Add	218.77	
For 1-1/4" Mesh Fabric, Add	140.82	
For 1-3/4" Mesh Fabric, Add	87.51	
For 2-1/8" Mesh Fabric, Deduct	-43.75	
32 31 13 13-0328 EA 5' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	699.06	31.70
For Gate With Single Barb Wire Arm, Add	66.42	
For Gate With Double Barb Wire Arm, Add	96.62	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-113.22	
For Aluminized Steel Gate And Post, Add	289.85	
For Powder Coated Gate And Post, Add	157.00	
For 1" Mesh Fabric, Add	262.68	
For 1-1/4" Mesh Fabric, Add	169.08	
For 1-3/4" Mesh Fabric, Add	105.07	
For 2-1/8" Mesh Fabric, Deduct	-52.54	
32 31 13 13-0329 EA 6' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	856.75	38.57
For Gate With Single Barb Wire Arm, Add	81.50	
For Gate With Double Barb Wire Arm, Add	118.55	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-138.93	
For Aluminized Steel Gate And Post, Add	355.65	
For Powder Coated Gate And Post, Add	192.64	
For 1" Mesh Fabric, Add	322.31	
For 1-1/4" Mesh Fabric, Add	207.46	
For 1-3/4" Mesh Fabric, Add	128.92	
For 2-1/8" Mesh Fabric, Deduct	-64.46	



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0330	EA	7' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire		1,013.50	45.15
		For Gate With Single Barb Wire Arm, Add		96.59	
		For Gate With Double Barb Wire Arm, Add		140.49	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct		-164.64	
		For Aluminized Steel Gate And Post, Add		421.47	
		For Powder Coated Gate And Post, Add		228.30	
		For 1" Mesh Fabric, Add		381.96	
		For 1-1/4" Mesh Fabric, Add		245.86	
		For 1-3/4" Mesh Fabric, Add		152.78	
		For 2-1/8" Mesh Fabric, Deduct		-76.39	
32 31 13 13-0331	EA	8' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	.....	1,171.20	51.92
		For Gate With Single Barb Wire Arm, Add		111.67	
		For Gate With Double Barb Wire Arm, Add		162.42	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct		-190.34	
		For Aluminized Steel Gate And Post, Add		487.27	
		For Powder Coated Gate And Post, Add		263.94	
		For 1" Mesh Fabric, Add		441.59	
		For 1-1/4" Mesh Fabric, Add		284.24	
		For 1-3/4" Mesh Fabric, Add		176.63	
		For 2-1/8" Mesh Fabric, Deduct		-88.32	
32 31 13 13-0332	EA	9' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	.....	1,327.95	58.50
		For Gate With Single Barb Wire Arm, Add		126.75	
		For Gate With Double Barb Wire Arm, Add		184.36	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct		-216.05	
		For Aluminized Steel Gate And Post, Add		553.08	
		For Powder Coated Gate And Post, Add		299.59	
		For 1" Mesh Fabric, Add		501.23	
		For 1-1/4" Mesh Fabric, Add		322.63	
		For 1-3/4" Mesh Fabric, Add		200.49	
		For 2-1/8" Mesh Fabric, Deduct		-100.25	
32 31 13 13-0333	EA	10' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	.....	1,460.95	65.37
		For Gate With Single Barb Wire Arm, Add		139.11	
		For Gate With Double Barb Wire Arm, Add		202.34	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct		-237.12	
		For Aluminized Steel Gate And Post, Add		607.03	
		For Powder Coated Gate And Post, Add		328.81	
		For 1" Mesh Fabric, Add		550.12	
		For 1-1/4" Mesh Fabric, Add		354.10	
		For 1-3/4" Mesh Fabric, Add		220.05	
		For 2-1/8" Mesh Fabric, Deduct		-110.02	
32 31 13 13-0334	EA	10' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	.....	1,856.31	65.37
		For Gate With Single Barb Wire Arm, Add		182.60	
		For Gate With Double Barb Wire Arm, Add		265.60	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct		-311.25	
		For Aluminized Steel Gate And Post, Add		796.80	
		For Powder Coated Gate And Post, Add		431.60	
		For 1" Mesh Fabric, Add		722.10	
		For 1-1/4" Mesh Fabric, Add		464.80	
		For 1-3/4" Mesh Fabric, Add		288.84	
		For 2-1/8" Mesh Fabric, Deduct		-144.42	
32 31 13 13-0335	EA	12' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	.....	2,107.27	87.06
		For Gate With Single Barb Wire Arm, Add		203.04	
		For Gate With Double Barb Wire Arm, Add		295.32	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct		-346.08	
		For Aluminized Steel Gate And Post, Add		885.97	
		For Powder Coated Gate And Post, Add		479.90	
		For 1" Mesh Fabric, Add		802.91	
		For 1-1/4" Mesh Fabric, Add		516.82	
		For 1-3/4" Mesh Fabric, Add		321.17	
		For 2-1/8" Mesh Fabric, Deduct		-160.58	
32 31 13 13-0336	EA	14' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	.....	2,435.01	93.81
		For Gate With Single Barb Wire Arm, Add		236.88	
		For Gate With Double Barb Wire Arm, Add		344.55	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct		-403.76	
		For Aluminized Steel Gate And Post, Add		1,033.64	
		For Powder Coated Gate And Post, Add		559.89	
		For 1" Mesh Fabric, Add		936.73	
		For 1-1/4" Mesh Fabric, Add		602.95	
		For 1-3/4" Mesh Fabric, Add		374.69	
		For 2-1/8" Mesh Fabric, Deduct		-187.35	
32 31 13 13-0337	EA	16' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	.....	2,740.44	101.58
		For Gate With Single Barb Wire Arm, Add		267.89	
		For Gate With Double Barb Wire Arm, Add		389.66	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct		-456.63	
		For Aluminized Steel Gate And Post, Add		1,168.98	
		For Powder Coated Gate And Post, Add		633.20	
		For 1" Mesh Fabric, Add		1,059.39	
		For 1-1/4" Mesh Fabric, Add		681.90	
		For 1-3/4" Mesh Fabric, Add		423.75	
		For 2-1/8" Mesh Fabric, Deduct		-211.88	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0338	EA	18' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	3,077.93	110.85
		For Gate With Single Barb Wire Arm, Add	301.96	
		For Gate With Double Barb Wire Arm, Add	439.22	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-514.71	
		For Aluminized Steel Gate And Post, Add	1,317.66	
		For Powder Coated Gate And Post, Add	713.73	
		For 1" Mesh Fabric, Add	1,194.13	
		For 1-1/4" Mesh Fabric, Add	768.64	
		For 1-3/4" Mesh Fabric, Add	477.65	
		For 2-1/8" Mesh Fabric, Deduct	-238.83	
32 31 13 13-0339	EA	20' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	3,415.63	121.96
		For Gate With Single Barb Wire Arm, Add	335.45	
		For Gate With Double Barb Wire Arm, Add	487.93	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-571.79	
		For Aluminized Steel Gate And Post, Add	1,463.78	
		For Powder Coated Gate And Post, Add	792.88	
		For 1" Mesh Fabric, Add	1,326.55	
		For 1-1/4" Mesh Fabric, Add	853.87	
		For 1-3/4" Mesh Fabric, Add	530.62	
		For 2-1/8" Mesh Fabric, Deduct	-265.31	
32 31 13 13-0340	EA	22' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	3,760.73	135.45
		For Gate With Single Barb Wire Arm, Add	368.94	
		For Gate With Double Barb Wire Arm, Add	536.64	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-628.87	
		For Aluminized Steel Gate And Post, Add	1,609.91	
		For Powder Coated Gate And Post, Add	872.03	
		For 1" Mesh Fabric, Add	1,458.98	
		For 1-1/4" Mesh Fabric, Add	939.11	
		For 1-3/4" Mesh Fabric, Add	583.59	
		For 2-1/8" Mesh Fabric, Deduct	-291.80	
32 31 13 13-0341	EA	24' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	4,116.00	152.38
		For Gate With Single Barb Wire Arm, Add	402.42	
		For Gate With Double Barb Wire Arm, Add	585.34	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-685.95	
		For Aluminized Steel Gate And Post, Add	1,756.03	
		For Powder Coated Gate And Post, Add	951.18	
		For 1" Mesh Fabric, Add	1,591.40	
		For 1-1/4" Mesh Fabric, Add	1,024.35	
		For 1-3/4" Mesh Fabric, Add	636.56	
		For 2-1/8" Mesh Fabric, Deduct	-318.28	
32 31 13 13-0342	EA	26' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	4,485.78	174.12
		For Gate With Single Barb Wire Arm, Add	435.91	
		For Gate With Double Barb Wire Arm, Add	634.05	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-743.03	
		For Aluminized Steel Gate And Post, Add	1,902.15	
		For Powder Coated Gate And Post, Add	1,030.33	
		For 1" Mesh Fabric, Add	1,723.82	
		For 1-1/4" Mesh Fabric, Add	1,109.59	
		For 1-3/4" Mesh Fabric, Add	689.53	
		For 2-1/8" Mesh Fabric, Deduct	-344.76	
32 31 13 13-0343	EA	28' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	4,877.37	203.18
		For Gate With Single Barb Wire Arm, Add	469.40	
		For Gate With Double Barb Wire Arm, Add	682.76	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-800.11	
		For Aluminized Steel Gate And Post, Add	2,048.28	
		For Powder Coated Gate And Post, Add	1,109.48	
		For 1" Mesh Fabric, Add	1,856.25	
		For 1-1/4" Mesh Fabric, Add	1,194.83	
		For 1-3/4" Mesh Fabric, Add	742.50	
		For 2-1/8" Mesh Fabric, Deduct	-371.25	
32 31 13 13-0344	EA	30' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire	5,303.83	243.79
		For Gate With Single Barb Wire Arm, Add	502.88	
		For Gate With Double Barb Wire Arm, Add	731.47	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-857.19	
		For Aluminized Steel Gate And Post, Add	2,194.40	
		For Powder Coated Gate And Post, Add	1,188.63	
		For 1" Mesh Fabric, Add	1,988.67	
		For 1-1/4" Mesh Fabric, Add	1,280.06	
		For 1-3/4" Mesh Fabric, Add	795.47	
		For 2-1/8" Mesh Fabric, Deduct	-397.73	
32 31 13 13-0345		8' Fence Height (32 31 13 13-0264)		
32 31 13 13-0346	EA	3' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	549.95	32.69
		For Gate With Single Barb Wire Arm, Add	49.70	
		For Gate With Double Barb Wire Arm, Add	72.29	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-84.71	
		For Aluminized Steel Gate And Post, Add	216.86	
		For Powder Coated Gate And Post, Add	117.47	
		For 1" Mesh Fabric, Add	196.53	
		For 1-1/4" Mesh Fabric, Add	126.50	
		For 1-3/4" Mesh Fabric, Add	78.61	
		For 2-1/8" Mesh Fabric, Deduct	-39.31	



Exterior Improvements	32	
Site Improvements	32	30
Fences and Gates	32	31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0347	EA	4' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	700.56	32.69
			For Gate With Single Barb Wire Arm, Add	66.27	
			For Gate With Double Barb Wire Arm, Add	96.39	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-112.95	
			For Aluminized Steel Gate And Post, Add	289.16	
			For Powder Coated Gate And Post, Add	156.63	
			For 1" Mesh Fabric, Add	262.05	
			For 1-1/4" Mesh Fabric, Add	168.67	
			For 1-3/4" Mesh Fabric, Add	104.82	
			For 2-1/8" Mesh Fabric, Deduct	-52.41	
32 31 13	13-0348	EA	5' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	817.93	36.41
			For Gate With Single Barb Wire Arm, Add	77.93	
			For Gate With Double Barb Wire Arm, Add	113.36	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-132.84	
			For Aluminized Steel Gate And Post, Add	340.08	
			For Powder Coated Gate And Post, Add	184.21	
			For 1" Mesh Fabric, Add	308.19	
			For 1-1/4" Mesh Fabric, Add	198.38	
			For 1-3/4" Mesh Fabric, Add	123.28	
			For 2-1/8" Mesh Fabric, Deduct	-61.64	
32 31 13	13-0349	EA	6' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	938.26	41.22
			For Gate With Single Barb Wire Arm, Add	89.60	
			For Gate With Double Barb Wire Arm, Add	130.33	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-152.74	
			For Aluminized Steel Gate And Post, Add	391.00	
			For Powder Coated Gate And Post, Add	211.79	
			For 1" Mesh Fabric, Add	354.35	
			For 1-1/4" Mesh Fabric, Add	228.09	
			For 1-3/4" Mesh Fabric, Add	141.74	
			For 2-1/8" Mesh Fabric, Deduct	-70.87	
32 31 13	13-0350	EA	7' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	1,069.89	49.66
			For Gate With Single Barb Wire Arm, Add	101.28	
			For Gate With Double Barb Wire Arm, Add	147.31	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-172.63	
			For Aluminized Steel Gate And Post, Add	441.94	
			For Powder Coated Gate And Post, Add	239.38	
			For 1" Mesh Fabric, Add	400.50	
			For 1-1/4" Mesh Fabric, Add	257.80	
			For 1-3/4" Mesh Fabric, Add	160.20	
			For 2-1/8" Mesh Fabric, Deduct	-80.10	
32 31 13	13-0351	EA	8' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	1,200.53	57.81
			For Gate With Single Barb Wire Arm, Add	112.95	
			For Gate With Double Barb Wire Arm, Add	164.29	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-192.53	
			For Aluminized Steel Gate And Post, Add	492.86	
			For Powder Coated Gate And Post, Add	266.97	
			For 1" Mesh Fabric, Add	446.66	
			For 1-1/4" Mesh Fabric, Add	287.50	
			For 1-3/4" Mesh Fabric, Add	178.66	
			For 2-1/8" Mesh Fabric, Deduct	-89.33	
32 31 13	13-0352	EA	9' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	1,332.15	66.35
			For Gate With Single Barb Wire Arm, Add	124.62	
			For Gate With Double Barb Wire Arm, Add	181.26	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-212.42	
			For Aluminized Steel Gate And Post, Add	543.79	
			For Powder Coated Gate And Post, Add	294.55	
			For 1" Mesh Fabric, Add	492.81	
			For 1-1/4" Mesh Fabric, Add	317.21	
			For 1-3/4" Mesh Fabric, Add	197.12	
			For 2-1/8" Mesh Fabric, Deduct	-98.56	
32 31 13	13-0353	EA	10' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire	1,463.75	74.89
			For Gate With Single Barb Wire Arm, Add	136.29	
			For Gate With Double Barb Wire Arm, Add	198.24	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-232.31	
			For Aluminized Steel Gate And Post, Add	594.72	
			For Powder Coated Gate And Post, Add	322.14	
			For 1" Mesh Fabric, Add	538.97	
			For 1-1/4" Mesh Fabric, Add	346.92	
			For 1-3/4" Mesh Fabric, Add	215.59	
			For 2-1/8" Mesh Fabric, Deduct	-107.79	
32 31 13	13-0354	EA	10' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	2,120.02	87.06
			For Gate With Single Barb Wire Arm, Add	204.44	
			For Gate With Double Barb Wire Arm, Add	297.36	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-348.47	
			For Aluminized Steel Gate And Post, Add	892.09	
			For Powder Coated Gate And Post, Add	483.22	
			For 1" Mesh Fabric, Add	808.46	
			For 1-1/4" Mesh Fabric, Add	520.39	
			For 1-3/4" Mesh Fabric, Add	323.38	
			For 2-1/8" Mesh Fabric, Deduct	-161.69	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0355	EA	12' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	2,498.00	93.81
			For Gate With Single Barb Wire Arm, Add	243.80	
			For Gate With Double Barb Wire Arm, Add	354.62	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-415.58	
			For Aluminized Steel Gate And Post, Add	1,063.87	
			For Powder Coated Gate And Post, Add	576.26	
			For 1" Mesh Fabric, Add	964.13	
			For 1-1/4" Mesh Fabric, Add	620.59	
			For 1-3/4" Mesh Fabric, Add	385.65	
			For 2-1/8" Mesh Fabric, Deduct	-192.83	
32 31 13	13-0356	EA	14' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	2,884.64	101.58
			For Gate With Single Barb Wire Arm, Add	283.75	
			For Gate With Double Barb Wire Arm, Add	412.73	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-483.67	
			For Aluminized Steel Gate And Post, Add	1,238.19	
			For Powder Coated Gate And Post, Add	670.69	
			For 1" Mesh Fabric, Add	1,122.11	
			For 1-1/4" Mesh Fabric, Add	722.28	
			For 1-3/4" Mesh Fabric, Add	448.85	
			For 2-1/8" Mesh Fabric, Deduct	-224.42	
32 31 13	13-0357	EA	16' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	3,286.22	110.85
			For Gate With Single Barb Wire Arm, Add	324.88	
			For Gate With Double Barb Wire Arm, Add	472.55	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-553.77	
			For Aluminized Steel Gate And Post, Add	1,417.64	
			For Powder Coated Gate And Post, Add	767.89	
			For 1" Mesh Fabric, Add	1,284.74	
			For 1-1/4" Mesh Fabric, Add	826.96	
			For 1-3/4" Mesh Fabric, Add	513.90	
			For 2-1/8" Mesh Fabric, Deduct	-256.95	
32 31 13	13-0358	EA	18' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	3,693.35	121.96
			For Gate With Single Barb Wire Arm, Add	366.00	
			For Gate With Double Barb Wire Arm, Add	532.36	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-623.86	
			For Aluminized Steel Gate And Post, Add	1,597.09	
			For Powder Coated Gate And Post, Add	865.09	
			For 1" Mesh Fabric, Add	1,447.36	
			For 1-1/4" Mesh Fabric, Add	931.64	
			For 1-3/4" Mesh Fabric, Add	578.94	
			For 2-1/8" Mesh Fabric, Deduct	-289.47	
32 31 13	13-0359	EA	20' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	4,102.54	135.45
			For Gate With Single Barb Wire Arm, Add	406.54	
			For Gate With Double Barb Wire Arm, Add	591.32	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-692.96	
			For Aluminized Steel Gate And Post, Add	1,773.97	
			For Powder Coated Gate And Post, Add	960.90	
			For 1" Mesh Fabric, Add	1,607.66	
			For 1-1/4" Mesh Fabric, Add	1,034.82	
			For 1-3/4" Mesh Fabric, Add	643.07	
			For 2-1/8" Mesh Fabric, Deduct	-321.53	
32 31 13	13-0360	EA	22' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	4,516.56	152.38
			For Gate With Single Barb Wire Arm, Add	446.48	
			For Gate With Double Barb Wire Arm, Add	649.43	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-761.05	
			For Aluminized Steel Gate And Post, Add	1,948.30	
			For Powder Coated Gate And Post, Add	1,055.33	
			For 1" Mesh Fabric, Add	1,765.64	
			For 1-1/4" Mesh Fabric, Add	1,136.51	
			For 1-3/4" Mesh Fabric, Add	706.26	
			For 2-1/8" Mesh Fabric, Deduct	-353.13	
32 31 13	13-0361	EA	24' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	4,955.77	174.12
			For Gate With Single Barb Wire Arm, Add	487.61	
			For Gate With Double Barb Wire Arm, Add	709.25	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-831.15	
			For Aluminized Steel Gate And Post, Add	2,127.74	
			For Powder Coated Gate And Post, Add	1,152.53	
			For 1" Mesh Fabric, Add	1,928.27	
			For 1-1/4" Mesh Fabric, Add	1,241.18	
			For 1-3/4" Mesh Fabric, Add	771.31	
			For 2-1/8" Mesh Fabric, Deduct	-385.65	
32 31 13	13-0362	EA	26' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	5,416.78	203.18
			For Gate With Single Barb Wire Arm, Add	528.73	
			For Gate With Double Barb Wire Arm, Add	769.06	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-901.25	
			For Aluminized Steel Gate And Post, Add	2,307.19	
			For Powder Coated Gate And Post, Add	1,249.73	
			For 1" Mesh Fabric, Add	2,090.89	
			For 1-1/4" Mesh Fabric, Add	1,345.86	
			For 1-3/4" Mesh Fabric, Add	836.36	
			For 2-1/8" Mesh Fabric, Deduct	-418.18	



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0363	EA		28' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	5,907.33	243.79
			For Gate With Single Barb Wire Arm, Add	569.27	
			For Gate With Double Barb Wire Arm, Add	828.03	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-970.34	
			For Aluminized Steel Gate And Post, Add	2,484.08	
			For Powder Coated Gate And Post, Add	1,345.54	
			For 1" Mesh Fabric, Add	2,251.19	
			For 1-1/4" Mesh Fabric, Add	1,449.04	
			For 1-3/4" Mesh Fabric, Add	900.48	
			For 2-1/8" Mesh Fabric, Deduct	-450.24	
32 31 13 13-0364	EA		30' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire	6,458.87	304.76
			For Gate With Single Barb Wire Arm, Add	609.80	
			For Gate With Double Barb Wire Arm, Add	886.99	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,039.44	
			For Aluminized Steel Gate And Post, Add	2,660.96	
			For Powder Coated Gate And Post, Add	1,441.35	
			For 1" Mesh Fabric, Add	2,411.50	
			For 1-1/4" Mesh Fabric, Add	1,552.23	
			For 1-3/4" Mesh Fabric, Add	964.60	
			For 2-1/8" Mesh Fabric, Deduct	-482.30	
32 31 13 13-0365			10' Fence Height (32 31 13 13-0264)		
32 31 13 13-0366	EA		3' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	693.29	36.32
			For Gate With Single Barb Wire Arm, Add	64.27	
			For Gate With Double Barb Wire Arm, Add	93.48	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-109.55	
			For Aluminized Steel Gate And Post, Add	280.44	
			For Powder Coated Gate And Post, Add	151.90	
			For 1" Mesh Fabric, Add	254.14	
			For 1-1/4" Mesh Fabric, Add	163.59	
			For 1-3/4" Mesh Fabric, Add	101.66	
			For 2-1/8" Mesh Fabric, Deduct	-50.83	
32 31 13 13-0367	EA		4' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	888.03	36.32
			For Gate With Single Barb Wire Arm, Add	85.69	
			For Gate With Double Barb Wire Arm, Add	124.64	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-146.06	
			For Aluminized Steel Gate And Post, Add	373.91	
			For Powder Coated Gate And Post, Add	202.53	
			For 1" Mesh Fabric, Add	338.86	
			For 1-1/4" Mesh Fabric, Add	218.11	
			For 1-3/4" Mesh Fabric, Add	135.54	
			For 2-1/8" Mesh Fabric, Deduct	-67.77	
32 31 13 13-0368	EA		5' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,030.05	37.89
			For Gate With Single Barb Wire Arm, Add	100.78	
			For Gate With Double Barb Wire Arm, Add	146.59	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-171.79	
			For Aluminized Steel Gate And Post, Add	439.78	
			For Powder Coated Gate And Post, Add	238.21	
			For 1" Mesh Fabric, Add	398.55	
			For 1-1/4" Mesh Fabric, Add	256.54	
			For 1-3/4" Mesh Fabric, Add	159.42	
			For 2-1/8" Mesh Fabric, Deduct	-79.71	
32 31 13 13-0369	EA		6' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,194.74	47.11
			For Gate With Single Barb Wire Arm, Add	115.88	
			For Gate With Double Barb Wire Arm, Add	168.55	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-197.51	
			For Aluminized Steel Gate And Post, Add	505.64	
			For Powder Coated Gate And Post, Add	273.89	
			For 1" Mesh Fabric, Add	458.23	
			For 1-1/4" Mesh Fabric, Add	294.95	
			For 1-3/4" Mesh Fabric, Add	183.29	
			For 2-1/8" Mesh Fabric, Deduct	-91.65	
32 31 13 13-0370	EA		7' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,358.84	55.85
			For Gate With Single Barb Wire Arm, Add	130.96	
			For Gate With Double Barb Wire Arm, Add	190.49	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-223.23	
			For Aluminized Steel Gate And Post, Add	571.48	
			For Powder Coated Gate And Post, Add	309.55	
			For 1" Mesh Fabric, Add	517.90	
			For 1-1/4" Mesh Fabric, Add	333.36	
			For 1-3/4" Mesh Fabric, Add	207.16	
			For 2-1/8" Mesh Fabric, Deduct	-103.58	
32 31 13 13-0371	EA		8' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,523.10	65.07
			For Gate With Single Barb Wire Arm, Add	146.06	
			For Gate With Double Barb Wire Arm, Add	212.45	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-248.96	
			For Aluminized Steel Gate And Post, Add	637.34	
			For Powder Coated Gate And Post, Add	345.23	
			For 1" Mesh Fabric, Add	577.59	
			For 1-1/4" Mesh Fabric, Add	371.78	
			For 1-3/4" Mesh Fabric, Add	231.04	
			For 2-1/8" Mesh Fabric, Deduct	-115.52	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0372	EA	9' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire	1,686.81	73.91
			For Gate With Single Barb Wire Arm, Add	161.15	
			For Gate With Double Barb Wire Arm, Add	234.40	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-274.69	
			For Aluminized Steel Gate And Post, Add	703.20	
			For Powder Coated Gate And Post, Add	380.90	
			For 1" Mesh Fabric, Add	637.28	
			For 1-1/4" Mesh Fabric, Add	410.20	
			For 1-3/4" Mesh Fabric, Add	254.91	
			For 2-1/8" Mesh Fabric, Deduct	-127.46	
32 31 13	13-0373	EA	10' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire.....	1,851.53	83.04
			For Gate With Single Barb Wire Arm, Add	176.24	
			For Gate With Double Barb Wire Arm, Add	256.36	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-300.42	
			For Aluminized Steel Gate And Post, Add	769.07	
			For Powder Coated Gate And Post, Add	416.58	
			For 1" Mesh Fabric, Add	696.97	
			For 1-1/4" Mesh Fabric, Add	448.62	
			For 1-3/4" Mesh Fabric, Add	278.79	
			For 2-1/8" Mesh Fabric, Deduct	-139.39	
32 31 13	13-0374	EA	10' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	2,693.84	96.79
			For Gate With Single Barb Wire Arm, Add	264.36	
			For Gate With Double Barb Wire Arm, Add	384.53	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-450.62	
			For Aluminized Steel Gate And Post, Add	1,153.58	
			For Powder Coated Gate And Post, Add	624.86	
			For 1" Mesh Fabric, Add	1,045.44	
			For 1-1/4" Mesh Fabric, Add	672.92	
			For 1-3/4" Mesh Fabric, Add	418.17	
			For 2-1/8" Mesh Fabric, Deduct	-209.09	
32 31 13	13-0375	EA	12' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	2,929.77	104.11
			For Gate With Single Barb Wire Arm, Add	287.87	
			For Gate With Double Barb Wire Arm, Add	418.72	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-490.69	
			For Aluminized Steel Gate And Post, Add	1,256.16	
			For Powder Coated Gate And Post, Add	680.42	
			For 1" Mesh Fabric, Add	1,138.39	
			For 1-1/4" Mesh Fabric, Add	732.76	
			For 1-3/4" Mesh Fabric, Add	455.36	
			For 2-1/8" Mesh Fabric, Deduct	-227.68	
32 31 13	13-0376	EA	14' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	3,340.44	112.92
			For Gate With Single Barb Wire Arm, Add	330.16	
			For Gate With Double Barb Wire Arm, Add	480.24	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-562.78	
			For Aluminized Steel Gate And Post, Add	1,440.71	
			For Powder Coated Gate And Post, Add	780.38	
			For 1" Mesh Fabric, Add	1,305.64	
			For 1-1/4" Mesh Fabric, Add	840.41	
			For 1-3/4" Mesh Fabric, Add	522.26	
			For 2-1/8" Mesh Fabric, Deduct	-261.13	
32 31 13	13-0377	EA	16' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	3,798.37	123.10
			For Gate With Single Barb Wire Arm, Add	377.16	
			For Gate With Double Barb Wire Arm, Add	548.60	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-642.89	
			For Aluminized Steel Gate And Post, Add	1,645.80	
			For Powder Coated Gate And Post, Add	891.47	
			For 1" Mesh Fabric, Add	1,491.50	
			For 1-1/4" Mesh Fabric, Add	960.05	
			For 1-3/4" Mesh Fabric, Add	596.60	
			For 2-1/8" Mesh Fabric, Deduct	-298.30	
32 31 13	13-0378	EA	18' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	4,262.76	135.45
			For Gate With Single Barb Wire Arm, Add	424.16	
			For Gate With Double Barb Wire Arm, Add	616.96	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-723.00	
			For Aluminized Steel Gate And Post, Add	1,850.88	
			For Powder Coated Gate And Post, Add	1,002.56	
			For 1" Mesh Fabric, Add	1,677.36	
			For 1-1/4" Mesh Fabric, Add	1,079.68	
			For 1-3/4" Mesh Fabric, Add	670.94	
			For 2-1/8" Mesh Fabric, Deduct	-335.47	
32 31 13	13-0379	EA	20' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	4,737.67	150.43
			For Gate With Single Barb Wire Arm, Add	471.45	
			For Gate With Double Barb Wire Arm, Add	685.75	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-803.61	
			For Aluminized Steel Gate And Post, Add	2,057.25	
			For Powder Coated Gate And Post, Add	1,114.34	
			For 1" Mesh Fabric, Add	1,864.38	
			For 1-1/4" Mesh Fabric, Add	1,200.06	
			For 1-3/4" Mesh Fabric, Add	745.75	
			For 2-1/8" Mesh Fabric, Deduct	-372.88	



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0380	EA	22' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	5,224.31	169.32
			For Gate With Single Barb Wire Arm, Add	518.74	
			For Gate With Double Barb Wire Arm, Add	754.54	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-884.22	
			For Aluminized Steel Gate And Post, Add	2,263.61	
			For Powder Coated Gate And Post, Add	1,226.12	
			For 1" Mesh Fabric, Add	2,051.40	
			For 1-1/4" Mesh Fabric, Add	1,320.44	
			For 1-3/4" Mesh Fabric, Add	820.56	
			For 2-1/8" Mesh Fabric, Deduct	-410.28	
32 31 13	13-0381	EA	24' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	5,723.83	193.33
			For Gate With Single Barb Wire Arm, Add	565.74	
			For Gate With Double Barb Wire Arm, Add	822.90	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-964.33	
			For Aluminized Steel Gate And Post, Add	2,468.69	
			For Powder Coated Gate And Post, Add	1,337.21	
			For 1" Mesh Fabric, Add	2,237.25	
			For 1-1/4" Mesh Fabric, Add	1,440.07	
			For 1-3/4" Mesh Fabric, Add	894.90	
			For 2-1/8" Mesh Fabric, Deduct	-447.45	
32 31 13	13-0382	EA	26' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	6,248.30	225.71
			For Gate With Single Barb Wire Arm, Add	612.74	
			For Gate With Double Barb Wire Arm, Add	891.26	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,044.44	
			For Aluminized Steel Gate And Post, Add	2,673.78	
			For Powder Coated Gate And Post, Add	1,448.30	
			For 1" Mesh Fabric, Add	2,423.11	
			For 1-1/4" Mesh Fabric, Add	1,559.70	
			For 1-3/4" Mesh Fabric, Add	969.24	
			For 2-1/8" Mesh Fabric, Deduct	-484.62	
32 31 13	13-0383	EA	28' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	6,810.43	270.67
			For Gate With Single Barb Wire Arm, Add	659.74	
			For Gate With Double Barb Wire Arm, Add	959.62	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,124.56	
			For Aluminized Steel Gate And Post, Add	2,878.86	
			For Powder Coated Gate And Post, Add	1,559.38	
			For 1" Mesh Fabric, Add	2,608.97	
			For 1-1/4" Mesh Fabric, Add	1,679.34	
			For 1-3/4" Mesh Fabric, Add	1,043.59	
			For 2-1/8" Mesh Fabric, Deduct	-521.79	
32 31 13	13-0384	EA	30' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire	7,447.12	338.63
			For Gate With Single Barb Wire Arm, Add	707.33	
			For Gate With Double Barb Wire Arm, Add	1,028.84	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,205.67	
			For Aluminized Steel Gate And Post, Add	3,086.51	
			For Powder Coated Gate And Post, Add	1,671.86	
			For 1" Mesh Fabric, Add	2,797.15	
			For 1-1/4" Mesh Fabric, Add	1,800.46	
			For 1-3/4" Mesh Fabric, Add	1,118.86	
			For 2-1/8" Mesh Fabric, Deduct	-559.43	
32 31 13	13-0385		12' Fence Height (32 31 13 13-0264)		
32 31 13	13-0386	EA	3' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	869.01	40.34
			For Gate With Single Barb Wire Arm, Add	82.26	
			For Gate With Double Barb Wire Arm, Add	119.65	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-140.22	
			For Aluminized Steel Gate And Post, Add	358.96	
			For Powder Coated Gate And Post, Add	194.44	
			For 1" Mesh Fabric, Add	325.31	
			For 1-1/4" Mesh Fabric, Add	209.39	
			For 1-3/4" Mesh Fabric, Add	130.12	
			For 2-1/8" Mesh Fabric, Deduct	-65.06	
32 31 13	13-0387	EA	4' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	1,118.27	40.34
			For Gate With Single Barb Wire Arm, Add	109.68	
			For Gate With Double Barb Wire Arm, Add	159.53	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-186.95	
			For Aluminized Steel Gate And Post, Add	478.60	
			For Powder Coated Gate And Post, Add	259.24	
			For 1" Mesh Fabric, Add	433.73	
			For 1-1/4" Mesh Fabric, Add	279.19	
			For 1-3/4" Mesh Fabric, Add	173.49	
			For 2-1/8" Mesh Fabric, Deduct	-86.75	
32 31 13	13-0388	EA	5' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	1,298.36	41.82
			For Gate With Single Barb Wire Arm, Add	129.00	
			For Gate With Double Barb Wire Arm, Add	187.64	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-219.89	
			For Aluminized Steel Gate And Post, Add	562.91	
			For Powder Coated Gate And Post, Add	304.91	
			For 1" Mesh Fabric, Add	510.14	
			For 1-1/4" Mesh Fabric, Add	328.36	
			For 1-3/4" Mesh Fabric, Add	204.06	
			For 2-1/8" Mesh Fabric, Deduct	-102.03	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0389	EA	6' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	1,504.41	51.92
			For Gate With Single Barb Wire Arm, Add	148.32	
			For Gate With Double Barb Wire Arm, Add	215.74	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-252.82	
			For Aluminized Steel Gate And Post, Add	647.21	
			For Powder Coated Gate And Post, Add	350.57	
			For 1" Mesh Fabric, Add	586.53	
			For 1-1/4" Mesh Fabric, Add	377.54	
			For 1-3/4" Mesh Fabric, Add	234.61	
			For 2-1/8" Mesh Fabric, Deduct	-117.31	
32 31 13	13-0390	EA	7' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	663.33	62.13
			For Gate With Single Barb Wire Arm, Add	52.45	
			For Gate With Double Barb Wire Arm, Add	76.29	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-89.41	
			For Aluminized Steel Gate And Post, Add	228.88	
			For Powder Coated Gate And Post, Add	123.98	
			For 1" Mesh Fabric, Add	207.43	
			For 1-1/4" Mesh Fabric, Add	133.52	
			For 1-3/4" Mesh Fabric, Add	82.97	
			For 2-1/8" Mesh Fabric, Deduct	-41.49	
32 31 13	13-0391	EA	8' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	747.72	71.95
			For Gate With Single Barb Wire Arm, Add	58.50	
			For Gate With Double Barb Wire Arm, Add	85.09	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-99.71	
			For Aluminized Steel Gate And Post, Add	255.26	
			For Powder Coated Gate And Post, Add	138.27	
			For 1" Mesh Fabric, Add	231.33	
			For 1-1/4" Mesh Fabric, Add	148.90	
			For 1-3/4" Mesh Fabric, Add	92.53	
			For 2-1/8" Mesh Fabric, Deduct	-46.27	
32 31 13	13-0392	EA	9' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire	833.10	82.05
			For Gate With Single Barb Wire Arm, Add	64.54	
			For Gate With Double Barb Wire Arm, Add	93.88	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-110.01	
			For Aluminized Steel Gate And Post, Add	281.64	
			For Powder Coated Gate And Post, Add	152.55	
			For 1" Mesh Fabric, Add	255.23	
			For 1-1/4" Mesh Fabric, Add	164.29	
			For 1-3/4" Mesh Fabric, Add	102.09	
			For 2-1/8" Mesh Fabric, Deduct	-51.05	
32 31 13	13-0393	EA	10' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire.....	918.49	92.17
			For Gate With Single Barb Wire Arm, Add	70.59	
			For Gate With Double Barb Wire Arm, Add	102.67	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-120.32	
			For Aluminized Steel Gate And Post, Add	308.02	
			For Powder Coated Gate And Post, Add	166.84	
			For 1" Mesh Fabric, Add	279.14	
			For 1-1/4" Mesh Fabric, Add	179.68	
			For 1-3/4" Mesh Fabric, Add	111.66	
			For 2-1/8" Mesh Fabric, Deduct	-55.83	
32 31 13	13-0394	EA	10' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	1,216.88	107.53
			For Gate With Single Barb Wire Arm, Add	98.35	
			For Gate With Double Barb Wire Arm, Add	143.05	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-167.63	
			For Aluminized Steel Gate And Post, Add	429.14	
			For Powder Coated Gate And Post, Add	232.45	
			For 1" Mesh Fabric, Add	388.91	
			For 1-1/4" Mesh Fabric, Add	250.33	
			For 1-3/4" Mesh Fabric, Add	155.56	
			For 2-1/8" Mesh Fabric, Deduct	-77.78	
32 31 13	13-0395	EA	12' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	1,330.08	115.78
			For Gate With Single Barb Wire Arm, Add	108.09	
			For Gate With Double Barb Wire Arm, Add	157.22	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-184.24	
			For Aluminized Steel Gate And Post, Add	471.66	
			For Powder Coated Gate And Post, Add	255.48	
			For 1" Mesh Fabric, Add	427.44	
			For 1-1/4" Mesh Fabric, Add	275.13	
			For 1-3/4" Mesh Fabric, Add	170.98	
			For 2-1/8" Mesh Fabric, Deduct	-85.49	
32 31 13	13-0396	EA	14' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	1,502.96	125.38
			For Gate With Single Barb Wire Arm, Add	123.90	
			For Gate With Double Barb Wire Arm, Add	180.21	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-211.19	
			For Aluminized Steel Gate And Post, Add	540.64	
			For Powder Coated Gate And Post, Add	292.85	
			For 1" Mesh Fabric, Add	489.95	
			For 1-1/4" Mesh Fabric, Add	315.37	
			For 1-3/4" Mesh Fabric, Add	195.98	
			For 2-1/8" Mesh Fabric, Deduct	-97.99	



Exterior Improvements		32	32
Site Improvements		32 30	
Fences and Gates		32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0397	EA	16' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	1,697.53	136.71
			For Gate With Single Barb Wire Arm, Add	141.54	
			For Gate With Double Barb Wire Arm, Add	205.88	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-241.27	
			For Aluminized Steel Gate And Post, Add	617.64	
			For Powder Coated Gate And Post, Add	334.56	
			For 1" Mesh Fabric, Add	559.74	
			For 1-1/4" Mesh Fabric, Add	360.29	
			For 1-3/4" Mesh Fabric, Add	223.90	
			For 2-1/8" Mesh Fabric, Deduct	-111.95	
32 31 13	13-0398	EA	18' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	5,076.80	150.55
			For Gate With Single Barb Wire Arm, Add	508.76	
			For Gate With Double Barb Wire Arm, Add	740.01	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-867.20	
			For Aluminized Steel Gate And Post, Add	2,220.03	
			For Powder Coated Gate And Post, Add	1,202.52	
			For 1" Mesh Fabric, Add	2,011.90	
			For 1-1/4" Mesh Fabric, Add	1,295.02	
			For 1-3/4" Mesh Fabric, Add	804.76	
			For 2-1/8" Mesh Fabric, Deduct	-402.38	
32 31 13	13-0399	EA	20' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	5,644.86	167.14
			For Gate With Single Barb Wire Arm, Add	565.74	
			For Gate With Double Barb Wire Arm, Add	822.90	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-964.33	
			For Aluminized Steel Gate And Post, Add	2,468.69	
			For Powder Coated Gate And Post, Add	1,337.21	
			For 1" Mesh Fabric, Add	2,237.25	
			For 1-1/4" Mesh Fabric, Add	1,440.07	
			For 1-3/4" Mesh Fabric, Add	894.90	
			For 2-1/8" Mesh Fabric, Deduct	-447.45	
32 31 13	13-0400	EA	22' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	6,220.76	188.08
			For Gate With Single Barb Wire Arm, Add	622.14	
			For Gate With Double Barb Wire Arm, Add	904.93	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,060.47	
			For Aluminized Steel Gate And Post, Add	2,714.79	
			For Powder Coated Gate And Post, Add	1,470.51	
			For 1" Mesh Fabric, Add	2,460.28	
			For 1-1/4" Mesh Fabric, Add	1,583.63	
			For 1-3/4" Mesh Fabric, Add	984.11	
			For 2-1/8" Mesh Fabric, Deduct	-492.06	
32 31 13	13-0401	EA	24' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	6,819.11	214.85
			For Gate With Single Barb Wire Arm, Add	679.13	
			For Gate With Double Barb Wire Arm, Add	987.82	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,157.60	
			For Aluminized Steel Gate And Post, Add	2,963.46	
			For Powder Coated Gate And Post, Add	1,605.21	
			For 1" Mesh Fabric, Add	2,685.63	
			For 1-1/4" Mesh Fabric, Add	1,728.68	
			For 1-3/4" Mesh Fabric, Add	1,074.25	
			For 2-1/8" Mesh Fabric, Deduct	-537.13	
32 31 13	13-0402	EA	26' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	7,434.50	250.88
			For Gate With Single Barb Wire Arm, Add	734.94	
			For Gate With Double Barb Wire Arm, Add	1,069.00	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,252.73	
			For Aluminized Steel Gate And Post, Add	3,207.00	
			For Powder Coated Gate And Post, Add	1,737.12	
			For 1" Mesh Fabric, Add	2,906.34	
			For 1-1/4" Mesh Fabric, Add	1,870.75	
			For 1-3/4" Mesh Fabric, Add	1,162.54	
			For 2-1/8" Mesh Fabric, Deduct	-581.27	
32 31 13	13-0403	EA	28' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	8,097.05	300.76
			For Gate With Single Barb Wire Arm, Add	791.33	
			For Gate With Double Barb Wire Arm, Add	1,151.03	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,348.87	
			For Aluminized Steel Gate And Post, Add	3,453.10	
			For Powder Coated Gate And Post, Add	1,870.43	
			For 1" Mesh Fabric, Add	3,129.37	
			For 1-1/4" Mesh Fabric, Add	2,014.31	
			For 1-3/4" Mesh Fabric, Add	1,251.75	
			For 2-1/8" Mesh Fabric, Deduct	-625.87	
32 31 13	13-0404	EA	30' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire	8,841.89	376.27
			For Gate With Single Barb Wire Arm, Add	848.32	
			For Gate With Double Barb Wire Arm, Add	1,233.92	
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,446.00	
			For Aluminized Steel Gate And Post, Add	3,701.76	
			For Powder Coated Gate And Post, Add	2,005.12	
			For 1" Mesh Fabric, Add	3,354.72	
			For 1-1/4" Mesh Fabric, Add	2,159.36	
			For 1-3/4" Mesh Fabric, Add	1,341.89	
			For 2-1/8" Mesh Fabric, Deduct	-670.94	

32 31 13 13-0405 Vinyl Coated Without Barb Wire Arm (32 31 13 13-0263)

Note: Industrial swing gate. Includes posts (3" diameter posts for up to 6' wide gate, 4" diameter to 13' wide, 6-5/8" diameter for 18' wide, 8-5/8" diameter for over 18' wide), 2" diameter schedule pipe frame, offset hinges, cap and hardware (drop rod, center locking device, gate keeper, catch bolt and tension bands). Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating.

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
32 31 13 13-0406	4' Fence Height	(32 31 13 13-0405)			
32 31 13 13-0407	EA	3' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	185.12	24.54	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-20.91		
		For 1" Mesh Fabric, Add	48.51		
		For 1-1/4" Mesh Fabric, Add	31.22		
		For 1-3/4" Mesh Fabric, Add	19.40		
		For 2-1/8" Mesh Fabric, Deduct	-9.70		
		For Gate With Single Barb Wire Arm, Add	12.27		
		For Gate With Double Barb Wire Arm, Add	17.84		
32 31 13 13-0408	EA	4' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	222.29	24.54	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-27.88		
		For 1" Mesh Fabric, Add	64.68		
		For 1-1/4" Mesh Fabric, Add	41.63		
		For 1-3/4" Mesh Fabric, Add	25.87		
		For 2-1/8" Mesh Fabric, Deduct	-12.94		
		For Gate With Single Barb Wire Arm, Add	16.35		
		For Gate With Double Barb Wire Arm, Add	23.79		
32 31 13 13-0409	EA	5' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	258.18	26.11	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-33.69		
		For 1" Mesh Fabric, Add	78.15		
		For 1-1/4" Mesh Fabric, Add	50.30		
		For 1-3/4" Mesh Fabric, Add	31.26		
		For 2-1/8" Mesh Fabric, Deduct	-15.63		
		For Gate With Single Barb Wire Arm, Add	19.76		
		For Gate With Double Barb Wire Arm, Add	28.75		
32 31 13 13-0410	EA	6' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	304.86	31.41	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-39.49		
		For 1" Mesh Fabric, Add	91.62		
		For 1-1/4" Mesh Fabric, Add	58.98		
		For 1-3/4" Mesh Fabric, Add	36.65		
		For 2-1/8" Mesh Fabric, Deduct	-18.32		
		For Gate With Single Barb Wire Arm, Add	23.17		
		For Gate With Double Barb Wire Arm, Add	33.70		
32 31 13 13-0411	EA	7' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	351.53	36.61	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-45.30		
		For 1" Mesh Fabric, Add	105.10		
		For 1-1/4" Mesh Fabric, Add	67.65		
		For 1-3/4" Mesh Fabric, Add	42.04		
		For 2-1/8" Mesh Fabric, Deduct	-21.02		
		For Gate With Single Barb Wire Arm, Add	26.58		
		For Gate With Double Barb Wire Arm, Add	38.66		
32 31 13 13-0412	EA	8' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	398.22	41.82	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-51.11		
		For 1" Mesh Fabric, Add	118.58		
		For 1-1/4" Mesh Fabric, Add	76.33		
		For 1-3/4" Mesh Fabric, Add	47.43		
		For 2-1/8" Mesh Fabric, Deduct	-23.72		
		For Gate With Single Barb Wire Arm, Add	29.98		
		For Gate With Double Barb Wire Arm, Add	43.61		
32 31 13 13-0413	EA	9' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	444.90	47.11	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-56.92		
		For 1" Mesh Fabric, Add	132.05		
		For 1-1/4" Mesh Fabric, Add	85.00		
		For 1-3/4" Mesh Fabric, Add	52.82		
		For 2-1/8" Mesh Fabric, Deduct	-26.41		
		For Gate With Single Barb Wire Arm, Add	33.39		
		For Gate With Double Barb Wire Arm, Add	48.57		
32 31 13 13-0414	EA	10' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	491.58	52.31	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-62.72		
		For 1" Mesh Fabric, Add	145.52		
		For 1-1/4" Mesh Fabric, Add	93.67		
		For 1-3/4" Mesh Fabric, Add	58.21		
		For 2-1/8" Mesh Fabric, Deduct	-29.10		
		For Gate With Single Barb Wire Arm, Add	36.80		
		For Gate With Double Barb Wire Arm, Add	53.52		
32 31 13 13-0415	EA	10' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	603.09	52.31	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-83.63		
		For 1" Mesh Fabric, Add	194.03		
		For 1-1/4" Mesh Fabric, Add	124.89		
		For 1-3/4" Mesh Fabric, Add	77.61		
		For 2-1/8" Mesh Fabric, Deduct	-38.81		
		For Gate With Single Barb Wire Arm, Add	49.06		
		For Gate With Double Barb Wire Arm, Add	71.37		
32 31 13 13-0416	EA	12' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	703.51	56.05	
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-100.36		
		For 1" Mesh Fabric, Add	232.83		
		For 1-1/4" Mesh Fabric, Add	149.87		
		For 1-3/4" Mesh Fabric, Add	93.13		
		For 2-1/8" Mesh Fabric, Deduct	-46.57		
		For Gate With Single Barb Wire Arm, Add	58.88		
		For Gate With Double Barb Wire Arm, Add	85.64		



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0417	EA	14'	Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	805.66 -117.09 271.64 174.85 108.66 -54.33 68.69 99.91	60.36
32 31 13 13-0418	EA	16'	Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	909.98 -133.81 310.45 199.83 124.18 -62.09 78.50 114.19	65.37
32 31 13 13-0419	EA	18'	Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,046.94 -150.54 349.25 224.81 139.70 -69.85 88.32 128.46	81.22
32 31 13 13-0420	EA	20'	Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,153.58 -167.27 388.06 249.79 155.22 -77.61 98.13 142.73	87.06
32 31 13 13-0421	EA	22'	Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,262.90 -183.99 426.87 274.76 170.75 -85.37 107.94 157.01	93.81
32 31 13 13-0422	EA	24'	Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,375.57 -200.72 465.67 299.74 186.27 -93.13 117.76 171.28	101.58
32 31 13 13-0423	EA	26'	Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,492.51 -217.45 504.47 324.72 201.79 -100.89 127.57 185.55	110.85
32 31 13 13-0424	EA	28'	Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,615.00 -234.17 543.28 349.70 217.31 -108.66 137.38 199.83	121.96
32 31 13 13-0425	EA	30'	Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	1,744.89 -250.90 582.09 374.68 232.83 -116.42 147.19 214.10	135.45
32 31 13 13-0426	5' Fence Height (32 31 13 13-0405)				
32 31 13 13-0427	EA	3'	Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	216.70 -25.91 60.11 38.69 24.04 -12.02 15.20 22.11	26.11

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0428	EA	4' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	262.76	26.11
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-34.55	
		For 1" Mesh Fabric, Add	80.14	
		For 1-1/4" Mesh Fabric, Add	51.59	
		For 1-3/4" Mesh Fabric, Add	32.06	
		For 2-1/8" Mesh Fabric, Deduct	-16.03	
		For Gate With Single Barb Wire Arm, Add	20.27	
		For Gate With Double Barb Wire Arm, Add	29.48	
32 31 13 13-0429	EA	5' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	302.22	27.78
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-41.02	
		For 1" Mesh Fabric, Add	95.17	
		For 1-1/4" Mesh Fabric, Add	61.26	
		For 1-3/4" Mesh Fabric, Add	38.07	
		For 2-1/8" Mesh Fabric, Deduct	-19.03	
		For Gate With Single Barb Wire Arm, Add	24.07	
		For Gate With Double Barb Wire Arm, Add	35.01	
32 31 13 13-0430	EA	6' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	353.44	33.37
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-47.50	
		For 1" Mesh Fabric, Add	110.20	
		For 1-1/4" Mesh Fabric, Add	70.93	
		For 1-3/4" Mesh Fabric, Add	44.08	
		For 2-1/8" Mesh Fabric, Deduct	-22.04	
		For Gate With Single Barb Wire Arm, Add	27.87	
		For Gate With Double Barb Wire Arm, Add	40.53	
32 31 13 13-0431	EA	7' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	404.68	38.87
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-53.98	
		For 1" Mesh Fabric, Add	125.23	
		For 1-1/4" Mesh Fabric, Add	80.61	
		For 1-3/4" Mesh Fabric, Add	50.09	
		For 2-1/8" Mesh Fabric, Deduct	-25.05	
		For Gate With Single Barb Wire Arm, Add	31.67	
		For Gate With Double Barb Wire Arm, Add	46.06	
32 31 13 13-0432	EA	8' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	456.88	44.76
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-60.45	
		For 1" Mesh Fabric, Add	140.25	
		For 1-1/4" Mesh Fabric, Add	90.27	
		For 1-3/4" Mesh Fabric, Add	56.10	
		For 2-1/8" Mesh Fabric, Deduct	-28.05	
		For Gate With Single Barb Wire Arm, Add	35.47	
		For Gate With Double Barb Wire Arm, Add	51.59	
32 31 13 13-0433	EA	9' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	508.12	50.35
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-66.93	
		For 1" Mesh Fabric, Add	155.28	
		For 1-1/4" Mesh Fabric, Add	99.95	
		For 1-3/4" Mesh Fabric, Add	62.11	
		For 2-1/8" Mesh Fabric, Deduct	-31.06	
		For Gate With Single Barb Wire Arm, Add	39.27	
		For Gate With Double Barb Wire Arm, Add	57.12	
32 31 13 13-0434	EA	10' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	559.34	55.85
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-73.41	
		For 1" Mesh Fabric, Add	170.30	
		For 1-1/4" Mesh Fabric, Add	109.62	
		For 1-3/4" Mesh Fabric, Add	68.12	
		For 2-1/8" Mesh Fabric, Deduct	-34.06	
		For Gate With Single Barb Wire Arm, Add	43.07	
		For Gate With Double Barb Wire Arm, Add	62.64	
32 31 13 13-0435	EA	10' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	720.97	56.05
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-103.63	
		For 1" Mesh Fabric, Add	240.43	
		For 1-1/4" Mesh Fabric, Add	154.76	
		For 1-3/4" Mesh Fabric, Add	96.17	
		For 2-1/8" Mesh Fabric, Deduct	-48.09	
		For Gate With Single Barb Wire Arm, Add	60.80	
		For Gate With Double Barb Wire Arm, Add	88.43	
32 31 13 13-0436	EA	12' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	844.45	60.36
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-124.36	
		For 1" Mesh Fabric, Add	288.51	
		For 1-1/4" Mesh Fabric, Add	185.71	
		For 1-3/4" Mesh Fabric, Add	115.41	
		For 2-1/8" Mesh Fabric, Deduct	-57.70	
		For Gate With Single Barb Wire Arm, Add	72.96	
		For Gate With Double Barb Wire Arm, Add	106.12	
32 31 13 13-0437	EA	14' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	970.10	65.37
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-145.09	
		For 1" Mesh Fabric, Add	336.60	
		For 1-1/4" Mesh Fabric, Add	216.66	
		For 1-3/4" Mesh Fabric, Add	134.64	
		For 2-1/8" Mesh Fabric, Deduct	-67.32	
		For Gate With Single Barb Wire Arm, Add	85.12	
		For Gate With Double Barb Wire Arm, Add	123.81	



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MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
32 31 13 13-0438	EA	16' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,128.39	81.22
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-165.81	
		For 1" Mesh Fabric, Add	384.68	
		For 1-1/4" Mesh Fabric, Add	247.61	
		For 1-3/4" Mesh Fabric, Add	153.87	
		For 2-1/8" Mesh Fabric, Deduct	-76.94	
		For Gate With Single Barb Wire Arm, Add	97.28	
		For Gate With Double Barb Wire Arm, Add	141.49	
32 31 13 13-0439	EA	18 Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,256.36	87.06
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-186.54	
		For 1" Mesh Fabric, Add	432.77	
		For 1-1/4" Mesh Fabric, Add	278.56	
		For 1-3/4" Mesh Fabric, Add	173.11	
		For 2-1/8" Mesh Fabric, Deduct	-86.55	
		For Gate With Single Barb Wire Arm, Add	109.44	
		For Gate With Double Barb Wire Arm, Add	159.18	
32 31 13 13-0440	EA	20' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,387.02	93.81
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-207.27	
		For 1" Mesh Fabric, Add	480.86	
		For 1-1/4" Mesh Fabric, Add	309.52	
		For 1-3/4" Mesh Fabric, Add	192.34	
		For 2-1/8" Mesh Fabric, Deduct	-96.17	
		For Gate With Single Barb Wire Arm, Add	121.60	
		For Gate With Double Barb Wire Arm, Add	176.87	
32 31 13 13-0441	EA	22' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,521.03	101.58
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-227.99	
		For 1" Mesh Fabric, Add	528.94	
		For 1-1/4" Mesh Fabric, Add	340.47	
		For 1-3/4" Mesh Fabric, Add	211.58	
		For 2-1/8" Mesh Fabric, Deduct	-105.79	
		For Gate With Single Barb Wire Arm, Add	133.76	
		For Gate With Double Barb Wire Arm, Add	194.55	
32 31 13 13-0442	EA	24' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,659.30	110.85
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-248.72	
		For 1" Mesh Fabric, Add	577.03	
		For 1-1/4" Mesh Fabric, Add	371.42	
		For 1-3/4" Mesh Fabric, Add	230.81	
		For 2-1/8" Mesh Fabric, Deduct	-115.41	
		For Gate With Single Barb Wire Arm, Add	145.92	
		For Gate With Double Barb Wire Arm, Add	212.24	
32 31 13 13-0443	EA	26' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,803.12	121.96
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-269.45	
		For 1" Mesh Fabric, Add	625.11	
		For 1-1/4" Mesh Fabric, Add	402.37	
		For 1-3/4" Mesh Fabric, Add	250.04	
		For 2-1/8" Mesh Fabric, Deduct	-125.02	
		For Gate With Single Barb Wire Arm, Add	158.07	
		For Gate With Double Barb Wire Arm, Add	229.93	
32 31 13 13-0444	EA	28' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,954.34	135.45
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-290.17	
		For 1" Mesh Fabric, Add	673.20	
		For 1-1/4" Mesh Fabric, Add	433.32	
		For 1-3/4" Mesh Fabric, Add	269.28	
		For 2-1/8" Mesh Fabric, Deduct	-134.64	
		For Gate With Single Barb Wire Arm, Add	170.23	
		For Gate With Double Barb Wire Arm, Add	247.61	
32 31 13 13-0445	EA	30' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,115.73	152.38
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-310.90	
		For 1" Mesh Fabric, Add	721.28	
		For 1-1/4" Mesh Fabric, Add	464.27	
		For 1-3/4" Mesh Fabric, Add	288.51	
		For 2-1/8" Mesh Fabric, Deduct	-144.26	
		For Gate With Single Barb Wire Arm, Add	182.39	
		For Gate With Double Barb Wire Arm, Add	265.30	
32 31 13 13-0446		6' Fence Height ^(32 31 13 13-0405)		
32 31 13 13-0447	EA	3' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm	231.80	27.98
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-27.69	
		For 1" Mesh Fabric, Add	64.24	
		For 1-1/4" Mesh Fabric, Add	41.35	
		For 1-3/4" Mesh Fabric, Add	25.69	
		For 2-1/8" Mesh Fabric, Deduct	-12.85	
		For Gate With Single Barb Wire Arm, Add	16.24	
		For Gate With Double Barb Wire Arm, Add	23.63	
32 31 13 13-0448	EA	4' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm	281.03	27.98
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-36.92	
		For 1" Mesh Fabric, Add	85.65	
		For 1-1/4" Mesh Fabric, Add	55.13	
		For 1-3/4" Mesh Fabric, Add	34.26	
		For 2-1/8" Mesh Fabric, Deduct	-17.13	
		For Gate With Single Barb Wire Arm, Add	21.66	
		For Gate With Double Barb Wire Arm, Add	31.50	

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0449	EA	5' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	323.14	29.74
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-43.84	
		For 1" Mesh Fabric, Add	101.71	
		For 1-1/4" Mesh Fabric, Add	65.47	
		For 1-3/4" Mesh Fabric, Add	40.68	
		For 2-1/8" Mesh Fabric, Deduct	-20.34	
		For Gate With Single Barb Wire Arm, Add	25.72	
		For Gate With Double Barb Wire Arm, Add	37.41	
32 31 13 13-0450	EA	6' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	378.71	35.93
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-50.76	
		For 1" Mesh Fabric, Add	117.77	
		For 1-1/4" Mesh Fabric, Add	75.81	
		For 1-3/4" Mesh Fabric, Add	47.11	
		For 2-1/8" Mesh Fabric, Deduct	-23.55	
		For Gate With Single Barb Wire Arm, Add	29.78	
		For Gate With Double Barb Wire Arm, Add	43.32	
32 31 13 13-0451	EA	7' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	434.27	42.21
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-57.68	
		For 1" Mesh Fabric, Add	133.83	
		For 1-1/4" Mesh Fabric, Add	86.14	
		For 1-3/4" Mesh Fabric, Add	53.53	
		For 2-1/8" Mesh Fabric, Deduct	-26.77	
		For Gate With Single Barb Wire Arm, Add	33.84	
		For Gate With Double Barb Wire Arm, Add	49.22	
32 31 13 13-0452	EA	8' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	488.84	48.09
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-64.61	
		For 1" Mesh Fabric, Add	149.89	
		For 1-1/4" Mesh Fabric, Add	96.48	
		For 1-3/4" Mesh Fabric, Add	59.96	
		For 2-1/8" Mesh Fabric, Deduct	-29.98	
		For Gate With Single Barb Wire Arm, Add	37.90	
		For Gate With Double Barb Wire Arm, Add	55.13	
32 31 13 13-0453	EA	9' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	544.42	54.28
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-71.53	
		For 1" Mesh Fabric, Add	165.95	
		For 1-1/4" Mesh Fabric, Add	106.82	
		For 1-3/4" Mesh Fabric, Add	66.38	
		For 2-1/8" Mesh Fabric, Deduct	-33.19	
		For Gate With Single Barb Wire Arm, Add	41.96	
		For Gate With Double Barb Wire Arm, Add	61.04	
32 31 13 13-0454	EA	10' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	600.00	60.46
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-78.45	
		For 1" Mesh Fabric, Add	182.01	
		For 1-1/4" Mesh Fabric, Add	117.15	
		For 1-3/4" Mesh Fabric, Add	72.80	
		For 2-1/8" Mesh Fabric, Deduct	-36.40	
		For Gate With Single Barb Wire Arm, Add	46.03	
		For Gate With Double Barb Wire Arm, Add	66.95	
32 31 13 13-0455	EA	10' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	771.89	60.36
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-110.75	
		For 1" Mesh Fabric, Add	256.95	
		For 1-1/4" Mesh Fabric, Add	165.39	
		For 1-3/4" Mesh Fabric, Add	102.78	
		For 2-1/8" Mesh Fabric, Deduct	-51.39	
		For Gate With Single Barb Wire Arm, Add	64.98	
		For Gate With Double Barb Wire Arm, Add	94.51	
32 31 13 13-0456	EA	12' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	905.13	65.37
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-132.90	
		For 1" Mesh Fabric, Add	308.34	
		For 1-1/4" Mesh Fabric, Add	198.47	
		For 1-3/4" Mesh Fabric, Add	123.33	
		For 2-1/8" Mesh Fabric, Deduct	-61.67	
		For Gate With Single Barb Wire Arm, Add	77.97	
		For Gate With Double Barb Wire Arm, Add	113.41	
32 31 13 13-0457	EA	14' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,088.45	87.06
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-155.06	
		For 1" Mesh Fabric, Add	359.73	
		For 1-1/4" Mesh Fabric, Add	231.55	
		For 1-3/4" Mesh Fabric, Add	143.89	
		For 2-1/8" Mesh Fabric, Deduct	-71.95	
		For Gate With Single Barb Wire Arm, Add	90.97	
		For Gate With Double Barb Wire Arm, Add	132.31	
32 31 13 13-0458	EA	16' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,226.70	93.81
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-177.21	
		For 1" Mesh Fabric, Add	411.12	
		For 1-1/4" Mesh Fabric, Add	264.63	
		For 1-3/4" Mesh Fabric, Add	164.45	
		For 2-1/8" Mesh Fabric, Deduct	-82.22	
		For Gate With Single Barb Wire Arm, Add	103.96	
		For Gate With Double Barb Wire Arm, Add	151.22	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0459	EA		18' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm 1,368.31		101.58
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-199.36	
			For 1" Mesh Fabric, Add	462.51	
			For 1-1/4" Mesh Fabric, Add	297.71	
			For 1-3/4" Mesh Fabric, Add	185.00	
			For 2-1/8" Mesh Fabric, Deduct	-92.50	
			For Gate With Single Barb Wire Arm, Add	116.96	
			For Gate With Double Barb Wire Arm, Add	170.12	
32 31 13 13-0460	EA		20' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm 1,536.01		110.85
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-225.60	
			For 1" Mesh Fabric, Add	523.40	
			For 1-1/4" Mesh Fabric, Add	336.90	
			For 1-3/4" Mesh Fabric, Add	209.36	
			For 2-1/8" Mesh Fabric, Deduct	-104.68	
			For Gate With Single Barb Wire Arm, Add	132.35	
			For Gate With Double Barb Wire Arm, Add	192.51	
32 31 13 13-0461	EA		22' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm 1,669.55		121.96
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-244.40	
			For 1" Mesh Fabric, Add	567.01	
			For 1-1/4" Mesh Fabric, Add	364.97	
			For 1-3/4" Mesh Fabric, Add	226.80	
			For 2-1/8" Mesh Fabric, Deduct	-113.40	
			For Gate With Single Barb Wire Arm, Add	143.38	
			For Gate With Double Barb Wire Arm, Add	208.56	
32 31 13 13-0462	EA		24' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm 1,824.41		135.45
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-265.81	
			For 1" Mesh Fabric, Add	616.68	
			For 1-1/4" Mesh Fabric, Add	396.94	
			For 1-3/4" Mesh Fabric, Add	246.67	
			For 2-1/8" Mesh Fabric, Deduct	-123.34	
			For Gate With Single Barb Wire Arm, Add	155.94	
			For Gate With Double Barb Wire Arm, Add	226.82	
32 31 13 13-0463	EA		26' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm 1,993.40		152.38
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-287.96	
			For 1" Mesh Fabric, Add	668.07	
			For 1-1/4" Mesh Fabric, Add	430.02	
			For 1-3/4" Mesh Fabric, Add	267.23	
			For 2-1/8" Mesh Fabric, Deduct	-133.61	
			For Gate With Single Barb Wire Arm, Add	168.94	
			For Gate With Double Barb Wire Arm, Add	245.73	
32 31 13 13-0464	EA		28' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm 2,176.89		174.12
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-310.11	
			For 1" Mesh Fabric, Add	719.46	
			For 1-1/4" Mesh Fabric, Add	463.10	
			For 1-3/4" Mesh Fabric, Add	287.78	
			For 2-1/8" Mesh Fabric, Deduct	-143.89	
			For Gate With Single Barb Wire Arm, Add	181.93	
			For Gate With Double Barb Wire Arm, Add	264.63	
32 31 13 13-0465	EA		30' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm 2,382.19		203.18
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-332.26	
			For 1" Mesh Fabric, Add	770.85	
			For 1-1/4" Mesh Fabric, Add	496.18	
			For 1-3/4" Mesh Fabric, Add	308.34	
			For 2-1/8" Mesh Fabric, Deduct	-154.17	
			For Gate With Single Barb Wire Arm, Add	194.93	
			For Gate With Double Barb Wire Arm, Add	283.53	
32 31 13 13-0466			7' Fence Height (32 31 13 13-0405)		
32 31 13 13-0467	EA		3' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm 245.70		30.13
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-29.08	
			For 1" Mesh Fabric, Add	67.47	
			For 1-1/4" Mesh Fabric, Add	43.43	
			For 1-3/4" Mesh Fabric, Add	26.99	
			For 2-1/8" Mesh Fabric, Deduct	-13.49	
			For Gate With Single Barb Wire Arm, Add	17.06	
			For Gate With Double Barb Wire Arm, Add	24.82	
32 31 13 13-0468	EA		4' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm 297.41		30.13
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-38.78	
			For 1" Mesh Fabric, Add	89.96	
			For 1-1/4" Mesh Fabric, Add	57.91	
			For 1-3/4" Mesh Fabric, Add	35.98	
			For 2-1/8" Mesh Fabric, Deduct	-17.99	
			For Gate With Single Barb Wire Arm, Add	22.75	
			For Gate With Double Barb Wire Arm, Add	33.09	
32 31 13 13-0469	EA		5' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm 340.80		31.70
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-46.05	
			For 1" Mesh Fabric, Add	106.84	
			For 1-1/4" Mesh Fabric, Add	68.77	
			For 1-3/4" Mesh Fabric, Add	42.73	
			For 2-1/8" Mesh Fabric, Deduct	-21.37	
			For Gate With Single Barb Wire Arm, Add	27.02	
			For Gate With Double Barb Wire Arm, Add	39.30	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0470	EA	6' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	400.18	38.57
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-53.32	
		For 1" Mesh Fabric, Add	123.70	
		For 1-1/4" Mesh Fabric, Add	79.62	
		For 1-3/4" Mesh Fabric, Add	49.48	
		For 2-1/8" Mesh Fabric, Deduct	-24.74	
		For Gate With Single Barb Wire Arm, Add	31.28	
		For Gate With Double Barb Wire Arm, Add	45.50	
32 31 13 13-0471	EA	7' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	458.59	45.15
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-60.59	
		For 1" Mesh Fabric, Add	140.57	
		For 1-1/4" Mesh Fabric, Add	90.48	
		For 1-3/4" Mesh Fabric, Add	56.23	
		For 2-1/8" Mesh Fabric, Deduct	-28.11	
		For Gate With Single Barb Wire Arm, Add	35.55	
		For Gate With Double Barb Wire Arm, Add	51.70	
32 31 13 13-0472	EA	8' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	518.00	51.92
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-67.86	
		For 1" Mesh Fabric, Add	157.44	
		For 1-1/4" Mesh Fabric, Add	101.34	
		For 1-3/4" Mesh Fabric, Add	62.98	
		For 2-1/8" Mesh Fabric, Deduct	-31.49	
		For Gate With Single Barb Wire Arm, Add	39.81	
		For Gate With Double Barb Wire Arm, Add	57.91	
32 31 13 13-0473	EA	9' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	576.40	58.50
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-75.13	
		For 1" Mesh Fabric, Add	174.31	
		For 1-1/4" Mesh Fabric, Add	112.20	
		For 1-3/4" Mesh Fabric, Add	69.72	
		For 2-1/8" Mesh Fabric, Deduct	-34.86	
		For Gate With Single Barb Wire Arm, Add	44.08	
		For Gate With Double Barb Wire Arm, Add	64.11	
32 31 13 13-0474	EA	10' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	635.80	65.37
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-82.40	
		For 1" Mesh Fabric, Add	191.18	
		For 1-1/4" Mesh Fabric, Add	123.06	
		For 1-3/4" Mesh Fabric, Add	76.47	
		For 2-1/8" Mesh Fabric, Deduct	-38.24	
		For Gate With Single Barb Wire Arm, Add	48.34	
		For Gate With Double Barb Wire Arm, Add	70.32	
32 31 13 13-0475	EA	10' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	816.76	65.37
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-116.33	
		For 1" Mesh Fabric, Add	269.90	
		For 1-1/4" Mesh Fabric, Add	173.73	
		For 1-3/4" Mesh Fabric, Add	107.96	
		For 2-1/8" Mesh Fabric, Deduct	-53.98	
		For Gate With Single Barb Wire Arm, Add	68.25	
		For Gate With Double Barb Wire Arm, Add	99.27	
32 31 13 13-0476	EA	12' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,006.01	87.06
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-139.60	
		For 1" Mesh Fabric, Add	323.87	
		For 1-1/4" Mesh Fabric, Add	208.47	
		For 1-3/4" Mesh Fabric, Add	129.55	
		For 2-1/8" Mesh Fabric, Deduct	-64.77	
		For Gate With Single Barb Wire Arm, Add	81.90	
		For Gate With Double Barb Wire Arm, Add	119.12	
32 31 13 13-0477	EA	14' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,150.22	93.81
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-162.87	
		For 1" Mesh Fabric, Add	377.85	
		For 1-1/4" Mesh Fabric, Add	243.21	
		For 1-3/4" Mesh Fabric, Add	151.14	
		For 2-1/8" Mesh Fabric, Deduct	-75.57	
		For Gate With Single Barb Wire Arm, Add	95.55	
		For Gate With Double Barb Wire Arm, Add	138.98	
32 31 13 13-0478	EA	16' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,297.76	101.58
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-186.13	
		For 1" Mesh Fabric, Add	431.82	
		For 1-1/4" Mesh Fabric, Add	277.95	
		For 1-3/4" Mesh Fabric, Add	172.73	
		For 2-1/8" Mesh Fabric, Deduct	-86.36	
		For Gate With Single Barb Wire Arm, Add	109.20	
		For Gate With Double Barb Wire Arm, Add	158.83	
32 31 13 13-0479	EA	18' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,449.59	110.85
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-209.40	
		For 1" Mesh Fabric, Add	485.80	
		For 1-1/4" Mesh Fabric, Add	312.70	
		For 1-3/4" Mesh Fabric, Add	194.32	
		For 2-1/8" Mesh Fabric, Deduct	-97.16	
		For Gate With Single Barb Wire Arm, Add	122.85	
		For Gate With Double Barb Wire Arm, Add	178.69	



Exterior Improvements		32	32
Site Improvements		32 30	
Fences and Gates		32 31	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
32 31 13 13-0480	EA	20' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,606.94	121.96
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-232.66	
		For 1" Mesh Fabric, Add	539.77	
		For 1-1/4" Mesh Fabric, Add	347.44	
		For 1-3/4" Mesh Fabric, Add	215.91	
		For 2-1/8" Mesh Fabric, Deduct	-107.95	
		For Gate With Single Barb Wire Arm, Add	136.49	
		For Gate With Double Barb Wire Arm, Add	198.54	
32 31 13 13-0481	EA	22' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,771.69	135.45
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-255.92	
		For 1" Mesh Fabric, Add	593.74	
		For 1-1/4" Mesh Fabric, Add	382.18	
		For 1-3/4" Mesh Fabric, Add	237.50	
		For 2-1/8" Mesh Fabric, Deduct	-118.75	
		For Gate With Single Barb Wire Arm, Add	150.14	
		For Gate With Double Barb Wire Arm, Add	218.39	
32 31 13 13-0482	EA	24' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,946.64	152.38
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-279.19	
		For 1" Mesh Fabric, Add	647.73	
		For 1-1/4" Mesh Fabric, Add	416.93	
		For 1-3/4" Mesh Fabric, Add	259.09	
		For 2-1/8" Mesh Fabric, Deduct	-129.55	
		For Gate With Single Barb Wire Arm, Add	163.79	
		For Gate With Double Barb Wire Arm, Add	238.24	
32 31 13 13-0483	EA	26' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,136.10	174.12
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-302.46	
		For 1" Mesh Fabric, Add	701.71	
		For 1-1/4" Mesh Fabric, Add	451.68	
		For 1-3/4" Mesh Fabric, Add	280.68	
		For 2-1/8" Mesh Fabric, Deduct	-140.34	
		For Gate With Single Barb Wire Arm, Add	177.44	
		For Gate With Double Barb Wire Arm, Add	258.10	
32 31 13 13-0484	EA	28' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,347.33	203.18
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-325.73	
		For 1" Mesh Fabric, Add	755.68	
		For 1-1/4" Mesh Fabric, Add	486.42	
		For 1-3/4" Mesh Fabric, Add	302.27	
		For 2-1/8" Mesh Fabric, Deduct	-151.14	
		For Gate With Single Barb Wire Arm, Add	191.09	
		For Gate With Double Barb Wire Arm, Add	277.95	
32 31 13 13-0485	EA	30' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,593.48	243.79
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-349.00	
		For 1" Mesh Fabric, Add	809.67	
		For 1-1/4" Mesh Fabric, Add	521.17	
		For 1-3/4" Mesh Fabric, Add	323.87	
		For 2-1/8" Mesh Fabric, Deduct	-161.93	
		For Gate With Single Barb Wire Arm, Add	204.74	
		For Gate With Double Barb Wire Arm, Add	297.81	
32 31 13 13-0486 8' Fence Height (32 31 13 13-0405)				
32 31 13 13-0487	EA	3' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	286.15	32.69
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-35.25	
		For 1" Mesh Fabric, Add	81.78	
		For 1-1/4" Mesh Fabric, Add	52.64	
		For 1-3/4" Mesh Fabric, Add	32.71	
		For 2-1/8" Mesh Fabric, Deduct	-16.36	
		For Gate With Single Barb Wire Arm, Add	20.68	
		For Gate With Double Barb Wire Arm, Add	30.08	
32 31 13 13-0488	EA	4' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	348.82	32.69
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-47.00	
		For 1" Mesh Fabric, Add	109.04	
		For 1-1/4" Mesh Fabric, Add	70.19	
		For 1-3/4" Mesh Fabric, Add	43.62	
		For 2-1/8" Mesh Fabric, Deduct	-21.81	
		For Gate With Single Barb Wire Arm, Add	27.57	
		For Gate With Double Barb Wire Arm, Add	40.11	
32 31 13 13-0489	EA	5' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	390.60	32.69
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-54.83	
		For 1" Mesh Fabric, Add	127.22	
		For 1-1/4" Mesh Fabric, Add	81.89	
		For 1-3/4" Mesh Fabric, Add	50.89	
		For 2-1/8" Mesh Fabric, Deduct	-25.44	
		For Gate With Single Barb Wire Arm, Add	32.17	
		For Gate With Double Barb Wire Arm, Add	46.79	
32 31 13 13-0490	EA	6' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	457.89	41.22
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-62.67	
		For 1" Mesh Fabric, Add	145.39	
		For 1-1/4" Mesh Fabric, Add	93.58	
		For 1-3/4" Mesh Fabric, Add	58.15	
		For 2-1/8" Mesh Fabric, Deduct	-29.08	
		For Gate With Single Barb Wire Arm, Add	36.76	
		For Gate With Double Barb Wire Arm, Add	53.48	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0491	EA	7' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	525.19	49.66
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-70.50	
		For 1" Mesh Fabric, Add	163.56	
		For 1-1/4" Mesh Fabric, Add	105.28	
		For 1-3/4" Mesh Fabric, Add	65.42	
		For 2-1/8" Mesh Fabric, Deduct	-32.71	
		For Gate With Single Barb Wire Arm, Add	41.36	
		For Gate With Double Barb Wire Arm, Add	60.16	
32 31 13 13-0492	EA	8' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	591.51	57.81
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-78.33	
		For 1" Mesh Fabric, Add	181.73	
		For 1-1/4" Mesh Fabric, Add	116.98	
		For 1-3/4" Mesh Fabric, Add	72.69	
		For 2-1/8" Mesh Fabric, Deduct	-36.35	
		For Gate With Single Barb Wire Arm, Add	45.96	
		For Gate With Double Barb Wire Arm, Add	66.84	
32 31 13 13-0493	EA	9' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	658.81	66.35
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-86.17	
		For 1" Mesh Fabric, Add	199.91	
		For 1-1/4" Mesh Fabric, Add	128.68	
		For 1-3/4" Mesh Fabric, Add	79.96	
		For 2-1/8" Mesh Fabric, Deduct	-39.98	
		For Gate With Single Barb Wire Arm, Add	50.55	
		For Gate With Double Barb Wire Arm, Add	73.53	
32 31 13 13-0494	EA	10' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	726.09	74.89
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-94.00	
		For 1" Mesh Fabric, Add	218.08	
		For 1-1/4" Mesh Fabric, Add	140.38	
		For 1-3/4" Mesh Fabric, Add	87.23	
		For 2-1/8" Mesh Fabric, Deduct	-43.62	
		For Gate With Single Barb Wire Arm, Add	55.15	
		For Gate With Double Barb Wire Arm, Add	80.21	
32 31 13 13-0495	EA	10' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,013.48	87.06
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-141.00	
		For 1" Mesh Fabric, Add	327.12	
		For 1-1/4" Mesh Fabric, Add	210.56	
		For 1-3/4" Mesh Fabric, Add	130.85	
		For 2-1/8" Mesh Fabric, Deduct	-65.42	
		For Gate With Single Barb Wire Arm, Add	82.72	
		For Gate With Double Barb Wire Arm, Add	120.32	
32 31 13 13-0496	EA	12' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,183.99	93.81
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-169.20	
		For 1" Mesh Fabric, Add	392.54	
		For 1-1/4" Mesh Fabric, Add	252.67	
		For 1-3/4" Mesh Fabric, Add	157.02	
		For 2-1/8" Mesh Fabric, Deduct	-78.51	
		For Gate With Single Barb Wire Arm, Add	99.26	
		For Gate With Double Barb Wire Arm, Add	144.38	
32 31 13 13-0497	EA	14' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,357.86	101.58
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-197.40	
		For 1" Mesh Fabric, Add	457.96	
		For 1-1/4" Mesh Fabric, Add	294.78	
		For 1-3/4" Mesh Fabric, Add	183.19	
		For 2-1/8" Mesh Fabric, Deduct	-91.59	
		For Gate With Single Barb Wire Arm, Add	115.81	
		For Gate With Double Barb Wire Arm, Add	168.45	
32 31 13 13-0498	EA	16' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,535.99	110.85
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-225.60	
		For 1" Mesh Fabric, Add	523.39	
		For 1-1/4" Mesh Fabric, Add	336.89	
		For 1-3/4" Mesh Fabric, Add	209.36	
		For 2-1/8" Mesh Fabric, Deduct	-104.68	
		For Gate With Single Barb Wire Arm, Add	132.35	
		For Gate With Double Barb Wire Arm, Add	192.51	
32 31 13 13-0499	EA	18' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,719.67	121.96
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-253.80	
		For 1" Mesh Fabric, Add	588.81	
		For 1-1/4" Mesh Fabric, Add	379.01	
		For 1-3/4" Mesh Fabric, Add	235.52	
		For 2-1/8" Mesh Fabric, Deduct	-117.76	
		For Gate With Single Barb Wire Arm, Add	148.89	
		For Gate With Double Barb Wire Arm, Add	216.57	
32 31 13 13-0500	EA	20' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,910.75	135.45
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-282.00	
		For 1" Mesh Fabric, Add	654.24	
		For 1-1/4" Mesh Fabric, Add	421.12	
		For 1-3/4" Mesh Fabric, Add	261.69	
		For 2-1/8" Mesh Fabric, Deduct	-130.85	
		For Gate With Single Barb Wire Arm, Add	165.44	
		For Gate With Double Barb Wire Arm, Add	240.64	



Exterior Improvements		32	32
Site Improvements		32 30	
Fences and Gates		32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0501	EA	22'	Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	2,112.00 -310.20 719.66 463.23 287.86 -143.93 181.98 264.70	152.38
32 31 13 13-0502	EA	24'	Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	2,327.76 -338.40 785.08 505.34 314.03 -157.02 198.53 288.77	174.12
32 31 13 13-0503	EA	26'	Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	2,565.32 -366.60 850.51 547.45 340.20 -170.10 215.07 312.83	203.18
32 31 13 13-0504	EA	28'	Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	2,837.75 -394.80 915.93 589.56 366.37 -183.19 231.61 336.89	243.79
32 31 13 13-0505	EA	30'	Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	3,171.18 -423.00 981.35 631.67 392.54 -196.27 248.16 360.96	304.76
32 31 13 13-0506 10' Fence Height (32 31 13 13-0405)					
32 31 13 13-0507	EA	3'	Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	327.14 -40.89 94.87 61.07 37.95 -18.97 23.99 34.89	36.32
32 31 13 13-0508	EA	4'	Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	399.83 -54.52 126.49 81.42 50.60 -25.30 31.99 46.52	36.32
32 31 13 13-0509	EA	5'	Wide x 10' High Gate Single Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	453.10 -63.61 147.57 94.99 59.03 -29.51 37.32 54.28	37.89
32 31 13 13-0510	EA	6'	Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	529.04 -72.70 168.65 108.56 67.46 -33.73 42.65 62.03	47.11
32 31 13 13-0511	EA	7'	Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm..... For 1-5/8" Schedule 40 Pipe Frame, Deduct For 1" Mesh Fabric, Add For 1-1/4" Mesh Fabric, Add For 1-3/4" Mesh Fabric, Add For 2-1/8" Mesh Fabric, Deduct For Gate With Single Barb Wire Arm, Add For Gate With Double Barb Wire Arm, Add	604.02 -81.78 189.74 122.13 75.90 -37.95 47.98 69.79	55.85

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0512	EA 8' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	679.96	65.07
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-90.87	
		For 1" Mesh Fabric, Add	210.82	
		For 1-1/4" Mesh Fabric, Add	135.70	
		For 1-3/4" Mesh Fabric, Add	84.33	
		For 2-1/8" Mesh Fabric, Deduct	-42.16	
		For Gate With Single Barb Wire Arm, Add	53.31	
		For Gate With Double Barb Wire Arm, Add	77.54	
32 31 13	13-0513	EA 9' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	754.93	73.91
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-99.96	
		For 1" Mesh Fabric, Add	231.91	
		For 1-1/4" Mesh Fabric, Add	149.27	
		For 1-3/4" Mesh Fabric, Add	92.76	
		For 2-1/8" Mesh Fabric, Deduct	-46.38	
		For Gate With Single Barb Wire Arm, Add	58.64	
		For Gate With Double Barb Wire Arm, Add	85.30	
32 31 13	13-0514	EA 10' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	830.89	83.04
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-109.05	
		For 1" Mesh Fabric, Add	252.99	
		For 1-1/4" Mesh Fabric, Add	162.84	
		For 1-3/4" Mesh Fabric, Add	101.19	
		For 2-1/8" Mesh Fabric, Deduct	-50.60	
		For Gate With Single Barb Wire Arm, Add	63.97	
		For Gate With Double Barb Wire Arm, Add	93.05	
32 31 13	13-0515	EA 10' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,162.89	96.79
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-163.57	
		For 1" Mesh Fabric, Add	379.47	
		For 1-1/4" Mesh Fabric, Add	244.26	
		For 1-3/4" Mesh Fabric, Add	151.79	
		For 2-1/8" Mesh Fabric, Deduct	-75.89	
		For Gate With Single Barb Wire Arm, Add	95.96	
		For Gate With Double Barb Wire Arm, Add	139.58	
32 31 13	13-0516	EA 12' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,359.60	104.11
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-196.28	
		For 1" Mesh Fabric, Add	455.37	
		For 1-1/4" Mesh Fabric, Add	293.11	
		For 1-3/4" Mesh Fabric, Add	182.15	
		For 2-1/8" Mesh Fabric, Deduct	-91.07	
		For Gate With Single Barb Wire Arm, Add	115.15	
		For Gate With Double Barb Wire Arm, Add	167.49	
32 31 13	13-0517	EA 14' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,560.25	112.92
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-228.99	
		For 1" Mesh Fabric, Add	531.26	
		For 1-1/4" Mesh Fabric, Add	341.96	
		For 1-3/4" Mesh Fabric, Add	212.50	
		For 2-1/8" Mesh Fabric, Deduct	-106.25	
		For Gate With Single Barb Wire Arm, Add	134.34	
		For Gate With Double Barb Wire Arm, Add	195.41	
32 31 13	13-0518	EA 16' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,765.39	123.10
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-261.71	
		For 1" Mesh Fabric, Add	607.16	
		For 1-1/4" Mesh Fabric, Add	390.81	
		For 1-3/4" Mesh Fabric, Add	242.86	
		For 2-1/8" Mesh Fabric, Deduct	-121.43	
		For Gate With Single Barb Wire Arm, Add	153.53	
		For Gate With Double Barb Wire Arm, Add	223.32	
32 31 13	13-0519	EA 18' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,976.99	135.45
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-294.42	
		For 1" Mesh Fabric, Add	683.05	
		For 1-1/4" Mesh Fabric, Add	439.66	
		For 1-3/4" Mesh Fabric, Add	273.22	
		For 2-1/8" Mesh Fabric, Deduct	-136.61	
		For Gate With Single Barb Wire Arm, Add	172.73	
		For Gate With Double Barb Wire Arm, Add	251.24	
32 31 13	13-0520	EA 20' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,196.44	150.43
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-327.13	
		For 1" Mesh Fabric, Add	758.94	
		For 1-1/4" Mesh Fabric, Add	488.52	
		For 1-3/4" Mesh Fabric, Add	303.58	
		For 2-1/8" Mesh Fabric, Deduct	-151.79	
		For Gate With Single Barb Wire Arm, Add	191.92	
		For Gate With Double Barb Wire Arm, Add	279.15	
32 31 13	13-0521	EA 22' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,427.62	169.32
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-359.84	
		For 1" Mesh Fabric, Add	834.84	
		For 1-1/4" Mesh Fabric, Add	537.37	
		For 1-3/4" Mesh Fabric, Add	333.94	
		For 2-1/8" Mesh Fabric, Deduct	-166.97	
		For Gate With Single Barb Wire Arm, Add	211.11	
		For Gate With Double Barb Wire Arm, Add	307.07	



Exterior Improvements		32	32
Site Improvements		32 30	
Fences and Gates		32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0522	EA		24 Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,674.36	193.33
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-392.56	
			For 1" Mesh Fabric, Add	910.73	
			For 1-1/4" Mesh Fabric, Add	586.22	
			For 1-3/4" Mesh Fabric, Add	364.29	
			For 2-1/8" Mesh Fabric, Deduct	-182.15	
			For Gate With Single Barb Wire Arm, Add	230.30	
			For Gate With Double Barb Wire Arm, Add	334.98	
32 31 13 13-0523	EA		26' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,946.04	225.71
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-425.27	
			For 1" Mesh Fabric, Add	986.63	
			For 1-1/4" Mesh Fabric, Add	635.07	
			For 1-3/4" Mesh Fabric, Add	394.65	
			For 2-1/8" Mesh Fabric, Deduct	-197.33	
			For Gate With Single Barb Wire Arm, Add	249.49	
			For Gate With Double Barb Wire Arm, Add	362.90	
32 31 13 13-0524	EA		28' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	3,255.38	270.67
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-457.98	
			For 1" Mesh Fabric, Add	1,062.52	
			For 1-1/4" Mesh Fabric, Add	683.92	
			For 1-3/4" Mesh Fabric, Add	425.01	
			For 2-1/8" Mesh Fabric, Deduct	-212.50	
			For Gate With Single Barb Wire Arm, Add	268.68	
			For Gate With Double Barb Wire Arm, Add	390.81	
32 31 13 13-0525	EA		30' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	3,633.94	338.63
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-490.70	
			For 1" Mesh Fabric, Add	1,138.42	
			For 1-1/4" Mesh Fabric, Add	732.77	
			For 1-3/4" Mesh Fabric, Add	455.37	
			For 2-1/8" Mesh Fabric, Deduct	-227.68	
			For Gate With Single Barb Wire Arm, Add	287.88	
			For Gate With Double Barb Wire Arm, Add	418.73	
32 31 13 13-0526 12' Fence Height (32 31 13 13-0405)					
32 31 13 13-0527	EA		3' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	425.32	40.34
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-57.03	
			For 1" Mesh Fabric, Add	132.30	
			For 1-1/4" Mesh Fabric, Add	85.16	
			For 1-3/4" Mesh Fabric, Add	52.92	
			For 2-1/8" Mesh Fabric, Deduct	-26.46	
			For Gate With Single Barb Wire Arm, Add	33.46	
			For Gate With Double Barb Wire Arm, Add	48.66	
32 31 13 13-0528	EA		4' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	526.43	40.34
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-75.98	
			For 1" Mesh Fabric, Add	176.28	
			For 1-1/4" Mesh Fabric, Add	113.47	
			For 1-3/4" Mesh Fabric, Add	70.51	
			For 2-1/8" Mesh Fabric, Deduct	-35.26	
			For Gate With Single Barb Wire Arm, Add	44.58	
			For Gate With Double Barb Wire Arm, Add	64.84	
32 31 13 13-0529	EA		5' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	606.08	41.82
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-90.08	
			For 1" Mesh Fabric, Add	209.00	
			For 1-1/4" Mesh Fabric, Add	134.53	
			For 1-3/4" Mesh Fabric, Add	83.60	
			For 2-1/8" Mesh Fabric, Deduct	-41.80	
			For Gate With Single Barb Wire Arm, Add	52.85	
			For Gate With Double Barb Wire Arm, Add	76.87	
32 31 13 13-0530	EA		6' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	699.17	51.92
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-101.83	
			For 1" Mesh Fabric, Add	236.25	
			For 1-1/4" Mesh Fabric, Add	152.07	
			For 1-3/4" Mesh Fabric, Add	94.50	
			For 2-1/8" Mesh Fabric, Deduct	-47.25	
			For Gate With Single Barb Wire Arm, Add	59.74	
			For Gate With Double Barb Wire Arm, Add	86.90	
32 31 13 13-0531	EA		7' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	799.23	62.13
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-114.89	
			For 1" Mesh Fabric, Add	266.54	
			For 1-1/4" Mesh Fabric, Add	171.57	
			For 1-3/4" Mesh Fabric, Add	106.62	
			For 2-1/8" Mesh Fabric, Deduct	-53.31	
			For Gate With Single Barb Wire Arm, Add	67.40	
			For Gate With Double Barb Wire Arm, Add	98.04	
32 31 13 13-0532	EA		8' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	898.30	71.95
			For 1-5/8" Schedule 40 Pipe Frame, Deduct	-127.94	
			For 1" Mesh Fabric, Add	296.83	
			For 1-1/4" Mesh Fabric, Add	191.06	
			For 1-3/4" Mesh Fabric, Add	118.73	
			For 2-1/8" Mesh Fabric, Deduct	-59.37	
			For Gate With Single Barb Wire Arm, Add	75.06	
			For Gate With Double Barb Wire Arm, Add	109.18	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0533	EA	9' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	998.36	82.05
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-141.00	
		For 1" Mesh Fabric, Add	327.12	
		For 1-1/4" Mesh Fabric, Add	210.56	
		For 1-3/4" Mesh Fabric, Add	130.85	
		For 2-1/8" Mesh Fabric, Deduct	-65.42	
		For Gate With Single Barb Wire Arm, Add	82.72	
		For Gate With Double Barb Wire Arm, Add	120.32	
32 31 13 13-0534	EA	10' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	1,091.46	92.17
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-152.75	
		For 1" Mesh Fabric, Add	354.38	
		For 1-1/4" Mesh Fabric, Add	228.11	
		For 1-3/4" Mesh Fabric, Add	141.75	
		For 2-1/8" Mesh Fabric, Deduct	-70.88	
		For Gate With Single Barb Wire Arm, Add	89.61	
		For Gate With Double Barb Wire Arm, Add	130.35	
32 31 13 13-0535	EA	10' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,544.30	107.53
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-229.05	
		For 1" Mesh Fabric, Add	531.39	
		For 1-1/4" Mesh Fabric, Add	342.05	
		For 1-3/4" Mesh Fabric, Add	212.56	
		For 2-1/8" Mesh Fabric, Deduct	-106.28	
		For Gate With Single Barb Wire Arm, Add	134.37	
		For Gate With Double Barb Wire Arm, Add	195.45	
32 31 13 13-0536	EA	12' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	1,853.14	115.78
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-282.32	
		For 1" Mesh Fabric, Add	654.97	
		For 1-1/4" Mesh Fabric, Add	421.59	
		For 1-3/4" Mesh Fabric, Add	261.99	
		For 2-1/8" Mesh Fabric, Deduct	-130.99	
		For Gate With Single Barb Wire Arm, Add	165.62	
		For Gate With Double Barb Wire Arm, Add	240.91	
32 31 13 13-0537	EA	14' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,134.65	125.38
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-329.63	
		For 1" Mesh Fabric, Add	764.74	
		For 1-1/4" Mesh Fabric, Add	492.25	
		For 1-3/4" Mesh Fabric, Add	305.90	
		For 2-1/8" Mesh Fabric, Deduct	-152.95	
		For Gate With Single Barb Wire Arm, Add	193.38	
		For Gate With Double Barb Wire Arm, Add	281.28	
32 31 13 13-0538	EA	16' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,419.46	136.71
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-376.63	
		For 1" Mesh Fabric, Add	873.78	
		For 1-1/4" Mesh Fabric, Add	562.43	
		For 1-3/4" Mesh Fabric, Add	349.51	
		For 2-1/8" Mesh Fabric, Deduct	-174.76	
		For Gate With Single Barb Wire Arm, Add	220.96	
		For Gate With Double Barb Wire Arm, Add	321.39	
32 31 13 13-0539	EA	18' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	2,707.96	150.55
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-423.00	
		For 1" Mesh Fabric, Add	981.36	
		For 1-1/4" Mesh Fabric, Add	631.68	
		For 1-3/4" Mesh Fabric, Add	392.55	
		For 2-1/8" Mesh Fabric, Deduct	-196.27	
		For Gate With Single Barb Wire Arm, Add	248.16	
		For Gate With Double Barb Wire Arm, Add	360.96	
32 31 13 13-0540	EA	20' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	3,008.43	167.14
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-470.00	
		For 1" Mesh Fabric, Add	1,090.41	
		For 1-1/4" Mesh Fabric, Add	701.87	
		For 1-3/4" Mesh Fabric, Add	436.16	
		For 2-1/8" Mesh Fabric, Deduct	-218.08	
		For Gate With Single Barb Wire Arm, Add	275.73	
		For Gate With Double Barb Wire Arm, Add	401.07	
32 31 13 13-0541	EA	22' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	3,322.29	188.08
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-517.00	
		For 1" Mesh Fabric, Add	1,199.45	
		For 1-1/4" Mesh Fabric, Add	772.06	
		For 1-3/4" Mesh Fabric, Add	479.78	
		For 2-1/8" Mesh Fabric, Deduct	-239.89	
		For Gate With Single Barb Wire Arm, Add	303.31	
		For Gate With Double Barb Wire Arm, Add	441.18	
32 31 13 13-0542	EA	24' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	3,653.26	214.85
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-564.00	
		For 1" Mesh Fabric, Add	1,308.49	
		For 1-1/4" Mesh Fabric, Add	842.25	
		For 1-3/4" Mesh Fabric, Add	523.40	
		For 2-1/8" Mesh Fabric, Deduct	-261.70	
		For Gate With Single Barb Wire Arm, Add	330.88	
		For Gate With Double Barb Wire Arm, Add	481.28	



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MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
32 31 13 13-0543	EA	26' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	4,020.30	250.88
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-612.57	
		For 1" Mesh Fabric, Add	1,421.16	
		For 1-1/4" Mesh Fabric, Add	914.77	
		For 1-3/4" Mesh Fabric, Add	568.46	
		For 2-1/8" Mesh Fabric, Deduct	-284.23	
		For Gate With Single Barb Wire Arm, Add	359.37	
		For Gate With Double Barb Wire Arm, Add	522.73	
32 31 13 13-0544	EA	28' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	4,420.81	300.76
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-659.57	
		For 1" Mesh Fabric, Add	1,530.20	
		For 1-1/4" Mesh Fabric, Add	984.96	
		For 1-3/4" Mesh Fabric, Add	612.08	
		For 2-1/8" Mesh Fabric, Deduct	-306.04	
		For Gate With Single Barb Wire Arm, Add	386.95	
		For Gate With Double Barb Wire Arm, Add	562.83	
32 31 13 13-0545	EA	30' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm	4,898.27	376.27
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-706.57	
		For 1" Mesh Fabric, Add	1,639.25	
		For 1-1/4" Mesh Fabric, Add	1,055.15	
		For 1-3/4" Mesh Fabric, Add	655.70	
		For 2-1/8" Mesh Fabric, Deduct	-327.85	
		For Gate With Single Barb Wire Arm, Add	414.52	
		For Gate With Double Barb Wire Arm, Add	602.94	
32 31 13 13-0546	Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0263)			
	Note: Includes posts (3" diameter posts for up to 15' wide gate and 4" diameter over 15' wide), caps, upper and lower rails, track brackets, roller gate wheel carrier, track rollers, 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes truss rod, latches, track rollers with brackets, pipe track clamps and two wheel carriers. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. See CSI section 32 31 13 13-0630 for additional gate accessories, 32 31 13 13-0711 for gate replacement parts.			
32 31 13 13-0547	4' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0546)			
32 31 13 13-0548	EA	10' Long x 4' High Chain Link Galvanized Steel Sliding Gate	3,011.73	371.35
		For 1" Mesh Fabric, Add	987.01	
		For 1-1/4" Mesh Fabric, Add	635.32	
		For 1-3/4" Mesh Fabric, Add	394.80	
		For 2-1/8" Mesh Fabric, Deduct	-197.40	
		For Gate With Barb Wire Arm, Add	249.59	
		For Vinyl Coated, Add	680.70	
32 31 13 13-0549	EA	12' Long x 4' High Chain Link Galvanized Steel Sliding Gate	3,619.35	448.34
		For 1" Mesh Fabric, Add	1,184.41	
		For 1-1/4" Mesh Fabric, Add	762.38	
		For 1-3/4" Mesh Fabric, Add	473.77	
		For 2-1/8" Mesh Fabric, Deduct	-236.88	
		For Gate With Barb Wire Arm, Add	299.51	
		For Vinyl Coated, Add	816.84	
32 31 13 13-0550	EA	14' Long x 4' High Chain Link Galvanized Steel Sliding Gate	4,222.79	523.04
		For 1" Mesh Fabric, Add	1,381.82	
		For 1-1/4" Mesh Fabric, Add	889.45	
		For 1-3/4" Mesh Fabric, Add	552.73	
		For 2-1/8" Mesh Fabric, Deduct	-276.36	
		For Gate With Barb Wire Arm, Add	349.43	
		For Vinyl Coated, Add	952.98	
32 31 13 13-0551	EA	16' Long x 4' High Chain Link Galvanized Steel Sliding Gate	4,832.72	601.17
		For 1" Mesh Fabric, Add	1,579.22	
		For 1-1/4" Mesh Fabric, Add	1,016.51	
		For 1-3/4" Mesh Fabric, Add	631.69	
		For 2-1/8" Mesh Fabric, Deduct	-315.84	
		For Gate With Barb Wire Arm, Add	399.34	
		For Vinyl Coated, Add	1,089.12	
32 31 13 13-0552	EA	18' Long x 4' High Chain Link Galvanized Steel Sliding Gate	5,436.86	676.34
		For 1" Mesh Fabric, Add	1,776.63	
		For 1-1/4" Mesh Fabric, Add	1,143.58	
		For 1-3/4" Mesh Fabric, Add	710.65	
		For 2-1/8" Mesh Fabric, Deduct	-355.33	
		For Gate With Barb Wire Arm, Add	449.26	
		For Vinyl Coated, Add	1,225.26	
32 31 13 13-0553	EA	20' Long x 4' High Chain Link Galvanized Steel Sliding Gate	6,027.10	744.52
		For 1" Mesh Fabric, Add	1,974.03	
		For 1-1/4" Mesh Fabric, Add	1,270.64	
		For 1-3/4" Mesh Fabric, Add	789.61	
		For 2-1/8" Mesh Fabric, Deduct	-394.81	
		For Gate With Barb Wire Arm, Add	499.18	
		For Vinyl Coated, Add	1,361.40	
32 31 13 13-0554	EA	24' Long x 4' High Chain Link Galvanized Steel Sliding Gate	7,198.74	896.56
		For 1" Mesh Fabric, Add	2,351.45	
		For 1-1/4" Mesh Fabric, Add	1,513.58	
		For 1-3/4" Mesh Fabric, Add	940.58	
		For 2-1/8" Mesh Fabric, Deduct	-470.29	
		For Gate With Barb Wire Arm, Add	594.62	
		For Vinyl Coated, Add	1,621.69	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0555	EA	30' Long x 4' High Chain Link Galvanized Steel Sliding Gate	10,191.62	1,692.33
		For 1" Mesh Fabric, Add	2,961.04	
		For 1-1/4" Mesh Fabric, Add	1,905.96	
		For 1-3/4" Mesh Fabric, Add	1,184.42	
		For 2-1/8" Mesh Fabric, Deduct	-592.21	
		For Gate With Barb Wire Arm, Add	748.77	
		For Vinyl Coated, Add	2,042.10	
32 31 13 13-0556	EA	40' Long x 4' High Chain Link Galvanized Steel Sliding Gate	13,588.83	2,256.44
		For 1" Mesh Fabric, Add	3,948.05	
		For 1-1/4" Mesh Fabric, Add	2,541.27	
		For 1-3/4" Mesh Fabric, Add	1,579.22	
		For 2-1/8" Mesh Fabric, Deduct	-789.61	
		For Gate With Barb Wire Arm, Add	998.36	
		For Vinyl Coated, Add	2,722.79	
32 31 13 13-0557 5' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0546)				
32 31 13 13-0558	EA	10' Long x 5' High Chain Link Galvanized Steel Sliding Gate	3,144.02	404.18
		For 1" Mesh Fabric, Add	1,016.02	
		For 1-1/4" Mesh Fabric, Add	653.99	
		For 1-3/4" Mesh Fabric, Add	406.41	
		For 2-1/8" Mesh Fabric, Deduct	-203.20	
		For Gate With Barb Wire Arm, Add	256.92	
		For Vinyl Coated, Add	700.70	
32 31 13 13-0559	EA	12' Long x 5' High Chain Link Galvanized Steel Sliding Gate	3,771.71	484.48
		For 1" Mesh Fabric, Add	1,219.23	
		For 1-1/4" Mesh Fabric, Add	784.79	
		For 1-3/4" Mesh Fabric, Add	487.69	
		For 2-1/8" Mesh Fabric, Deduct	-243.85	
		For Gate With Barb Wire Arm, Add	308.31	
		For Vinyl Coated, Add	840.85	
32 31 13 13-0560	EA	14' Long x 5' High Chain Link Galvanized Steel Sliding Gate	4,400.13	565.14
		For 1" Mesh Fabric, Add	1,422.43	
		For 1-1/4" Mesh Fabric, Add	915.59	
		For 1-3/4" Mesh Fabric, Add	568.97	
		For 2-1/8" Mesh Fabric, Deduct	-284.49	
		For Gate With Barb Wire Arm, Add	359.70	
		For Vinyl Coated, Add	980.99	
32 31 13 13-0561	EA	16' Long x 5' High Chain Link Galvanized Steel Sliding Gate	5,029.04	646.02
		For 1" Mesh Fabric, Add	1,625.64	
		For 1-1/4" Mesh Fabric, Add	1,046.39	
		For 1-3/4" Mesh Fabric, Add	650.26	
		For 2-1/8" Mesh Fabric, Deduct	-325.13	
		For Gate With Barb Wire Arm, Add	411.08	
		For Vinyl Coated, Add	1,121.13	
32 31 13 13-0562	EA	18' Long x 5' High Chain Link Galvanized Steel Sliding Gate	5,657.39	726.56
		For 1" Mesh Fabric, Add	1,828.84	
		For 1-1/4" Mesh Fabric, Add	1,177.18	
		For 1-3/4" Mesh Fabric, Add	731.53	
		For 2-1/8" Mesh Fabric, Deduct	-365.77	
		For Gate With Barb Wire Arm, Add	462.46	
		For Vinyl Coated, Add	1,261.27	
32 31 13 13-0563	EA	20' Long x 5' High Chain Link Galvanized Steel Sliding Gate	6,286.05	807.33
		For 1" Mesh Fabric, Add	2,032.04	
		For 1-1/4" Mesh Fabric, Add	1,307.98	
		For 1-3/4" Mesh Fabric, Add	812.82	
		For 2-1/8" Mesh Fabric, Deduct	-406.41	
		For Gate With Barb Wire Arm, Add	513.85	
		For Vinyl Coated, Add	1,401.41	
32 31 13 13-0564	EA	24' Long x 5' High Chain Link Galvanized Steel Sliding Gate	7,504.32	969.89
		For 1" Mesh Fabric, Add	2,420.56	
		For 1-1/4" Mesh Fabric, Add	1,558.06	
		For 1-3/4" Mesh Fabric, Add	968.22	
		For 2-1/8" Mesh Fabric, Deduct	-484.11	
		For Gate With Barb Wire Arm, Add	612.10	
		For Vinyl Coated, Add	1,669.35	
32 31 13 13-0565	EA	30' Long x 5' High Chain Link Galvanized Steel Sliding Gate	9,429.50	1,211.28
		For 1" Mesh Fabric, Add	3,048.06	
		For 1-1/4" Mesh Fabric, Add	1,961.97	
		For 1-3/4" Mesh Fabric, Add	1,219.22	
		For 2-1/8" Mesh Fabric, Deduct	-609.61	
		For Gate With Barb Wire Arm, Add	770.77	
		For Vinyl Coated, Add	2,102.11	
32 31 13 13-0566	EA	40' Long x 5' High Chain Link Galvanized Steel Sliding Gate	12,572.10	1,614.65
		For 1" Mesh Fabric, Add	4,064.08	
		For 1-1/4" Mesh Fabric, Add	2,615.96	
		For 1-3/4" Mesh Fabric, Add	1,625.63	
		For 2-1/8" Mesh Fabric, Deduct	-812.82	
		For Gate With Barb Wire Arm, Add	1,027.70	
		For Vinyl Coated, Add	2,802.82	

32 31 13 13-0567 6' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0546)



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0568	EA		10' Long x 6' High Chain Link Galvanized Steel Sliding Gate	3,329.98	473.85
			For 1" Mesh Fabric, Add	1,036.33	
			For 1-1/4" Mesh Fabric, Add	667.06	
			For 1-3/4" Mesh Fabric, Add	414.53	
			For 2-1/8" Mesh Fabric, Deduct	-207.27	
			For Gate With Barb Wire Arm, Add	262.06	
			For Vinyl Coated, Add	714.71	
32 31 13 13-0569	EA		12' Long x 6' High Chain Link Galvanized Steel Sliding Gate	3,992.64	566.86
			For 1" Mesh Fabric, Add	1,243.59	
			For 1-1/4" Mesh Fabric, Add	800.47	
			For 1-3/4" Mesh Fabric, Add	497.44	
			For 2-1/8" Mesh Fabric, Deduct	-248.72	
			For Gate With Barb Wire Arm, Add	314.47	
			For Vinyl Coated, Add	857.65	
32 31 13 13-0570	EA		14' Long x 6' High Chain Link Galvanized Steel Sliding Gate	4,657.86	661.24
			For 1" Mesh Fabric, Add	1,450.86	
			For 1-1/4" Mesh Fabric, Add	933.89	
			For 1-3/4" Mesh Fabric, Add	580.34	
			For 2-1/8" Mesh Fabric, Deduct	-290.17	
			For Gate With Barb Wire Arm, Add	366.88	
			For Vinyl Coated, Add	1,000.59	
32 31 13 13-0571	EA		16' Long x 6' High Chain Link Galvanized Steel Sliding Gate	5,323.51	755.85
			For 1" Mesh Fabric, Add	1,658.12	
			For 1-1/4" Mesh Fabric, Add	1,067.30	
			For 1-3/4" Mesh Fabric, Add	663.25	
			For 2-1/8" Mesh Fabric, Deduct	-331.62	
			For Gate With Barb Wire Arm, Add	419.30	
			For Vinyl Coated, Add	1,143.53	
32 31 13 13-0572	EA		18' Long x 6' High Chain Link Galvanized Steel Sliding Gate	5,988.74	850.23
			For 1" Mesh Fabric, Add	1,865.39	
			For 1-1/4" Mesh Fabric, Add	1,200.71	
			For 1-3/4" Mesh Fabric, Add	746.16	
			For 2-1/8" Mesh Fabric, Deduct	-373.08	
			For Gate With Barb Wire Arm, Add	471.71	
			For Vinyl Coated, Add	1,286.48	
32 31 13 13-0573	EA		20' Long x 6' High Chain Link Galvanized Steel Sliding Gate	6,660.34	947.81
			For 1" Mesh Fabric, Add	2,072.65	
			For 1-1/4" Mesh Fabric, Add	1,334.12	
			For 1-3/4" Mesh Fabric, Add	829.06	
			For 2-1/8" Mesh Fabric, Deduct	-414.53	
			For Gate With Barb Wire Arm, Add	524.12	
			For Vinyl Coated, Add	1,429.42	
32 31 13 13-0574	EA		24' Long x 6' High Chain Link Galvanized Steel Sliding Gate	7,943.34	1,133.82
			For 1" Mesh Fabric, Add	2,468.94	
			For 1-1/4" Mesh Fabric, Add	1,589.20	
			For 1-3/4" Mesh Fabric, Add	987.58	
			For 2-1/8" Mesh Fabric, Deduct	-493.79	
			For Gate With Barb Wire Arm, Add	624.33	
			For Vinyl Coated, Add	1,702.72	
32 31 13 13-0575	EA		30' Long x 6' High Chain Link Galvanized Steel Sliding Gate	9,982.30	1,417.65
			For 1" Mesh Fabric, Add	3,108.98	
			For 1-1/4" Mesh Fabric, Add	2,001.19	
			For 1-3/4" Mesh Fabric, Add	1,243.59	
			For 2-1/8" Mesh Fabric, Deduct	-621.80	
			For Gate With Barb Wire Arm, Add	786.18	
			For Vinyl Coated, Add	2,144.13	
32 31 13 13-0576	EA		40' Long x 6' High Chain Link Galvanized Steel Sliding Gate	13,308.17	1,889.32
			For 1" Mesh Fabric, Add	4,145.31	
			For 1-1/4" Mesh Fabric, Add	2,668.25	
			For 1-3/4" Mesh Fabric, Add	1,658.12	
			For 2-1/8" Mesh Fabric, Deduct	-829.06	
			For Gate With Barb Wire Arm, Add	1,048.24	
			For Vinyl Coated, Add	2,858.84	
32 31 13 13-0577			7' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0546)		
32 31 13 13-0578	EA		10' Long x 7' High Chain Link Galvanized Steel Sliding Gate	3,532.79	528.54
			For 1" Mesh Fabric, Add	1,076.94	
			For 1-1/4" Mesh Fabric, Add	693.20	
			For 1-3/4" Mesh Fabric, Add	430.78	
			For 2-1/8" Mesh Fabric, Deduct	-215.39	
			For Gate With Barb Wire Arm, Add	272.33	
			For Vinyl Coated, Add	742.72	
32 31 13 13-0579	EA		12' Long x 7' High Chain Link Galvanized Steel Sliding Gate	4,238.55	633.78
			For 1" Mesh Fabric, Add	1,292.36	
			For 1-1/4" Mesh Fabric, Add	831.87	
			For 1-3/4" Mesh Fabric, Add	516.95	
			For 2-1/8" Mesh Fabric, Deduct	-258.47	
			For Gate With Barb Wire Arm, Add	326.80	
			For Vinyl Coated, Add	891.29	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0580	EA	14' Long x 7' High Chain Link Galvanized Steel Sliding Gate	4,945.96	739.95
		For 1" Mesh Fabric, Add	1,507.71	
		For 1-1/4" Mesh Fabric, Add	970.48	
		For 1-3/4" Mesh Fabric, Add	603.08	
		For 2-1/8" Mesh Fabric, Deduct	-301.54	
		For Gate With Barb Wire Arm, Add	381.26	
		For Vinyl Coated, Add	1,039.80	
32 31 13 13-0581	EA	16' Long x 7' High Chain Link Galvanized Steel Sliding Gate	5,651.60	845.19
		For 1" Mesh Fabric, Add	1,723.10	
		For 1-1/4" Mesh Fabric, Add	1,109.12	
		For 1-3/4" Mesh Fabric, Add	689.24	
		For 2-1/8" Mesh Fabric, Deduct	-344.62	
		For Gate With Barb Wire Arm, Add	435.73	
		For Vinyl Coated, Add	1,188.35	
32 31 13 13-0582	EA	18' Long x 7' High Chain Link Galvanized Steel Sliding Gate	6,358.23	951.01
		For 1" Mesh Fabric, Add	1,938.49	
		For 1-1/4" Mesh Fabric, Add	1,247.76	
		For 1-3/4" Mesh Fabric, Add	775.40	
		For 2-1/8" Mesh Fabric, Deduct	-387.70	
		For Gate With Barb Wire Arm, Add	490.19	
		For Vinyl Coated, Add	1,336.89	
32 31 13 13-0583	EA	20' Long x 7' High Chain Link Galvanized Steel Sliding Gate	7,064.12	1,056.38
		For 1" Mesh Fabric, Add	2,153.89	
		For 1-1/4" Mesh Fabric, Add	1,386.41	
		For 1-3/4" Mesh Fabric, Add	861.55	
		For 2-1/8" Mesh Fabric, Deduct	-430.78	
		For Gate With Barb Wire Arm, Add	544.66	
		For Vinyl Coated, Add	1,485.44	
32 31 13 13-0584	EA	24' Long x 7' High Chain Link Galvanized Steel Sliding Gate	8,433.35	1,267.56
		For 1" Mesh Fabric, Add	2,565.70	
		For 1-1/4" Mesh Fabric, Add	1,651.48	
		For 1-3/4" Mesh Fabric, Add	1,026.28	
		For 2-1/8" Mesh Fabric, Deduct	-513.14	
		For Gate With Barb Wire Arm, Add	648.80	
		For Vinyl Coated, Add	1,769.45	
32 31 13 13-0585	EA	30' Long x 7' High Chain Link Galvanized Steel Sliding Gate	10,596.16	1,584.45
		For 1" Mesh Fabric, Add	3,230.81	
		For 1-1/4" Mesh Fabric, Add	2,079.60	
		For 1-3/4" Mesh Fabric, Add	1,292.33	
		For 2-1/8" Mesh Fabric, Deduct	-646.16	
		For Gate With Barb Wire Arm, Add	816.99	
		For Vinyl Coated, Add	2,228.15	
32 31 13 13-0586	EA	40' Long x 7' High Chain Link Galvanized Steel Sliding Gate	14,128.22	2,112.63
		For 1" Mesh Fabric, Add	4,307.76	
		For 1-1/4" Mesh Fabric, Add	2,772.81	
		For 1-3/4" Mesh Fabric, Add	1,723.10	
		For 2-1/8" Mesh Fabric, Deduct	-861.55	
		For Gate With Barb Wire Arm, Add	1,089.32	
		For Vinyl Coated, Add	2,970.87	
32 31 13 13-0587		8' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0546)		
32 31 13 13-0588	EA	10' Long x 8' High Chain Link Galvanized Steel Sliding Gate	3,694.25	572.58
		For 1" Mesh Fabric, Add	1,108.85	
		For 1-1/4" Mesh Fabric, Add	713.75	
		For 1-3/4" Mesh Fabric, Add	443.54	
		For 2-1/8" Mesh Fabric, Deduct	-221.77	
		For Gate With Barb Wire Arm, Add	280.40	
		For Vinyl Coated, Add	764.73	
32 31 13 13-0589	EA	12' Long x 8' High Chain Link Galvanized Steel Sliding Gate	4,429.79	685.48
		For 1" Mesh Fabric, Add	1,330.62	
		For 1-1/4" Mesh Fabric, Add	856.49	
		For 1-3/4" Mesh Fabric, Add	532.25	
		For 2-1/8" Mesh Fabric, Deduct	-266.12	
		For Gate With Barb Wire Arm, Add	336.48	
		For Vinyl Coated, Add	917.67	
32 31 13 13-0590	EA	14' Long x 8' High Chain Link Galvanized Steel Sliding Gate	5,168.16	799.77
		For 1" Mesh Fabric, Add	1,552.38	
		For 1-1/4" Mesh Fabric, Add	999.24	
		For 1-3/4" Mesh Fabric, Add	620.95	
		For 2-1/8" Mesh Fabric, Deduct	-310.48	
		For Gate With Barb Wire Arm, Add	392.56	
		For Vinyl Coated, Add	1,070.61	
32 31 13 13-0591	EA	16' Long x 8' High Chain Link Galvanized Steel Sliding Gate	5,906.74	914.06
		For 1" Mesh Fabric, Add	1,774.16	
		For 1-1/4" Mesh Fabric, Add	1,141.99	
		For 1-3/4" Mesh Fabric, Add	709.66	
		For 2-1/8" Mesh Fabric, Deduct	-354.83	
		For Gate With Barb Wire Arm, Add	448.64	
		For Vinyl Coated, Add	1,223.56	
32 31 13 13-0592	EA	18' Long x 8' High Chain Link Galvanized Steel Sliding Gate	6,644.05	1,027.89
		For 1" Mesh Fabric, Add	1,995.92	
		For 1-1/4" Mesh Fabric, Add	1,284.73	
		For 1-3/4" Mesh Fabric, Add	798.37	
		For 2-1/8" Mesh Fabric, Deduct	-399.18	
		For Gate With Barb Wire Arm, Add	504.72	
		For Vinyl Coated, Add	1,376.50	



Exterior Improvements			32
Site Improvements			32 30
Fences and Gates			32 31

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0593	EA		20' Long x 8' High Chain Link Galvanized Steel Sliding Gate	7,382.74	1,142.30
			For 1" Mesh Fabric, Add	2,217.70	
			For 1-1/4" Mesh Fabric, Add	1,427.48	
			For 1-3/4" Mesh Fabric, Add	887.08	
			For 2-1/8" Mesh Fabric, Deduct	-443.54	
			For Gate With Barb Wire Arm, Add	560.80	
			For Vinyl Coated, Add	1,529.45	
32 31 13 13-0594	EA		24' Long x 8' High Chain Link Galvanized Steel Sliding Gate	8,814.69	1,370.86
			For 1" Mesh Fabric, Add	2,641.72	
			For 1-1/4" Mesh Fabric, Add	1,700.41	
			For 1-3/4" Mesh Fabric, Add	1,056.69	
			For 2-1/8" Mesh Fabric, Deduct	-528.34	
			For Gate With Barb Wire Arm, Add	668.02	
			For Vinyl Coated, Add	1,821.87	
32 31 13 13-0595	EA		30' Long x 8' High Chain Link Galvanized Steel Sliding Gate	11,074.98	1,713.84
			For 1" Mesh Fabric, Add	3,326.55	
			For 1-1/4" Mesh Fabric, Add	2,141.23	
			For 1-3/4" Mesh Fabric, Add	1,330.62	
			For 2-1/8" Mesh Fabric, Deduct	-665.31	
			For Gate With Barb Wire Arm, Add	841.20	
			For Vinyl Coated, Add	2,294.17	
32 31 13 13-0596	EA		40' Long x 8' High Chain Link Galvanized Steel Sliding Gate	14,763.19	2,283.44
			For 1" Mesh Fabric, Add	4,435.39	
			For 1-1/4" Mesh Fabric, Add	2,854.96	
			For 1-3/4" Mesh Fabric, Add	1,774.16	
			For 2-1/8" Mesh Fabric, Deduct	-887.08	
			For Gate With Barb Wire Arm, Add	1,121.59	
			For Vinyl Coated, Add	3,058.89	
32 31 13 13-0597			9' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0546)		
32 31 13 13-0598	EA		10' Long x 9' High Chain Link Galvanized Steel Sliding Gate	3,885.01	624.63
			For 1" Mesh Fabric, Add	1,146.56	
			For 1-1/4" Mesh Fabric, Add	738.01	
			For 1-3/4" Mesh Fabric, Add	458.62	
			For 2-1/8" Mesh Fabric, Deduct	-229.31	
			For Gate With Barb Wire Arm, Add	289.93	
			For Vinyl Coated, Add	790.73	
32 31 13 13-0599	EA		12' Long x 9' High Chain Link Galvanized Steel Sliding Gate	4,657.38	747.27
			For 1" Mesh Fabric, Add	1,375.87	
			For 1-1/4" Mesh Fabric, Add	885.62	
			For 1-3/4" Mesh Fabric, Add	550.35	
			For 2-1/8" Mesh Fabric, Deduct	-275.17	
			For Gate With Barb Wire Arm, Add	347.92	
			For Vinyl Coated, Add	948.88	
32 31 13 13-0600	EA		14' Long x 9' High Chain Link Galvanized Steel Sliding Gate	5,433.33	871.62
			For 1" Mesh Fabric, Add	1,605.18	
			For 1-1/4" Mesh Fabric, Add	1,033.22	
			For 1-3/4" Mesh Fabric, Add	642.07	
			For 2-1/8" Mesh Fabric, Deduct	-321.04	
			For Gate With Barb Wire Arm, Add	405.91	
			For Vinyl Coated, Add	1,107.02	
32 31 13 13-0601	EA		16' Long x 9' High Chain Link Galvanized Steel Sliding Gate	6,210.27	996.54
			For 1" Mesh Fabric, Add	1,834.49	
			For 1-1/4" Mesh Fabric, Add	1,180.82	
			For 1-3/4" Mesh Fabric, Add	733.80	
			For 2-1/8" Mesh Fabric, Deduct	-366.90	
			For Gate With Barb Wire Arm, Add	463.89	
			For Vinyl Coated, Add	1,265.17	
32 31 13 13-0602	EA		18' Long x 9' High Chain Link Galvanized Steel Sliding Gate	6,986.43	1,121.01
			For 1" Mesh Fabric, Add	2,063.81	
			For 1-1/4" Mesh Fabric, Add	1,328.43	
			For 1-3/4" Mesh Fabric, Add	825.52	
			For 2-1/8" Mesh Fabric, Deduct	-412.76	
			For Gate With Barb Wire Arm, Add	521.88	
			For Vinyl Coated, Add	1,423.31	
32 31 13 13-0603	EA		20' Long x 9' High Chain Link Galvanized Steel Sliding Gate	7,762.57	1,245.48
			For 1" Mesh Fabric, Add	2,293.12	
			For 1-1/4" Mesh Fabric, Add	1,476.03	
			For 1-3/4" Mesh Fabric, Add	917.25	
			For 2-1/8" Mesh Fabric, Deduct	-458.62	
			For Gate With Barb Wire Arm, Add	579.87	
			For Vinyl Coated, Add	1,581.46	
32 31 13 13-0604	EA		24' Long x 9' High Chain Link Galvanized Steel Sliding Gate	9,268.34	1,494.41
			For 1" Mesh Fabric, Add	2,731.55	
			For 1-1/4" Mesh Fabric, Add	1,758.24	
			For 1-3/4" Mesh Fabric, Add	1,092.62	
			For 2-1/8" Mesh Fabric, Deduct	-546.31	
			For Gate With Barb Wire Arm, Add	690.74	
			For Vinyl Coated, Add	1,883.83	
32 31 13 13-0605	EA		30' Long x 9' High Chain Link Galvanized Steel Sliding Gate	11,642.84	1,867.82
			For 1" Mesh Fabric, Add	3,439.68	
			For 1-1/4" Mesh Fabric, Add	2,214.04	
			For 1-3/4" Mesh Fabric, Add	1,375.87	
			For 2-1/8" Mesh Fabric, Deduct	-687.94	
			For Gate With Barb Wire Arm, Add	869.80	
			For Vinyl Coated, Add	2,372.19	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0606 EA 40' Long x 9' High Chain Link Galvanized Steel Sliding Gate	15,527.87	2,492.45
For 1" Mesh Fabric, Add	4,586.24	
For 1-1/4" Mesh Fabric, Add	2,952.07	
For 1-3/4" Mesh Fabric, Add	1,834.50	
For 2-1/8" Mesh Fabric, Deduct	-917.25	
For Gate With Barb Wire Arm, Add	1,159.74	
For Vinyl Coated, Add	3,162.93	
32 31 13 13-0607 10' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0546)		
32 31 13 13-0608 EA 10' Long x 10' High Chain Link Galvanized Steel Sliding Gate	4,123.31	687.09
For 1" Mesh Fabric, Add	1,195.87	
For 1-1/4" Mesh Fabric, Add	769.76	
For 1-3/4" Mesh Fabric, Add	478.35	
For 2-1/8" Mesh Fabric, Deduct	-239.17	
For Gate With Barb Wire Arm, Add	302.40	
For Vinyl Coated, Add	824.74	
32 31 13 13-0609 EA 12' Long x 10' High Chain Link Galvanized Steel Sliding Gate	4,947.98	824.48
For 1" Mesh Fabric, Add	1,435.05	
For 1-1/4" Mesh Fabric, Add	923.71	
For 1-3/4" Mesh Fabric, Add	574.02	
For 2-1/8" Mesh Fabric, Deduct	-287.01	
For Gate With Barb Wire Arm, Add	362.89	
For Vinyl Coated, Add	989.69	
32 31 13 13-0610 EA 14' Long x 10' High Chain Link Galvanized Steel Sliding Gate	5,773.10	962.11
For 1" Mesh Fabric, Add	1,674.22	
For 1-1/4" Mesh Fabric, Add	1,077.66	
For 1-3/4" Mesh Fabric, Add	669.69	
For 2-1/8" Mesh Fabric, Deduct	-334.84	
For Gate With Barb Wire Arm, Add	423.37	
For Vinyl Coated, Add	1,154.64	
32 31 13 13-0611 EA 16' Long x 10' High Chain Link Galvanized Steel Sliding Gate	6,597.59	1,099.50
For 1" Mesh Fabric, Add	1,913.40	
For 1-1/4" Mesh Fabric, Add	1,231.62	
For 1-3/4" Mesh Fabric, Add	765.36	
For 2-1/8" Mesh Fabric, Deduct	-382.68	
For Gate With Barb Wire Arm, Add	483.85	
For Vinyl Coated, Add	1,319.59	
32 31 13 13-0612 EA 18' Long x 10' High Chain Link Galvanized Steel Sliding Gate	7,421.97	1,236.79
For 1" Mesh Fabric, Add	2,152.57	
For 1-1/4" Mesh Fabric, Add	1,385.56	
For 1-3/4" Mesh Fabric, Add	861.03	
For 2-1/8" Mesh Fabric, Deduct	-430.51	
For Gate With Barb Wire Arm, Add	544.33	
For Vinyl Coated, Add	1,484.53	
32 31 13 13-0613 EA 20' Long x 10' High Chain Link Galvanized Steel Sliding Gate	8,246.64	1,374.18
For 1" Mesh Fabric, Add	2,391.75	
For 1-1/4" Mesh Fabric, Add	1,539.52	
For 1-3/4" Mesh Fabric, Add	956.70	
For 2-1/8" Mesh Fabric, Deduct	-478.35	
For Gate With Barb Wire Arm, Add	604.81	
For Vinyl Coated, Add	1,649.48	
32 31 13 13-0614 EA 24' Long x 10' High Chain Link Galvanized Steel Sliding Gate	9,848.76	1,649.65
For 1" Mesh Fabric, Add	2,849.05	
For 1-1/4" Mesh Fabric, Add	1,833.87	
For 1-3/4" Mesh Fabric, Add	1,139.62	
For 2-1/8" Mesh Fabric, Deduct	-569.81	
For Gate With Barb Wire Arm, Add	720.45	
For Vinyl Coated, Add	1,964.86	
32 31 13 13-0615 EA 30' Long x 10' High Chain Link Galvanized Steel Sliding Gate	12,369.95	2,061.27
For 1" Mesh Fabric, Add	3,587.62	
For 1-1/4" Mesh Fabric, Add	2,309.27	
For 1-3/4" Mesh Fabric, Add	1,435.05	
For 2-1/8" Mesh Fabric, Deduct	-717.52	
For Gate With Barb Wire Arm, Add	907.21	
For Vinyl Coated, Add	2,474.22	
32 31 13 13-0616 EA 40' Long x 10' High Chain Link Galvanized Steel Sliding Gate	16,489.98	2,746.77
For 1" Mesh Fabric, Add	4,783.50	
For 1-1/4" Mesh Fabric, Add	3,079.03	
For 1-3/4" Mesh Fabric, Add	1,913.40	
For 2-1/8" Mesh Fabric, Deduct	-956.70	
For Gate With Barb Wire Arm, Add	1,209.62	
For Vinyl Coated, Add	3,298.97	

32 31 13 13-0617 Sliding Cantilever Gate, Single Track, Manually Operated Exposed Roller (32 31 13 13-0263)31 13 13-0263

Note: Includes posts (3" diameter posts for up to 15' wide gate and 4" diameter over 15' wide), caps, upper rail, track brackets, roller gate wheel carrier, metal track rollers for rail, 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes truss rod, latches, single track, track rollers with brackets, pipe track clamps and two wheel carriers. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. Width listed on tasks is opening width of gate. See CSI section 32 31 11 00-0020 for gate operators.



Exterior Improvements		32	32
Site Improvements		32 30	
Fences and Gates		32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0618	EA	5' High x 10' Wide Galvanized Cantilever Sliding Gate.....	5,624.24	457.61
			For 1" Mesh Fabric, Add	2,048.43	
			For 1-1/4" Mesh Fabric, Add	1,318.53	
			For 1-3/4" Mesh Fabric, Add	819.37	
			For 2-1/8" Mesh Fabric, Deduct	-409.69	
			For Gate With Single Barb Wire Arm, Add	517.99	
			For Gate With Double Barb Wire Arm, Add	753.45	
			For Aluminized Steel Gate And Post, Add	2,260.34	
			For Powder Coated Gate And Post, Add	988.90	
			For Vinyl Coated, Add	1,412.71	
32 31 13	13-0619	EA	5' High x 12' Wide Galvanized Cantilever Sliding Gate.....	6,173.60	572.00
			For 1" Mesh Fabric, Add	2,187.88	
			For 1-1/4" Mesh Fabric, Add	1,408.29	
			For 1-3/4" Mesh Fabric, Add	875.15	
			For 2-1/8" Mesh Fabric, Deduct	-437.58	
			For Gate With Single Barb Wire Arm, Add	553.26	
			For Gate With Double Barb Wire Arm, Add	804.74	
			For Aluminized Steel Gate And Post, Add	2,414.21	
			For Powder Coated Gate And Post, Add	1,056.22	
			For Vinyl Coated, Add	1,508.88	
32 31 13	13-0620	EA	5' High x 15' Wide Galvanized Cantilever Sliding Gate.....	6,727.38	686.41
			For 1" Mesh Fabric, Add	2,329.24	
			For 1-1/4" Mesh Fabric, Add	1,499.28	
			For 1-3/4" Mesh Fabric, Add	931.70	
			For 2-1/8" Mesh Fabric, Deduct	-465.85	
			For Gate With Single Barb Wire Arm, Add	589.00	
			For Gate With Double Barb Wire Arm, Add	856.73	
			For Aluminized Steel Gate And Post, Add	2,570.19	
			For Powder Coated Gate And Post, Add	1,124.46	
			For Vinyl Coated, Add	1,606.37	
32 31 13	13-0621	EA	5' High x 20' Wide Galvanized Cantilever Sliding Gate.....	7,898.92	915.20
			For 1" Mesh Fabric, Add	2,639.80	
			For 1-1/4" Mesh Fabric, Add	1,699.18	
			For 1-3/4" Mesh Fabric, Add	1,055.92	
			For 2-1/8" Mesh Fabric, Deduct	-527.96	
			For Gate With Single Barb Wire Arm, Add	667.54	
			For Gate With Double Barb Wire Arm, Add	970.96	
			For Aluminized Steel Gate And Post, Add	2,912.88	
			For Powder Coated Gate And Post, Add	1,274.39	
			For Vinyl Coated, Add	1,820.55	
32 31 13	13-0622	EA	6' High x 15' Wide Galvanized Cantilever Sliding Gate.....	7,344.98	915.20
			For 1" Mesh Fabric, Add	2,398.84	
			For 1-1/4" Mesh Fabric, Add	1,544.08	
			For 1-3/4" Mesh Fabric, Add	959.54	
			For 2-1/8" Mesh Fabric, Deduct	-479.77	
			For Gate With Single Barb Wire Arm, Add	606.60	
			For Gate With Double Barb Wire Arm, Add	882.33	
			For Aluminized Steel Gate And Post, Add	2,646.99	
			For Powder Coated Gate And Post, Add	1,158.06	
			For Vinyl Coated, Add	1,654.37	
32 31 13	13-0623	EA	6' High x 20' Wide Galvanized Cantilever Sliding Gate.....	8,612.93	1,201.21
			For 1" Mesh Fabric, Add	2,701.57	
			For 1-1/4" Mesh Fabric, Add	1,738.94	
			For 1-3/4" Mesh Fabric, Add	1,080.63	
			For 2-1/8" Mesh Fabric, Deduct	-540.31	
			For Gate With Single Barb Wire Arm, Add	683.16	
			For Gate With Double Barb Wire Arm, Add	993.68	
			For Aluminized Steel Gate And Post, Add	2,981.04	
			For Powder Coated Gate And Post, Add	1,304.21	
			For Vinyl Coated, Add	1,863.15	
32 31 13	13-0624	EA	6' High x 25' Wide Galvanized Cantilever Sliding Gate.....	11,415.39	1,487.21
			For 1" Mesh Fabric, Add	3,671.82	
			For 1-1/4" Mesh Fabric, Add	2,363.47	
			For 1-3/4" Mesh Fabric, Add	1,468.73	
			For 2-1/8" Mesh Fabric, Deduct	-734.36	
			For Gate With Single Barb Wire Arm, Add	928.51	
			For Gate With Double Barb Wire Arm, Add	1,350.56	
			For Aluminized Steel Gate And Post, Add	4,051.67	
			For Powder Coated Gate And Post, Add	1,772.60	
			For Vinyl Coated, Add	2,532.29	
32 31 13	13-0625	EA	6' High x 30' Wide Galvanized Cantilever Sliding Gate.....	12,862.08	1,773.21
			For 1" Mesh Fabric, Add	4,052.31	
			For 1-1/4" Mesh Fabric, Add	2,608.38	
			For 1-3/4" Mesh Fabric, Add	1,620.92	
			For 2-1/8" Mesh Fabric, Deduct	-810.46	
			For Gate With Single Barb Wire Arm, Add	1,024.72	
			For Gate With Double Barb Wire Arm, Add	1,490.51	
			For Aluminized Steel Gate And Post, Add	4,471.52	
			For Powder Coated Gate And Post, Add	1,956.29	
			For Vinyl Coated, Add	2,794.70	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0626	EA	8' High x 15' Wide Galvanized Cantilever Sliding Gate.....	8,597.29	1,144.00
		For 1" Mesh Fabric, Add	2,744.53	
		For 1-1/4" Mesh Fabric, Add	1,766.60	
		For 1-3/4" Mesh Fabric, Add	1,097.81	
		For 2-1/8" Mesh Fabric, Deduct	-548.91	
		For Gate With Single Barb Wire Arm, Add	694.02	
		For Gate With Double Barb Wire Arm, Add	1,009.48	
		For Aluminized Steel Gate And Post, Add	3,028.45	
		For Powder Coated Gate And Post, Add	1,324.95	
		For Vinyl Coated, Add	1,892.78	
32 31 13 13-0627	EA	8' High x 20' Wide Galvanized Cantilever Sliding Gate.....	10,193.14	1,544.41
		For 1" Mesh Fabric, Add	3,090.37	
		For 1-1/4" Mesh Fabric, Add	1,989.21	
		For 1-3/4" Mesh Fabric, Add	1,236.15	
		For 2-1/8" Mesh Fabric, Deduct	-618.07	
		For Gate With Single Barb Wire Arm, Add	781.47	
		For Gate With Double Barb Wire Arm, Add	1,136.69	
		For Aluminized Steel Gate And Post, Add	3,410.07	
		For Powder Coated Gate And Post, Add	1,491.91	
		For Vinyl Coated, Add	2,131.29	
32 31 13 13-0628	EA	8' High x 25' Wide Galvanized Cantilever Sliding Gate.....	13,545.35	1,944.81
		For 1" Mesh Fabric, Add	4,200.24	
		For 1-1/4" Mesh Fabric, Add	2,703.60	
		For 1-3/4" Mesh Fabric, Add	1,680.10	
		For 2-1/8" Mesh Fabric, Deduct	-840.05	
		For Gate With Single Barb Wire Arm, Add	1,062.13	
		For Gate With Double Barb Wire Arm, Add	1,544.92	
		For Aluminized Steel Gate And Post, Add	4,634.75	
		For Powder Coated Gate And Post, Add	2,027.70	
		For Vinyl Coated, Add	2,896.72	
32 31 13 13-0629	EA	8' High x 30' Wide Galvanized Cantilever Sliding Gate.....	15,231.10	2,288.02
		For 1" Mesh Fabric, Add	4,634.96	
		For 1-1/4" Mesh Fabric, Add	2,983.42	
		For 1-3/4" Mesh Fabric, Add	1,853.98	
		For 2-1/8" Mesh Fabric, Deduct	-926.99	
		For Gate With Single Barb Wire Arm, Add	1,172.06	
		For Gate With Double Barb Wire Arm, Add	1,704.81	
		For Aluminized Steel Gate And Post, Add	5,114.43	
		For Powder Coated Gate And Post, Add	2,237.56	
		For Vinyl Coated, Add	3,196.52	
32 31 13 13-0630		Gate Accessories (32 31 13 13-0263)		
32 31 13 13-0631	EA	Gate Center Stop, Cast Steel, Ground	46.94	
32 31 13 13-0632	EA	Gate Latch, Malleable Galvanized Steel	51.49	
32 31 13 13-0633	EA	Gate Keeper, Full Length, Galvanized Steel.....	238.69	
32 31 13 13-0634	EA	Gate Keeper Hold-Open For Cantilever Gate	103.06	18.65
32 31 13 13-0635	EA	Heavy Duty Gate Latch, Malleable Galvanized Steel	57.82	
32 31 13 13-0636	EA	Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For 3' To 5' High Gate.....	825.42	
32 31 13 13-0637	EA	Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For >5' To 8' High Gate	885.72	
32 31 13 13-0638	EA	Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For >8' To 12' High Gate	946.02	
32 31 13 13-0639	LF	Aluminum V-Groove Gate Track.....	59.13	10.43
32 31 13 13-0640	LF	Galvanized Steel V-Groove Gate Track.....	44.39	10.43
32 31 13 13-0641		Vertical-Pivot Lift Gate (32 31 13 13-0263)		
		Note: Includes 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes operator. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. Width listed on tasks is opening width of gate.		
32 31 13 13-0642	EA	5' High x 12' Wide Galvanized Vertical-Pivot Lift Gate.....	21,679.04	858.01
		For Curb Notch, Add	239.00	
		For Prewired Loop Kit, Add	245.00	
32 31 13 13-0643	EA	5' High x 14' Wide Galvanized Vertical-Pivot Lift Gate.....	22,022.24	1,029.61
		For Curb Notch, Add	239.00	
		For Prewired Loop Kit, Add	245.00	
32 31 13 13-0644	EA	5' High x 16' Wide Galvanized Vertical-Pivot Lift Gate.....	22,365.43	1,201.21
		For Curb Notch, Add	239.00	
		For Prewired Loop Kit, Add	245.00	
		For Wind Bracing, Add	287.50	
32 31 13 13-0645	EA	5' High x 18' Wide Galvanized Vertical-Pivot Lift Gate.....	22,958.95	1,372.81
		For Curb Notch, Add	239.00	
		For Prewired Loop Kit, Add	245.00	
		For Wind Bracing, Add	317.50	
32 31 13 13-0646	EA	5' High x 20' Wide Galvanized Vertical-Pivot Lift Gate.....	23,539.96	1,544.41
		For Curb Notch, Add	239.00	
		For Prewired Loop Kit, Add	245.00	
		For Wind Bracing, Add	317.50	
32 31 13 13-0647	EA	6' High x 12' Wide Galvanized Vertical-Pivot Lift Gate.....	22,681.95	1,115.41
		For Curb Notch, Add	239.00	
		For Prewired Loop Kit, Add	245.00	



Exterior Improvements		32	32
Site Improvements		32 30	
Fences and Gates		32 31	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0648	EA	6' High x 14' Wide Galvanized Vertical-Pivot Lift Gate.....	23,025.15	1,287.01
		For Curb Notch, Add	239.00	
		For Prewired Loop Kit, Add	245.00	
32 31 13 13-0649	EA	6' High x 16' Wide Galvanized Vertical-Pivot Lift Gate.....	23,368.36	1,458.61
		For Curb Notch, Add	239.00	
		For Prewired Loop Kit, Add	245.00	
		For Wind Bracing, Add	287.50	
32 31 13 13-0650	EA	6' High x 18' Wide Galvanized Vertical-Pivot Lift Gate.....	23,849.24	1,630.21
		For Curb Notch, Add	239.00	
		For Prewired Loop Kit, Add	245.00	
		For Wind Bracing, Add	317.50	
32 31 13 13-0651	EA	6' High x 20' Wide Galvanized Vertical-Pivot Lift Gate.....	24,542.89	1,801.82
		For Curb Notch, Add	239.00	
		For Prewired Loop Kit, Add	245.00	
		For Wind Bracing, Add	317.50	
32 31 13 13-0652		Accessories (32 31 13 13)		
32 31 13 13-0653		Barbed And Concertina Wire (32 31 13 13-0652)		
32 31 13 13-0654		Single Strand Barbed Wire (32 31 13 13-0653)		
32 31 13 13-0655	LF	Galvanized Barbed Wire, Per Strand.....	1.06	0.49
		Note: Includes clips. 4 points 12-1/2 Gauge, Class I.		
		For >500 To 2,000, Deduct	-0.10	
		For >2,000, Deduct	-0.15	
32 31 13 13-0656	LF	Vinyl Coated Barbed Wire (Fused), Per Strand.....	1.20	0.49
		Note: Includes clips.		
		For >500 To 2,000, Deduct	-0.11	
		For >2,000, Deduct	-0.16	
32 31 13 13-0657	EA	Barbed Wire Extension Arms 3 Strands (Single Arm).....	11.61	7.85
32 31 13 13-0658	EA	Barbed Wire Extension Arms 6 Strands (Double Arm).....	18.67	9.42
32 31 13 13-0659	EA	Barbed Wire Eye Tops (For Single Strand).....	11.99	7.85
32 31 13 13-0660		Galvanized Steel Concertina (Razor) Wire, Single Coil (32 31 13 13-0653)		
32 31 13 13-0661	LF	18" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	3.97	0.69
		For >500 To 1,500, Deduct	-0.35	
		For >1,500 To 5,000, Deduct	-0.69	
		For >5,000, Deduct	-0.99	
		For Ground Installation, Deduct	-0.49	
		For Double Coil (Helix), Add	2.99	
32 31 13 13-0662	LF	18" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	5.99	0.69
		For >500 To 1,500, Deduct	-0.52	
		For >1,500 To 5,000, Deduct	-1.05	
		For >5,000, Deduct	-1.49	
		For Ground Installation, Deduct	-0.74	
		For Double Coil (Helix), Add	4.52	
32 31 13 13-0663	LF	18" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence.....	7.95	0.69
		For >500 To 1,500, Deduct	-0.69	
		For >1,500 To 5,000, Deduct	-1.39	
		For >5,000, Deduct	-1.98	
		For Ground Installation, Deduct	-0.98	
		For Double Coil (Helix), Add	5.99	
32 31 13 13-0664	LF	24" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	6.46	0.69
		For >500 To 1,500, Deduct	-0.54	
		For >1,500 To 5,000, Deduct	-1.08	
		For >5,000, Deduct	-1.51	
		For Ground Installation, Deduct	-0.55	
		For Double Coil (Helix), Add	5.37	
32 31 13 13-0665	LF	24" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	9.77	0.69
		For >500 To 1,500, Deduct	-0.81	
		For >1,500 To 5,000, Deduct	-1.63	
		For >5,000, Deduct	-2.28	
		For Ground Installation, Deduct	-0.82	
		For Double Coil (Helix), Add	8.13	
32 31 13 13-0666	LF	24" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence.....	12.90	0.69
		For >500 To 1,500, Deduct	-1.08	
		For >1,500 To 5,000, Deduct	-2.15	
		For >5,000, Deduct	-3.01	
		For Ground Installation, Deduct	-1.08	
		For Double Coil (Helix), Add	10.74	
32 31 13 13-0667	LF	30" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	19.26	0.69
		For >500 To 1,500, Deduct	-1.51	
		For >1,500 To 5,000, Deduct	-3.01	
		For >5,000, Deduct	-4.10	
		For Ground Installation, Deduct	-0.61	
		For Double Coil (Helix), Add	18.04	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0668	LF		30" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	29.15	0.69
			For >500 To 1,500, Deduct	-2.28	
			For >1,500 To 5,000, Deduct	-4.56	
			For >5,000, Deduct	-6.20	
			For Ground Installation, Deduct	-0.92	
			For Double Coil (Helix), Add	27.31	
32 31 13 13-0669	LF		30" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence	38.52	0.69
			For >500 To 1,500, Deduct	-3.01	
			For >1,500 To 5,000, Deduct	-6.02	
			For >5,000, Deduct	-8.19	
			For Ground Installation, Deduct	-1.23	
			For Double Coil (Helix), Add	36.07	
32 31 13 13-0670 Stainless Steel Concertina (Razor) Wire, Single Coil (32 31 13 13-0653)					
32 31 13 13-0671	LF		18" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence	6.86	0.69
			For >500 To 1,500, Deduct	-0.56	
			For >1,500 To 5,000, Deduct	-1.13	
			For >5,000, Deduct	-1.57	
			For Ground Installation, Deduct	-0.49	
			For Double Coil (Helix), Add	5.88	
32 31 13 13-0672	LF		18" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence	10.36	0.69
			For >500 To 1,500, Deduct	-0.85	
			For >1,500 To 5,000, Deduct	-1.70	
			For >5,000, Deduct	-2.37	
			For Ground Installation, Deduct	-0.74	
			For Double Coil (Helix), Add	8.89	
32 31 13 13-0673	LF		18" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence.....	13.72	0.69
			For >500 To 1,500, Deduct	-1.13	
			For >1,500 To 5,000, Deduct	-2.25	
			For >5,000, Deduct	-3.14	
			For Ground Installation, Deduct	-0.98	
			For Double Coil (Helix), Add	11.76	
32 31 13 13-0674	LF		24" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence	8.91	0.69
			For >500 To 1,500, Deduct	-0.72	
			For >1,500 To 5,000, Deduct	-1.45	
			For >5,000, Deduct	-2.00	
			For Ground Installation, Deduct	-0.55	
			For Double Coil (Helix), Add	7.82	
32 31 13 13-0675	LF		24" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence	13.48	0.69
			For >500 To 1,500, Deduct	-1.09	
			For >1,500 To 5,000, Deduct	-2.19	
			For >5,000, Deduct	-3.02	
			For Ground Installation, Deduct	-0.82	
			For Double Coil (Helix), Add	11.84	
32 31 13 13-0676	LF		24" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence.....	17.80	0.69
			For >500 To 1,500, Deduct	-1.44	
			For >1,500 To 5,000, Deduct	-2.89	
			For >5,000, Deduct	-3.99	
			For Ground Installation, Deduct	-1.08	
			For Double Coil (Helix), Add	15.64	
32 31 13 13-0677	LF		30" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence	28.53	0.69
			For >500 To 1,500, Deduct	-2.20	
			For >1,500 To 5,000, Deduct	-4.40	
			For >5,000, Deduct	-5.95	
			For Ground Installation, Deduct	-0.61	
			For Double Coil (Helix), Add	27.31	
32 31 13 13-0678	LF		30" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence	43.19	0.69
			For >500 To 1,500, Deduct	-3.33	
			For >1,500 To 5,000, Deduct	-6.66	
			For >5,000, Deduct	-9.01	
			For Ground Installation, Deduct	-0.92	
			For Double Coil (Helix), Add	41.35	
32 31 13 13-0679	LF		30" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence.....	57.06	0.69
			For >500 To 1,500, Deduct	-4.40	
			For >1,500 To 5,000, Deduct	-8.80	
			For >5,000, Deduct	-11.90	
			For Ground Installation, Deduct	-1.23	
			For Double Coil (Helix), Add	54.61	
32 31 13 13-0680 Grounding For Gates (32 31 13 13-0652)					
Note: Includes two of each of the following per opening: 5/8 ground rods, clamps, braided straps and #6 bare copper wire.					
32 31 13 13-0681	OPNG		Grounding For Gates (Per Opening).....	446.11	



Exterior Improvements		32
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0682		Coiled Spring Reinforcing Wire (32 31 13 13-0652)		
32 31 13 13-0683		Galvanized Steel (32 31 13 13-0682)		
32 31 13 13-0684	LF	7 Gauge, Galvanized Steel, Reinforcing Wire Coiled Spring.....	1.17	0.49
32 31 13 13-0685		Vinyl Coated Steel (32 31 13 13-0682)		
32 31 13 13-0686	LF	9 Gauge, Vinyl Coated Steel, Reinforcing Wire Coiled Spring.....	1.17	0.49
32 31 13 13-0687		Bending Of Fabric Around Pipe Railings (32 31 13 13-0652)		
		Note: Only where specified.		
32 31 13 13-0688	LF	Bend Chain Link Fence Fabric Around Pipe Railing, Top.....	1.54	
32 31 13 13-0689	LF	Bend Chain Link Fence Fabric Around Pipe Railing, Bottom.....	1.34	
32 31 13 13-0690		Mounting Plate With Anchors Or Bolts (32 31 13 13-0652)		
		Note: For drilling for anchor or bolts, installing post on or against flat surface.		
32 31 13 13-0691	EA	Mounting Plate For 1-5/8" Diameter Post.....	44.66	
32 31 13 13-0692	EA	Mounting Plate For 2" Diameter Post.....	45.41	
32 31 13 13-0693	EA	Mounting Plate For 2-1/2" Diameter Post.....	46.68	
32 31 13 13-0694	EA	Mounting Plate For 3" Diameter Post.....	56.36	
32 31 13 13-0695	EA	Mounting Plate For 4" Diameter Post.....	64.88	
32 31 13 13-0696	EA	Mounting Plate For 6-5/8" Diameter Post.....	75.28	
32 31 13 13-0697	EA	Mounting Plate For 8-5/8" Diameter Post.....	88.85	
32 31 13 13-0698		Tension Bar (32 31 13 13-0652)		
32 31 13 13-0699	EA	3' Long x 5/8" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	15.73	
32 31 13 13-0700	EA	3-1/2' Long x 5/8" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	16.73	
32 31 13 13-0701	EA	4' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	20.64	
32 31 13 13-0702	EA	5' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	23.93	
32 31 13 13-0703	EA	6' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	28.27	
32 31 13 13-0704	EA	7' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	32.82	
32 31 13 13-0705	EA	8' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	37.10	
32 31 13 13-0706	EA	9' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	44.54	
32 31 13 13-0707	EA	10' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar.....	53.30	
32 31 13 13-0708		Truss Rods (32 31 13 13-0652)		
32 31 13 13-0709	LF	3/8" Diameter Truss Rods.....	2.13	0.54
32 31 13 13-0710		Fence And Gate Repair And Replacement (32 31 13 13)		
32 31 13 13-0711		Fence And Gate Parts Replacement (32 31 13 13-0710)		
32 31 13 13-0712	EA	Cantilever Roller Assembly, Ball Bearing With Fittings, Replacement.....	124.81	
32 31 13 13-0713	EA	Sliding Gate Roller Assembly Replacement.....	122.12	
32 31 13 13-0714	EA	Rod And Lock Gate Keeper Replacement.....	124.39	
32 31 13 13-0715	EA	Galvanized Gate Holdback Replacement.....	27.17	
32 31 13 13-0716	LF	3/8" Cross Bracing Rod Replacement.....	1.59	
32 31 13 13-0717	LF	1-5/8" Diagonal Pipe Bracing Replacement.....	2.48	
32 31 13 13-0718	EA	2-3/8" To 2-1/2" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement.....	27.02	
32 31 13 13-0719	EA	2-7/8" To 3" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement.....	30.82	
32 31 13 13-0720	EA	3-1/2" To 4" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement.....	34.75	
32 31 13 13-0721	EA	6-1/2" To 6-5/8" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement.....	51.72	
32 31 13 13-0722	EA	8-5/8" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement.....	129.69	
32 31 13 13-0723	EA	2-1/2" x 2" Off Set Gate Hinge Replacement.....	25.61	
32 31 13 13-0724	EA	3" x 2" Off Set Gate Hinge Replacement.....	26.71	
32 31 13 13-0725	EA	4" x 2" Off Set Gate Hinge Replacement.....	28.50	
32 31 13 13-0726	EA	6-5/8" x 2" Off Set Gate Hinge Replacement.....	46.78	
32 31 13 13-0727	EA	8-5/8" x 2" Off Set Gate Hinge Replacement.....	73.88	
32 31 13 13-0728	EA	1-5/8" Aluminum Die-Cast Post Cap Replacement.....	5.66	
32 31 13 13-0729	EA	2" Aluminum Die-Cast Post Cap Replacement.....	6.22	
32 31 13 13-0730	EA	2-1/2" Aluminum Die-Cast Post Cap Replacement.....	7.27	
32 31 13 13-0731	EA	3" Aluminum Die-Cast Post Cap Replacement.....	8.51	
32 31 13 13-0732	EA	2" Galvanized Post Cap Replacement.....	6.29	
32 31 13 13-0733	EA	2-1/2" Galvanized Post Cap Replacement.....	6.80	
32 31 13 13-0734	EA	3" Galvanized Post Cap Replacement.....	7.81	
32 31 13 13-0735	EA	4" Galvanized Post Cap Replacement.....	11.65	
32 31 13 13-0736	EA	6-5/8" Galvanized Post Cap Replacement.....	22.08	
32 31 13 13-0737	EA	8-5/8" Galvanized Post Cap Replacement.....	36.33	
32 31 13 13-0738	EA	1-5/8" Boulevard Clamp Replacement.....	10.46	
32 31 13 13-0739	EA	2" Boulevard Clamp Replacement.....	12.75	
32 31 13 13-0740	EA	2-1/2" Boulevard Clamp Replacement.....	14.97	
32 31 13 13-0741	EA	3" Boulevard Clamp Replacement.....	18.15	
32 31 13 13-0742	EA	1-5/8" Gate Brace Or End Rail Clamp Replacement.....	10.25	
32 31 13 13-0743	EA	2" Gate Brace Or End Rail Clamp Replacement.....	12.46	
32 31 13 13-0744	EA	2-1/2" Gate Brace Or End Rail Clamp Replacement.....	14.67	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0745	EA	3" Gate Brace Or End Rail Clamp Replacement.....	17.84	
32 31 13 13-0746	EA	1-3/8" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	10.74	
32 31 13 13-0747	EA	1-5/8" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	10.83	
32 31 13 13-0748	EA	2" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	11.08	
32 31 13 13-0749	EA	2-1/2" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	10.97	
32 31 13 13-0750	EA	3" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	11.15	
32 31 13 13-0751	EA	3-1/2" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	11.31	
32 31 13 13-0752	EA	4" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	11.76	
32 31 13 13-0753	EA	6-5/8" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	15.03	
32 31 13 13-0754		Removal And Reinstallation Of Chain Link Fences (32 31 13 13) Note: Includes removal, storage, cleaning and reinstallation of fence fabric, rails and other components. Excludes post work.		
32 31 13 13-0755	LF	Removal And Reinstallation Of Chain Link Fence Up To 5' Height.....	19.63	
32 31 13 13-0756	LF	Removal And Reinstallation Of Chain Link Fence 6' To 12' Height	29.44	
32 31 16		Welded Wire Fences and Gates (32 31)		
32 31 16 00-0001		Welded Wire Fence (32 31 16)		
32 31 16 00-0002		12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh (32 31 16 00-0001) Note: Posts 5' on center.		
32 31 16 00-0003	LF	3' High, 12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh, Posts At 5'.....	9.58	1.73
32 31 16 00-0004	LF	5' High, 12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh, Posts At 5'.....	10.34	1.73
32 31 16 00-0005		14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh (32 31 16 00-0001) Note: Posts 5' on center.		
32 31 16 00-0006	LF	3' High, 14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh, Posts At 5'.....	9.42	1.73
32 31 16 00-0007	LF	5' High, 14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh, Posts At 5'.....	10.10	1.73
32 31 26		Wire Fences and Gates (32 31)		
32 31 26 13		Wire Fences with Steel Posts (32 31 26)		
32 31 26 13-0001		Chicken Wire (32 31 26 13) Note: Posts at 4'.		
32 31 26 13-0002	LF	4' High, 1" Mesh, Chicken Wire Fence, Metal Posts At 4'.....	8.23	1.73
32 31 26 13-0003	LF	6' High, 2" Mesh, Chicken Wire Fence, Metal Posts At 4'.....	8.96	1.73
32 31 26 13-0004		Wire And Screen (32 31 26 13)		
32 31 26 13-0005		Wire And Screen For Partitions And Fences (32 31 26 13-0004) Note: Excludes framing and post.		
32 31 26 13-0006		Screen Wire (32 31 26 13-0005)		
32 31 26 13-0007	LF	Screen Wire, 48" Wide Rolls.....	14.10	1.22
32 31 26 13-0008		Hog Wire (32 31 26 13-0005)		
32 31 26 13-0009	SF	4" x 4" Hog Wire For Fencing	2.49	0.97
32 31 26 13-0010	SF	6" x 6" Hog Wire For Fencing	2.60	1.10
32 31 26 13-0011		Non-Climb Horse Fence (32 31 26 13-0005)		
32 31 26 13-0012	LF	4' Non-Climb Woven, 12.5 Gauge, Horse Fence	11.18	3.89
32 31 26 13-0013	LF	5' Non-Climb Woven, 12.5 Gauge, Horse Fence	14.34	4.86
32 31 26 13-0014	LF	6' Non-Climb Woven, 12.5 Gauge, Horse Fence	17.98	5.84
32 31 26 13-0015		Screen For Partitions And Ceilings (32 31 26 13-0004) Note: Can be used to support insulation on walls and ceilings.		
32 31 26 13-0016	SF	1" Mesh Chicken Wire	2.36	0.69
32 31 26 13-0017		Wicket Fence (32 31 26 13)		
32 31 26 13-0018	LF	Steel Wicket Fence, Painted.....	81.30	5.25
32 31 29		Wood Fences and Gates (32 31) See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 29 00-0001		Basket Weave (32 31 29) Note: 3/8" x 4" boards, 4" x 4" post		
32 31 29 00-0002	LF	6' High #1 Cedar Basket Weave Fence 3/8" x 4" Boards, 4" x 4" Post	39.41	3.26
32 31 29 00-0003	LF	For Fastening With Screws Instead Of Nails, Add	2.31	
		6' High, Pressure Treated Pine Basket Weave 3/8" x 4" Boards, 4" x 4" Post.....	26.04	3.26
		For Fastening With Screws Instead Of Nails, Add	1.67	



Exterior Improvements			32
Site Improvements			32 30
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 29 00-0004		Board Fence (32 31 29) Note: 1x4" board, 2x4" rail, 4x4" post.		
32 31 29 00-0005	LF	Two 2" x 4" Rails, 3' High 1" x 4" Boards, Preservative Treated Board Fence	25.47	3.26
		For 1" x 6" Boards, Deduct	-2.67	
		For 1" x 3" Boards (Stockade Top), Add	3.32	
		For Fastening With Screws Instead Of Nails, Add	1.65	
32 31 29 00-0006	LF	Two 2" x 4" Rails, 4' High 1" x 4" Boards, Preservative Treated Board Fence	28.34	3.26
		For 1" x 6" Boards, Deduct	-2.91	
		For 1" x 3" Boards (Stockade Top), Add	3.60	
		For Fastening With Screws Instead Of Nails, Add	1.82	
32 31 29 00-0007	LF	Three 2" x 4" Rails, 5' High 1" x 4" Boards, Preservative Treated Board Fence	31.66	3.26
		For 1" x 6" Boards, Deduct	-3.11	
		For 1" x 3" Boards (Stockade Top), Add	3.80	
		For Fastening With Screws Instead Of Nails, Add	2.00	
32 31 29 00-0008	LF	Three 2" x 4" Rails, 6' High 1" x 4" Boards, Preservative Treated Board Fence	33.81	3.26
		For 1" x 6" Boards, Deduct	-3.27	
		For 1" x 3" Boards (Stockade Top), Add	3.98	
		For Fastening With Screws Instead Of Nails, Add	2.13	
32 31 29 00-0009	LF	Three 2" x 4" Rails, 8' High 1" x 4" Boards, Preservative Treated Board Fence	36.14	3.26
		For 1" x 6" Boards, Deduct	-3.44	
		For 1" x 3" Boards (Stockade Top), Add	4.16	
		For Fastening With Screws Instead Of Nails, Add	2.26	
32 31 29 00-0010	LF	Two 2" x 4" Rails, 3' High 1" x 4" #2 Grade Western Cedar Board Fence	27.23	3.26
		For 1" x 6" Boards, Deduct	-2.74	
		For 1" x 3" Boards (Stockade Top), Add	3.37	
		For Fastening With Screws Instead Of Nails, Add	1.74	
32 31 29 00-0011	LF	Two 2" x 4" Rails, 4' High 1" x 4" #2 Grade Western Cedar Board Fence	29.70	3.26
		For 1" x 6" Boards, Deduct	-2.96	
		For 1" x 3" Boards (Stockade Top), Add	3.64	
		For Fastening With Screws Instead Of Nails, Add	1.89	
32 31 29 00-0012	LF	Three 2" x 4" Rails, 5' High 1" x 4" #2 Grade Western Cedar Board Fence	31.66	3.26
		For 1" x 6" Boards, Deduct	-3.11	
		For 1" x 3" Boards (Stockade Top), Add	3.80	
		For Fastening With Screws Instead Of Nails, Add	2.00	
32 31 29 00-0013	LF	Three 2" x 4" Rails, 6' High 1" x 4" #2 Grade Western Cedar Board Fence	33.81	3.26
		For 1" x 6" Boards, Deduct	-3.27	
		For 1" x 3" Boards (Stockade Top), Add	3.98	
		For Fastening With Screws Instead Of Nails, Add	2.13	
32 31 29 00-0014	LF	Three 2" x 4" Rails, 8' High 1" x 4" #2 Grade Western Cedar Board Fence	36.14	3.26
		For 1" x 6" Boards, Deduct	-3.44	
		For 1" x 3" Boards (Stockade Top), Add	4.16	
		For Fastening With Screws Instead Of Nails, Add	2.26	
32 31 29 00-0015	LF	Two 2" x 4" Rails, 3' High 1" x 4" #1 Grade Cedar Board Fence	27.23	3.26
		For 1" x 6" Boards, Deduct	-2.74	
		For 1" x 3" Boards (Stockade Top), Add	3.37	
		For Fastening With Screws Instead Of Nails, Add	1.74	
32 31 29 00-0016	LF	Two 2" x 4" Rails, 4' High 1" x 4" #1 Grade Cedar Board Fence	35.70	3.26
		For 1" x 6" Boards, Deduct	-3.20	
		For 1" x 3" Boards (Stockade Top), Add	3.82	
		For Fastening With Screws Instead Of Nails, Add	2.19	
32 31 29 00-0017	LF	Three 2" x 4" Rails, 5' High 1" x 4" #1 Grade Cedar Board Fence	37.42	3.26
		For 1" x 6" Boards, Deduct	-3.34	
		For 1" x 3" Boards (Stockade Top), Add	3.98	
		For Fastening With Screws Instead Of Nails, Add	2.29	
32 31 29 00-0018	LF	Three 2" x 4" Rails, 6' High 1" x 4" #1 Grade Cedar Board Fence	40.25	3.26
		For 1" x 6" Boards, Deduct	-3.53	
		For 1" x 3" Boards (Stockade Top), Add	4.17	
		For Fastening With Screws Instead Of Nails, Add	2.45	
32 31 29 00-0019	LF	Three 2" x 4" Rails, 8' High 1" x 4" #1 Grade Cedar Board Fence	43.32	3.26
		For 1" x 6" Boards, Deduct	-3.73	
		For 1" x 3" Boards (Stockade Top), Add	4.38	
		For Fastening With Screws Instead Of Nails, Add	2.62	
32 31 29 00-0020		Shadow Box (32 31 29) Note: 1x6" board, 2x4" Rail, 4x4" post.		
32 31 29 00-0021	LF	Shadow Box, 3 - 2" x 4" Rails, 6' High 1" x 6" Pressure Treated Pine	54.70	3.26
		For Fastening With Screws Instead Of Nails, Add	3.08	
32 31 29 00-0022	LF	Shadow Box, 3 - 2" x 4" Rails, 4' High 1" x 4" #1 Cedar	68.73	3.26
		For Fastening With Screws Instead Of Nails, Add	3.84	
32 31 29 00-0023	LF	Shadow Box, 3 - 2" x 4" Rails, 6' High 1" x 4" #1 Cedar	74.89	3.26
		For Fastening With Screws Instead Of Nails, Add	4.16	
32 31 29 00-0024	LF	Shadow Box, 3 - 2" x 4" Rails, 8' High 1" x 4" #1 Cedar	80.47	3.26
		For Fastening With Screws Instead Of Nails, Add	4.47	
32 31 29 00-0025		Open Rail Fence (32 31 29)		
32 31 29 00-0026		Post And Rail Fence, Ranch Style (32 31 29 00-0025)		
32 31 29 00-0027	LF	Post And Rail Fence, 2 Rails, 3' High #1 Cedar	25.50	3.26
32 31 29 00-0028	LF	Post And Rail Fence, 2 Rails, 3' High #2 Cedar	19.91	3.26
32 31 29 00-0029	LF	Post And Rail Fence, 3 Rails, 4' High #1 Cedar	30.21	3.26
32 31 29 00-0030	LF	Post And Rail Fence, 3 Rails, 4' High #2 Cedar	21.51	3.26

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 29 00-0031 Split Rail Fence (32 31 29 00-0025)		
32 31 29 00-0032 LF Split Rail Fence, 2 Rails, 3' High #1 Cedar	24.06	3.26
32 31 29 00-0033 LF Split Rail Fence, 2 Rails, 3' High #2 Cedar	19.85	3.26
32 31 29 00-0034 LF Split Rail Fence, 3 Rail, 4' High #1 Cedar	27.47	3.26
32 31 29 00-0035 LF Split Rail Fence, 3 Rail, 4' High #2 Cedar	22.32	3.26
32 31 29 00-0036 Picket Fence (32 31 29)		
32 31 29 00-0037 LF Picket Fence, 2 Rail, 3' High, Pressure Treated	26.75	3.26
For Fastening With Screws Instead Of Nails, Add	1.73	
32 31 29 00-0038 LF Picket Fence, 2 Rail, 3' High #1 Cedar	25.16	3.26
For Fastening With Screws Instead Of Nails, Add	1.65	
32 31 29 00-0039 Wood Fence Post Accessories (32 31 29)		
32 31 29 00-0040 EA 3-1/2" x 3-1/2" Copper, Pyramid Slip Over, Wood Fence Post Cap	43.97	
32 31 29 00-0041 EA 4" x 4" Copper, Pyramid Slip Over, Wood Fence Post Cap	49.37	
32 31 29 00-0042 EA 6" x 6" Copper, Pyramid Slip Over, Wood Fence Post Cap	53.75	
32 31 29 00-0043 EA 8" x 8" Copper, Pyramid Slip Over, Wood Fence Post Cap	79.73	
32 31 29 00-0044 Wood Gate (32 31 29)		
32 31 29 00-0045 Board Fence Gates, Pressure Treated Wood (32 31 29 00-0044)		
Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (treated lumber).		
32 31 29 00-0046 EA 3' To 5' High x 3' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	423.83	135.71
32 31 29 00-0047 EA 3' To 5' High x 3'-6" Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	467.55	143.85
32 31 29 00-0048 EA 3' To 5' High x 4' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	522.12	157.41
32 31 29 00-0049 EA 3' To 5' High x 5' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	590.22	165.56
32 31 29 00-0050 EA 3' To 5' High x 6' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	658.34	173.70
32 31 29 00-0051 EA >5' To 8' High x 3' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	541.16	179.12
32 31 29 00-0052 EA >5' To 8' High x 3'-6" Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	587.93	187.27
32 31 29 00-0053 EA >5' To 8' High x 4' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	634.69	195.42
32 31 29 00-0054 EA >5' To 8' High x 5' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	711.95	203.56
32 31 29 00-0055 EA >5' To 8' High x 6' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	773.97	211.70
32 31 29 00-0056 Board Fence Gates, Grade 2 Cedar (32 31 29 00-0044)		
Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (cedar lumber)		
32 31 29 00-0057 EA 3' To 5' High x 3' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	615.60	102.04
32 31 29 00-0058 EA 3' To 5' High x 3'-6" Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	637.00	108.16
32 31 29 00-0059 EA 3' To 5' High x 4' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	669.60	118.36
32 31 29 00-0060 EA 3' To 5' High x 5' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	706.23	124.48
32 31 29 00-0061 EA 3' To 5' High x 6' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	752.00	130.61
32 31 29 00-0062 EA >5' To 8' High x 3' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	726.64	134.69
32 31 29 00-0063 EA >5' To 8' High x 3'-6" Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	754.12	140.81
32 31 29 00-0064 EA >5' To 8' High x 4' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	796.86	146.93
32 31 29 00-0065 EA >5' To 8' High x 5' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	839.58	153.05
32 31 29 00-0066 EA >5' To 8' High x 6' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	882.30	159.18
32 31 29 00-0067 Board Fence Gates, Grade 1 Cedar (32 31 29 00-0044)		
Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (cedar lumber)		
32 31 29 00-0068 EA 3' To 5' High x 3' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	661.33	102.04
32 31 29 00-0069 EA 3' To 5' High x 3'-6" Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	688.82	108.16
32 31 29 00-0070 EA 3' To 5' High x 4' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	724.47	118.36
32 31 29 00-0071 EA 3' To 5' High x 5' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	767.20	124.48
32 31 29 00-0072 EA 3' To 5' High x 6' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	809.92	130.61
32 31 29 00-0073 EA >5' To 8' High x 3' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	787.61	134.69
32 31 29 00-0074 EA >5' To 8' High x 3'-6" Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	815.09	140.81
32 31 29 00-0075 EA >5' To 8' High x 4' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	857.82	146.93
32 31 29 00-0076 EA >5' To 8' High x 5' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	900.55	153.05
32 31 29 00-0077 EA >5' To 8' High x 6' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware	958.51	159.18
32 31 29 00-0078 Pressure Treated Wood Fence Posts (32 31 29)		
See CSI section 32 31 13 13-0001 for drilling augering, 32 31 56 00-0017 for barbed wire.		
32 31 29 00-0079 EA 4' High, Pressure Treated Wood Fence Posts, Set In Soil, Earth Fill	40.46	13.57
32 31 29 00-0080 EA 6' High, Pressure Treated Wood Fence Posts, Set In Soil, Earth Fill	45.28	13.57
32 31 29 00-0081 EA 4' High, Pressure Treated Wood Fence Posts, Set In Concrete	71.62	26.06
32 31 29 00-0082 EA 6' High, Pressure Treated Wood Fence Posts, Set In Concrete	77.11	26.06
32 31 29 00-0083 Wood Utility Pole Fence (32 31 29)		
Note: Excludes post holes. See CSI section 32 31 13 13-0001 for drilling augering and backfill.		
32 31 29 00-0084 LF Wood Utility Pole Barrier Fence	50.07	3.26
Note: Includes notching post, drilling and pinned with #5 rebar.		



Exterior Improvements			32
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 29 00-0085			Wood Rail Fence (32 31 29) Note: 3" diameter treated lodgepole pine rails, 6" diameter treated lodgepole pine post. Posts at 8' centers. Excludes post holes and fill		
32 31 29 00-0086	LF		4' Above Ground Wood Rail Fence, 3 - 3" Diameter Treated Lodgepole Pine Rails, 6" Diameter, 6' Overall Treated Lodgepole Pine Post	25.96	3.26
32 31 34			Tubular Barrier Gates (32 31)		
32 31 34 00-0001			Tube Gate (32 31 34) See CSI section 32 31 13 13-0001 for augering post holes and concrete fill, 32 31 13 13-0630 for gate accessories.		
32 31 34 00-0002			50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate (32 31 34 00-0001) Note: Round top edges. Includes lag bolt hinges, lock plate and hardware. Excludes augering, concrete, bollard and chain.		
32 31 34 00-0003	EA		4' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate	198.01	26.50
			For 13 Gauge Tubing, Add	31.75	
			For Galvanized Finish, Add	17.92	
32 31 34 00-0004	EA		6' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate	257.40	34.36
			For 13 Gauge Tubing, Add	41.17	
			For Galvanized Finish, Add	23.15	
32 31 34 00-0005	EA		8' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate	347.08	44.17
			For 13 Gauge Tubing, Add	56.17	
			For Galvanized Finish, Add	32.19	
32 31 34 00-0006	EA		10' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate	400.78	54.97
			For 13 Gauge Tubing, Add	63.47	
			For Galvanized Finish, Add	35.09	
32 31 34 00-0007	EA		12' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate	475.41	65.37
			For 13 Gauge Tubing, Add	75.45	
			For Galvanized Finish, Add	41.87	
32 31 34 00-0008	EA		14' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate	519.30	73.61
			For 13 Gauge Tubing, Add	81.78	
			For Galvanized Finish, Add	44.77	
32 31 34 00-0009	EA		16' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate	609.58	84.90
			For 13 Gauge Tubing, Add	96.40	
			For Galvanized Finish, Add	53.16	
32 31 34 00-0010			33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate (32 31 34 00-0001) Note: Round top edges. Includes lag bolt hinges, lock plate and hardware. Excludes augering and concrete.		
32 31 34 00-0011	EA		4' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	257.89	26.50
			For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	71.75	
32 31 34 00-0012	EA		6' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	308.92	34.36
			For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	82.34	
32 31 34 00-0013	EA		8' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	369.50	44.17
			For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	94.80	
32 31 34 00-0014	EA		10' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	426.31	54.97
			For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	103.78	
32 31 34 00-0015	EA		12' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	483.77	65.37
			For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	114.98	
32 31 34 00-0016	EA		14' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	536.04	73.61
			For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	126.08	
32 31 34 00-0017	EA		16' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	599.09	84.90
			For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	137.56	
32 31 34 00-0018	EA		18' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	688.21	95.55
			For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	159.47	
32 31 34 00-0019	EA		20' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	765.69	106.89
			For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	188.49	
32 31 34 00-0020			33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate (32 31 34 00-0001) Note: Round top edges. Includes lag bolt hinges, lock plate and hardware. Excludes augering and concrete.		
32 31 34 00-0021	EA		4' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	278.91	26.50
			For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	80.16	
32 31 34 00-0022	EA		6' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	329.58	34.36
			For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	90.61	
32 31 34 00-0023	EA		8' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	383.51	44.17
			For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	100.40	
32 31 34 00-0024	EA		10' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	446.74	54.97
			For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	111.96	
32 31 34 00-0025	EA		12' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	498.54	65.37
			For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	120.89	
32 31 34 00-0026	EA		14' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	570.52	73.61
			For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	139.87	
32 31 34 00-0027	EA		16' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	636.53	84.90
			For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	152.54	
32 31 34 00-0028	EA		18' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate	745.34	95.55
			For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	182.32	

32 Exterior Improvements**32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 34 00-0029	EA	20' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate <i>For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add</i>	817.06 209.04	106.89
32 31 34 00-0030		Tubular Steel Barrier Gate (Triangular Shape) ^(32 31 34 00-0001) Note: Includes posts, caps, welded hinges and lock keeper. Excludes augering, concrete, and bollards.		
32 31 34 00-0031	EA	4' High x 10' Wide Opening Tubular Galvanized Steel Barrier Gate With 3" Diameter Post <i>For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add</i>	1,944.92 622.99	54.97
32 31 34 00-0032	EA	4' High x 12' Wide Opening Tubular Galvanized Steel Barrier Gate With 3" Diameter Post <i>For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add</i>	2,113.95 668.46	65.37
32 31 34 00-0033	EA	4' High x 14' Wide Opening Tubular Galvanized Steel Barrier Gate With 3" Diameter Post <i>For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add</i>	2,496.26 801.76	73.61
32 31 34 00-0034	EA	4' High x 10' Wide Opening Tubular Galvanized Steel Barrier Gate With 4" Diameter Post <i>For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add</i>	2,026.52 655.32	54.97
32 31 34 00-0035	EA	4' High x 12' Wide Opening Tubular Galvanized Steel Barrier Gate With 4" Diameter Post <i>For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add</i>	2,207.20 705.42	65.37
32 31 34 00-0036	EA	4' High x 14' Wide Opening Tubular Galvanized Steel Barrier Gate With 4" Diameter Post <i>For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add</i>	2,589.52 838.71	73.61
32 31 34 00-0037		Four Rail Tube Gate, 1-1/2" Diameter Welded Galvanized Steel Tubing ^(32 31 34 00-0001) Note: Excludes augering holes and concrete.		
32 31 34 00-0038	EA	4' Four Rail Metal Frame Tube Gate, 1-1/2" Diameter Welded Galvanized Steel With Posts <i>For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add</i>	450.61 38.91	26.50
32 31 34 00-0039		Tubular Horse Gate ^(32 31 34 00-0001) Note: Includes posts, caps and hardware. Treated with Natina (or Equal) galvanized surface stain "rustic brown finish". Excludes augering holes and concrete.		
32 31 34 00-0040	EA	5-1/2' Above Ground, 5' Wide Tubular Galvanized Steel Horse Gate With 3" Diameter Posts <i>For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add</i>	3,768.43 1,134.40	26.50
32 31 34 00-0041		Pipe Gate ^(32 31 34) Note: Excludes augering and concrete. See CSI section 32 31 13 13-0001 for augering post holes and concrete fill.		
32 31 34 00-0042	EA	20' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier).....	3,949.76	
32 31 34 00-0043	EA	25' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier).....	4,941.23	
32 31 34 00-0044	EA	30' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier).....	5,889.27	
32 31 41		Precast Concrete Fences ^(32 31)		
32 31 41 00-0001		Precast Post And Rail Fence, Ranch Style, With Integral Color Concrete. ^(32 31 41) Note: Includes post holes, fill, spreading of excess material on site. See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 41 00-0002	LF	Precast Post And Rail Fence With Integral Color Concrete, 2 Rails, 3' Above Ground With 2' Bury Note: Includes 12" diameter holes with concrete fill for line posts and 18" diameter holes with concrete fill at corners.	66.52	3.26
32 31 56		Wild Life Deterrent Fence ^(32 31)		
32 31 56 00-0001		Barbed Wire Fences ^(32 31 56) Note: Excludes post holes and fill See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 56 00-0002		Fence Posts ^(32 31 56 00-0001)		
32 31 56 00-0003		Fence Post Soil, Set In Concrete ^(32 31 56 00-0002)		
32 31 56 00-0004	EA	Barbed Wire Fence Post, Galvanized Set In Concrete In Soil <i>For Bracing On Corner Post, End Post And Pull Post, Add</i>	99.02 159.80	7.85
32 31 56 00-0005	EA	Barbed Wire Fence Post, Vinyl Coated Set In Concrete In Soil <i>For Bracing On Corner Post, End Post And Pull Post, Add</i>	133.51 217.40	7.85
32 31 56 00-0006		Post In Rock ^(32 31 56 00-0002)		
32 31 56 00-0007	EA	Barbed Wire Fence Post, Galvanized Grouted In Rock <i>For Bracing On Corner Post, End Post And Pull Post, Add</i>	97.29 157.21	7.85
32 31 56 00-0008	EA	Barbed Wire Fence Post, Vinyl Coated Grouted In Rock <i>For Bracing On Corner Post, End Post And Pull Post, Add</i>	131.78 214.80	7.85
32 31 56 00-0009		Studded Steel T-Posts, Enamel Paint Finish ^(32 31 56 00-0001) Note: Posts for barb wire, chain link or welded wire mesh.		
32 31 56 00-0010	EA	5' Studded Steel T-Post, Driven Into Earth	25.47	
32 31 56 00-0011	EA	5'-6" Studded Steel T-Post, Driven Into Earth	26.09	
32 31 56 00-0012	EA	6' Studded Steel T-Post, Driven Into Earth	27.30	
32 31 56 00-0013	EA	6'-6" Studded Steel T-Post, Driven Into Earth	28.51	
32 31 56 00-0014	EA	7' Studded Steel T-Post, Driven Into Earth	30.10	
32 31 56 00-0015	EA	8' Studded Steel T-Post, Driven Into Earth	33.95	
32 31 56 00-0016	EA	10' Studded Steel T-Post, Driven Into Earth	41.51	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 56 00-0017			Barbed Wire (32 31 56 00-0001) Note: Per strand.		
32 31 56 00-0018	LF		Galvanized Barbed Wire For Wild Life Deterrent Fencing, Per Strand	0.87	0.39
32 31 56 00-0019	LF		Vinyl Coated Barbed Wire, For Wild Life Deterrent Fencing, Per Strand	1.01	0.39
32 31 56 00-0020			Barbed Wire Fence, Farm Style, With Wood Posts (32 31 56 00-0001) Note: Based on post at 10' centers, two corner post and two pull post per 300 lf.		
32 31 56 00-0021	LF		4'-6" Height, Three (3) Strand Barbed Wire Fence With Wood Posts	11.60	2.55
			Note: Posts at 10' maximum.		
32 32 Retaining Walls (32 30)					
32 32 13			Cast-In-Place Concrete Retaining Wall (32 32)		
			Note: System includes all necessary forms (4 uses), 3000 PSI concrete with an 8" chute, all necessary reinforcing steel, and underdrain. Exposed concrete is patched and rubbed. Excludes initial site grading, subbase preparation or finish grading.		
32 32 13 00-0001			Concrete Retaining Walls (32 32 13) Note: System elements include all necessary forms (4 uses), 3000 PSI concrete with an 8" chute, all necessary reinforcing steel, and underdrain. Exposed concrete is patched and rubbed. Excludes initial site grading, subbase preparation or finish grading.		
32 32 13 00-0002	LF		4' High With Base, 10" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	396.64	131.33
			For >3:1 Sloped Soil At Top, Add	11.40	
32 32 13 00-0003	LF		6' High With Base, 10" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	496.40	161.59
			For >3:1 Sloped Soil At Top, Add	14.72	
32 32 13 00-0004	LF		8' High With Base, 10" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	542.08	174.30
			For >3:1 Sloped Soil At Top, Add	16.44	
32 32 13 00-0005	LF		10' High With Base, 13" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	695.57	215.51
			For >3:1 Sloped Soil At Top, Add	22.49	
32 32 13 00-0006	LF		12' High With Base, 14" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	802.19	247.55
			For >3:1 Sloped Soil At Top, Add	26.10	
32 32 13 00-0007	LF		16' High With Base, 16" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	1,156.72	363.17
			For >3:1 Sloped Soil At Top, Add	36.59	
32 32 13 00-0008	LF		20' High With Base, 18" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	1,585.68	501.38
			For >3:1 Sloped Soil At Top, Add	49.54	
32 32 13 00-0009	LF		4' High With Base, 12" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	436.52	143.41
			For >3:1 Sloped Soil At Top, Add	12.72	
32 32 13 00-0010	LF		6' High With Base, 12" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	536.46	172.80
			For >3:1 Sloped Soil At Top, Add	16.23	
32 32 13 00-0011	LF		8' High With Base, 12" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	570.04	180.31
			For >3:1 Sloped Soil At Top, Add	17.80	
32 32 13 00-0012	LF		10' High With Base, 16" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	789.09	241.64
			For >3:1 Sloped Soil At Top, Add	25.99	
32 32 13 00-0013	LF		12' High With Base, 18" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	997.50	310.39
			For >3:1 Sloped Soil At Top, Add	32.02	
32 32 13 00-0014	LF		16' High With Base, 21" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	1,491.89	470.49
			For >3:1 Sloped Soil At Top, Add	46.84	
32 32 13 00-0015	LF		20' High With Base, 24" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall	2,105.35	664.12
			For >3:1 Sloped Soil At Top, Add	66.06	
32 32 23 Segmental Retaining Walls (32 32)					
32 32 23 13			Segmental Concrete Unit Masonry Retaining Walls (32 32 23)		
32 32 23 13-0001			Modular Retaining Wall Systems (32 32 23 13) Note: Includes installation, material and manufacturer's wall design. Includes stone wall, cap stones, #57 stone backing, Geo-Grid (2/3 height of wall), miradrain and fill with earth, and compaction. Includes cap at top, pins, and installation. Excludes initial site grading, subbase preparation or finish grading.		
32 32 23 13-0002			"Amastone" Type Modular Retaining Wall Systems (32 32 23 13-0001)		
32 32 23 13-0003	SF		Up To 4' Height "Amastone" Type Modular Retaining Wall System	58.38	8.73
			For >3:1 Sloped Soil At Top, Add	3.48	
32 32 23 13-0004	SF		4 To 8' Height "Amastone" Type Modular Retaining Wall System	61.58	9.19
			For >3:1 Sloped Soil At Top, Add	3.67	
32 32 23 13-0005	SF		8 To 12' Height "Amastone" Type Modular Retaining Wall System	64.40	10.11
			For >3:1 Sloped Soil At Top, Add	3.76	
32 32 23 13-0006	SF		12 To 16' Height "Amastone" Type Modular Retaining Wall System	67.36	11.03
			For >3:1 Sloped Soil At Top, Add	3.85	
32 32 23 13-0007			"Diamond" Type Modular Retaining Wall Systems (32 32 23 13-0001)		
32 32 23 13-0008	SF		Up To 4' Height "Diamond" Type Modular Retaining Wall System	60.51	8.73
			For >3:1 Sloped Soil At Top, Add	3.66	
32 32 23 13-0009	SF		4 To 8' Height "Diamond" Type Modular Retaining Wall System	63.72	9.19
			For >3:1 Sloped Soil At Top, Add	3.85	
32 32 23 13-0010	SF		8 To 12' Height "Diamond" Type Modular Retaining Wall System	66.54	10.11
			For >3:1 Sloped Soil At Top, Add	3.94	
32 32 23 13-0011	SF		12 To 16' Height "Diamond" Type Modular Retaining Wall System	69.50	11.03
			For >3:1 Sloped Soil At Top, Add	4.03	
32 32 23 13-0012			"Keystone" Type Modular Retaining Wall Systems (32 32 23 13-0001)		

32 Exterior Improvements**32 30 Site Improvements****32 32 Retaining Walls**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 23 13-0013	SF	Up To 4' Height "Keystone" Type Modular Retaining Wall System..... <i>For >3:1 Sloped Soil At Top, Add</i>	65.62 4.09	8.73
32 32 23 13-0014	SF	4 To 8' Height "Keystone" Type Modular Retaining Wall System <i>For >3:1 Sloped Soil At Top, Add</i>	68.83 4.29	9.19
32 32 23 13-0015	SF	8 To 12' Height "Keystone" Type Modular Retaining Wall System <i>For >3:1 Sloped Soil At Top, Add</i>	71.65 4.37	10.11
32 32 23 13-0016	SF	12 To 16' Height "Keystone" Type Modular Retaining Wall System <i>For >3:1 Sloped Soil At Top, Add</i>	74.61 4.47	11.03
32 32 23 13-0017 "Cribblock" Type Modular Retaining Wall Systems (32 32 23 13-0001)				
32 32 23 13-0018	SF	Up To 4' Height "Cribblock" Type Modular Retaining Wall System..... <i>For >3:1 Sloped Soil At Top, Add</i> <i>For Gravel Backfill Instead Of Earth, Add</i>	58.38 3.48 0.25	8.73
32 32 23 13-0019	SF	4 To 8' Height "Cribblock" Type Modular Retaining Wall System <i>For >3:1 Sloped Soil At Top, Add</i> <i>For Gravel Backfill Instead Of Earth, Add</i>	61.58 3.67 0.25	9.19
32 32 23 13-0020	SF	8 To 12' Height "Cribblock" Type Modular Retaining Wall System <i>For >3:1 Sloped Soil At Top, Add</i> <i>For Gravel Backfill Instead Of Earth, Add</i>	64.40 3.76 0.25	10.11
32 32 23 13-0021	SF	12 To 16' Height "Cribblock" Type Modular Retaining Wall System <i>For >3:1 Sloped Soil At Top, Add</i> <i>For Gravel Backfill Instead Of Earth, Add</i>	67.36 3.85 0.25	11.03
32 32 23 13-0022 "Versa-Lok" Type Modular Retaining Wall Systems (32 32 23 13-0001)				
32 32 23 13-0023	SF	Up To 4' Height "Versa-Lok" Type Modular Retaining Wall System <i>For >3:1 Sloped Soil At Top, Add</i>	51.89 2.93	8.73
32 32 23 13-0024	SF	4 To 8' Height "Versa-Lok" Type Modular Retaining Wall System <i>For >3:1 Sloped Soil At Top, Add</i>	57.23 3.30	9.19
32 32 23 13-0025	SF	8 To 12' Height "Versa-Lok" Type Modular Retaining Wall System <i>For >3:1 Sloped Soil At Top, Add</i>	60.08 3.39	10.11
32 32 23 13-0026	SF	12 To 16' Height "Versa-Lok" Type Modular Retaining Wall System <i>For >3:1 Sloped Soil At Top, Add</i>	62.65 3.45	11.03
32 32 23 13-0027 Retaining Wall Cap Block Restoration (32 32 23 13-0001)				
Note: Includes removal of existing cap block and installation of new cap block to match.				
32 32 23 13-0028	LF	Removal And Reinstall Retaining Wall Cap Block And Pins <i>For >3:1 Sloped Soil At Top, Add</i>	33.58 1.73	
32 32 26 Metal Crib Retaining Walls (32 32)				
32 32 26 00-0001 Bin Type Retaining Wall (32 32 26)				
32 32 26 00-0002 Vertical Bin Walls (32 32 26 00-0001)				
Note: Excludes excavation and backfill.				
32 32 26 00-0003	SF	5.5' Vertical Bin Retaining Wall, Wall Heights To 11'	72.25	
32 32 26 00-0004	SF	7.7' Vertical Bin Retaining Wall, Wall Heights, 8.33' To 16.33'	85.71	
32 32 26 00-0005	SF	9.9' Vertical Bin Retaining Wall, Wall Heights, 13.67' To 21.67'	99.88	
32 32 26 00-0006	SF	12.1' Vertical Bin Retain Wall, Wall Heights 17.67' To 25.67'	107.96	
32 32 26 00-0007	SF	14.3' Vertical Bin Retain Wall, Wall Heights 20.33' To 28.33'	120.56	
32 32 26 00-0008	SF	16.5' Vertical Bin Retain Wall, Wall Heights 20.33' To 28.33'	128.64	
32 32 26 00-0009 Battered Bin Walls (32 32 26 00-0001)				
Note: Excludes excavation and backfill.				
32 32 26 00-0010	SF	5.5' Battered Bin Retain Wall, Wall Heights To 11'	64.14	
32 32 26 00-0011	SF	7.7' Battered Bin Retain Wall, Wall Heights 8.33' To 16.33'	69.52	
32 32 26 00-0012	SF	9.9' Battered Bin Retain Wall, Wall Heights 13.67' To 21.67'	78.20	
32 32 26 00-0013	SF	12.1' Battered Bin Retain Wall, Wall Heights 17.67' To 25.67'	87.62	
32 32 26 00-0014	SF	14.3' Battered Bin Retain Wall, Wall Heights 20.33' To 28.33'	102.56	
32 32 26 00-0015	SF	16.5' Battered Bin Retain Wall, Wall Heights 20.33' To 28.33'	105.25	
32 32 26 00-0016 Aluminized Steel Bin (32 32 26)				
Note: Excludes excavation and backfill.				
32 32 26 00-0017	SF	4' High, 5.5' Deep Aluminized Steel Bin..... <i>For >3:1 Sloped Soil At Top, Add</i> <i>For Galvanized Type, Deduct</i>	49.84 3.41 -4.01	4.89
32 32 26 00-0018	SF	8' High, 5.5' Deep Aluminized Steel Bin..... <i>For >3:1 Sloped Soil At Top, Add</i> <i>For Galvanized Type, Deduct</i>	56.03 3.92 -4.62	4.89
32 32 26 00-0019	SF	10' High, 7.7' Deep Aluminized Steel Bin..... <i>For >3:1 Sloped Soil At Top, Add</i> <i>For Galvanized Type, Deduct</i>	59.81 4.18 -4.92	5.35
32 32 26 00-0020	SF	12' High, 7.7' Deep Aluminized Steel Bin..... <i>For >3:1 Sloped Soil At Top, Add</i> <i>For Galvanized Type, Deduct</i>	68.14 4.77 -5.61	6.03
32 32 26 00-0021	SF	16' High, 7.7' Deep Aluminized Steel Bin..... <i>For >3:1 Sloped Soil At Top, Add</i> <i>For Galvanized Type, Deduct</i>	65.46 4.51 -5.31	6.25



Exterior Improvements			32
Site Improvements			32 30
Retaining Walls			32 32

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 26 00-0022	SF	16'	High, 9.9' Deep Aluminized Steel Bin.....	73.20	6.37
			For >3:1 Sloped Soil At Top, Add	5.15	
			For Galvanized Type, Deduct	-6.06	
32 32 26 00-0023	SF	20'	High, 9.9' Deep Aluminized Steel Bin.....	81.29	6.71
			For >3:1 Sloped Soil At Top, Add	5.76	
			For Galvanized Type, Deduct	-6.78	
32 32 26 00-0024	SF	20'	High, 12.1' Deep Aluminized Steel Bin.....	83.21	7.05
			For >3:1 Sloped Soil At Top, Add	5.88	
			For Galvanized Type, Deduct	-6.92	
32 32 26 00-0025	SF	24'	High, 12.1' Deep Aluminized Steel Bin.....	87.66	7.05
			For >3:1 Sloped Soil At Top, Add	6.25	
			For Galvanized Type, Deduct	-7.36	
32 32 26 00-0026	SF	24'	High, 14.3' Deep Aluminized Steel Bin.....	92.09	7.17
			For >3:1 Sloped Soil At Top, Add	6.62	
			For Galvanized Type, Deduct	-7.79	
32 32 26 00-0027	SF	28'	High, 14.3' Deep Aluminized Steel Bin.....	95.22	7.28
			For >3:1 Sloped Soil At Top, Add	6.86	
			For Galvanized Type, Deduct	-8.08	

32 32 29 Timber Retaining Walls (32 32)**32 32 29 00-0001 Wood Post Retaining Walls (32 32 29)**

Note: System includes wood posts installed side-by-side to various heights, and underdrain. Excludes initial site grading, subbase preparation or finish grading.

32 32 29 00-0002	LF	4" x 4", 1'	High, Redwood, Wood Post Retaining Walls.....	95.71	29.77
			For >3:1 Sloped Soil At Top, Add	3.08	
32 32 29 00-0003	LF	4" x 4", 2'	High, Redwood, Wood Post Retaining Walls.....	187.25	58.29
			For >3:1 Sloped Soil At Top, Add	6.01	
32 32 29 00-0004	LF	4" x 4", 1'	High, Cedar, Wood Post Retaining Walls.....	91.08	29.77
			For >3:1 Sloped Soil At Top, Add	2.69	
32 32 29 00-0005	LF	4" x 4", 2'	High, Cedar, Wood Post Retaining Walls.....	178.24	58.29
			For >3:1 Sloped Soil At Top, Add	5.25	
32 32 29 00-0006	LF	4" x 4", 1'	High, Pressure Treated Lumber, Wood Post Retaining Walls.....	84.49	26.01
			For >3:1 Sloped Soil At Top, Add	2.75	
32 32 29 00-0007	LF	4" x 4", 2'	High, Pressure Treated Lumber, Wood Post Retaining Walls.....	165.42	50.87
			For >3:1 Sloped Soil At Top, Add	5.41	
32 32 29 00-0008	LF	4" x 4", 1'	High, Creosoted Lumber, Wood Post Retaining Walls.....	76.80	23.09
			For >3:1 Sloped Soil At Top, Add	2.60	
32 32 29 00-0009	LF	4" x 4", 2'	High, Creosoted Lumber, Wood Post Retaining Walls.....	138.87	41.79
			For >3:1 Sloped Soil At Top, Add	4.70	
32 32 29 00-0010	LF	6" x 6", 2'	High, Redwood, Wood Post Retaining Walls.....	259.56	70.61
			For >3:1 Sloped Soil At Top, Add	10.06	
32 32 29 00-0011	LF	6" x 6", 4'	High, Redwood, Wood Post Retaining Walls.....	513.40	138.41
			For >3:1 Sloped Soil At Top, Add	20.12	
32 32 29 00-0012	LF	6" x 6", 2'	High, Cedar, Wood Post Retaining Walls.....	254.41	70.61
			For >3:1 Sloped Soil At Top, Add	9.62	
32 32 29 00-0013	LF	6" x 6", 4'	High, Cedar, Wood Post Retaining Walls.....	500.53	138.41
			For >3:1 Sloped Soil At Top, Add	19.02	
32 32 29 00-0014	LF	6" x 6", 2'	High, Pressure Treated Lumber, Wood Post Retaining Walls.....	217.95	57.35
			For >3:1 Sloped Soil At Top, Add	8.77	
32 32 29 00-0015	LF	6" x 6", 4'	High, Pressure Treated Lumber, Wood Post Retaining Walls.....	432.96	113.24
			For >3:1 Sloped Soil At Top, Add	17.54	
32 32 29 00-0016	LF	6" x 6", 2'	High, Creosoted Lumber, Wood Post Retaining Walls.....	180.56	45.86
			For >3:1 Sloped Soil At Top, Add	7.54	
32 32 29 00-0017	LF	6" x 6", 4'	High, Creosoted Lumber, Wood Post Retaining Walls.....	355.67	89.74
			For >3:1 Sloped Soil At Top, Add	14.98	
32 32 29 00-0018	LF	8" x 8", 4'	High, Redwood, Wood Post Retaining Walls.....	658.57	153.03
			For >3:1 Sloped Soil At Top, Add	29.96	
32 32 29 00-0019	LF	8" x 8", 6'	High, Redwood, Wood Post Retaining Walls.....	1,232.48	285.71
			For >3:1 Sloped Soil At Top, Add	56.20	
32 32 29 00-0020	LF	8" x 8", 4'	High, Cedar, Wood Post Retaining Walls.....	632.85	153.03
			For >3:1 Sloped Soil At Top, Add	27.77	
32 32 29 00-0021	LF	8" x 8", 6'	High, Cedar, Wood Post Retaining Walls.....	1,183.60	285.71
			For >3:1 Sloped Soil At Top, Add	52.04	
32 32 29 00-0022	LF	8" x 8", 4'	High, Pressure Treated Lumber, Wood Post Retaining Walls.....	597.93	176.54
			For >3:1 Sloped Soil At Top, Add	20.81	
32 32 29 00-0023	LF	8" x 8", 6'	High, Pressure Treated Lumber, Wood Post Retaining Walls.....	1,115.41	329.68
			For >3:1 Sloped Soil At Top, Add	38.76	
32 32 29 00-0024	LF	8" x 8", 4'	High, Creosoted Lumber, Wood Post Retaining Walls.....	497.61	142.69
			For >3:1 Sloped Soil At Top, Add	18.04	
32 32 29 00-0025	LF	8" x 8", 6'	High, Creosoted Lumber, Wood Post Retaining Walls.....	922.93	264.71
			For >3:1 Sloped Soil At Top, Add	33.46	
32 32 29 00-0026	LF	4'	High, Cedar, Random Diameter Poles, Wood Post Retaining Walls.....	182.02	58.82
			For >3:1 Sloped Soil At Top, Add	5.47	
32 32 29 00-0027	LF	6'	High, Cedar, Random Diameter Poles, Wood Post Retaining Walls.....	271.75	88.27
			For >3:1 Sloped Soil At Top, Add	8.09	
32 32 29 00-0028	LF	8'	High, Cedar, Random Diameter Poles, Wood Post Retaining Walls.....	361.38	117.62
			For >3:1 Sloped Soil At Top, Add	10.72	
32 32 29 00-0029	LF	4'	High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls.....	129.54	33.22
			For >3:1 Sloped Soil At Top, Add	5.36	
32 32 29 00-0030	LF	6'	High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls.....	188.53	47.95
			For >3:1 Sloped Soil At Top, Add	7.87	
32 32 29 00-0031	LF	8'	High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls.....	255.52	64.76
			For >3:1 Sloped Soil At Top, Add	10.72	

32 Exterior Improvements**32 30 Site Improvements****32 32 Retaining Walls**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 29 00-0032		Post And Board Retaining Walls (32 32 29)		
Note: System includes all the elements that must go into a wall that resists lateral pressure. System elements include posts and boards, cap, underdrain, and deadman where required. Excludes initial site grading, subbase preparation or finish grading.				
32 32 29 00-0033	LF	4" x 4" Post, 4' Spacing, 3' High, 2" Planking, Redwood, Post And Board Retaining Walls.....	82.01	17.66
		For >3:1 Sloped Soil At Top, Add.....	3.97	
32 32 29 00-0034	LF	4" x 4" Post, 2' Spacing, 4' High, 2" Planking, Redwood, Post And Board Retaining Walls.....	123.35	30.19
		For >3:1 Sloped Soil At Top, Add.....	5.36	
32 32 29 00-0035	LF	6" x 6" Post, 4' Spacing, 5' High 2" Planking, Redwood, Post And Board Retaining Walls.....	163.79	37.50
		For >3:1 Sloped Soil At Top, Add.....	7.54	
32 32 29 00-0036	LF	6" x 6" Post, 3' Spacing, 6' High, 2" Planking, Redwood, Post And Board Retaining Walls.....	228.43	53.17
		For >3:1 Sloped Soil At Top, Add.....	10.39	
32 32 29 00-0037	LF	6" x 6" With Deadman, 3' Spacing, 8' High, 2" Planking, Redwood, Post And Board Retaining Walls.....	299.08	69.16
		For >3:1 Sloped Soil At Top, Add.....	13.67	
32 32 29 00-0038	LF	8" x 8" Post, 2' Spacing, 8' High, 2" Planking, Redwood, Post And Board Retaining Walls.....	618.40	136.84
		For >3:1 Sloped Soil At Top, Add.....	29.30	
32 32 29 00-0039	LF	8" x 8" With Deadman, 2' Spacing, 9' High, 2" Planking, Redwood, Post And Board Retaining Walls.....	701.83	151.58
		For >3:1 Sloped Soil At Top, Add.....	33.89	
32 32 29 00-0040	LF	4" x 4" Post, 4' Spacing, 3' High, 2" Planking, Cedar, Post And Board Retaining Walls.....	82.83	18.38
		For >3:1 Sloped Soil At Top, Add.....	3.91	
32 32 29 00-0041	LF	4" x 4" With Deadman, 2' Spacing, 4' High 2" Planking, Cedar, Post And Board Retaining Walls.....	145.08	32.70
		For >3:1 Sloped Soil At Top, Add.....	6.78	
32 32 29 00-0042	LF	6" x 6" Post, 4' Spacing, 4' High 2" Planking, Cedar, Post And Board Retaining Walls.....	142.61	32.07
		For >3:1 Sloped Soil At Top, Add.....	6.67	
32 32 29 00-0043	LF	6" x 6" Post, 3' Spacing, 5' High 2" Planking, Cedar, Post And Board Retaining Walls.....	198.87	46.07
		For >3:1 Sloped Soil At Top, Add.....	9.07	
32 32 29 00-0044	LF	6" x 6" Post, 2' Spacing, 6' High 2" Planking, Cedar, Post And Board Retaining Walls.....	307.93	73.54
		For >3:1 Sloped Soil At Top, Add.....	13.67	
32 32 29 00-0045	LF	6 x 6 Post With Deadman, 3' Spacing, 6' High, 2" Planking, Cedar.....	245.49	56.51
		For >3:1 Sloped Soil At Top, Add.....	11.26	
32 32 29 00-0046	LF	8 x 8 Post With Deadman, 2' Spacing, 8' High, 2" Planking, Cedar.....	640.02	141.24
		For >3:1 Sloped Soil At Top, Add.....	30.40	
32 32 29 00-0047	LF	4 x 4 Post, 4' Spacing, 3' High 2" Planking, Pressure Treated.....	94.35	33.95
		For >3:1 Sloped Soil At Top, Add.....	2.24	
32 32 29 00-0048	LF	4 x 4 Post, 3' Spacing, 4' High 2" Planking, Pressure Treated.....	137.31	48.27
		For >3:1 Sloped Soil At Top, Add.....	3.47	
32 32 29 00-0049	LF	4 x 4 Post With Deadman, 2' Space, 5' High, 2" Planking, Pressure Treat.....	203.15	66.23
		For >3:1 Sloped Soil At Top, Add.....	6.01	
32 32 29 00-0050	LF	6 x 6 Post, 3' Spacing, 6' High, 2" Planking, Pressure Treated.....	361.22	111.77
		For >3:1 Sloped Soil At Top, Add.....	11.70	
32 32 29 00-0051	LF	6 x 6 Post, 2' Spacing, 7' High, 2" Planking, Pressure Treated.....	367.65	111.77
		For >3:1 Sloped Soil At Top, Add.....	12.25	
32 32 29 00-0052	LF	6 x 6 Post With Deadman, 3' Spacing 8' High, 2" Planking, Pressure Treat.....	343.45	107.39
		For >3:1 Sloped Soil At Top, Add.....	10.93	
32 32 29 00-0053	LF	8 x 8 Post With Deadman, 2' Spacing 10' High, 2" Planking, Pressure Treated.....	813.03	247.05
		For >3:1 Sloped Soil At Top, Add.....	27.12	
32 32 29 00-0054	LF	4 x 4 Post, 4' Spacing, 3' High Creosoted 2" Planking.....	94.35	33.95
		For >3:1 Sloped Soil At Top, Add.....	2.24	
32 32 29 00-0055	LF	4 x 4 Post, 3' Spacing, 4' High Creosoted, 2" Planking.....	137.31	48.27
		For >3:1 Sloped Soil At Top, Add.....	3.47	
32 32 29 00-0056	LF	4 x 4 Post With Deadman, 2' Spacing, 5' High, Creosoted, 2" Planking.....	203.15	66.23
		For >3:1 Sloped Soil At Top, Add.....	6.01	
32 32 29 00-0057	LF	6 x 6 Post, 3' Spacing, 6' High Creosoted, 2" Planking.....	256.10	82.42
		For >3:1 Sloped Soil At Top, Add.....	7.76	
32 32 29 00-0058	LF	6" x 6" Post, 2' Spacing, 7' High, 2" Planking, Creosoted, Post And Board Retaining Walls.....	361.22	111.77
		For >3:1 Sloped Soil At Top, Add.....	11.70	
32 32 29 00-0059	LF	6" x 6" Post With Deadman, 3' Spacing, 8' High, 2" Planking, Creosoted, Post And Board Retaining Walls.....	343.45	107.39
		For >3:1 Sloped Soil At Top, Add.....	10.93	
32 32 29 00-0060	LF	8" x 8" Post With Deadman, 2' Spacing, 10' High, Creosoted, 2" Planking, Post And Board Retaining Walls.....	813.03	247.05
		For >3:1 Sloped Soil At Top, Add.....	27.12	
32 32 29 00-0061		Wood Tie Retaining Walls, Rod Connector At 4' (32 32 29)		
Note: The system includes all the elements that must go into a wall that resists lateral pressure. System elements include: wood ties, threaded rod (1/2" diameter), underdrain, and deadman where required. Excludes initial site grading, subbase preparation or finish grading.				
32 32 29 00-0062		Redwood (32 32 29 00-0061)		
32 32 29 00-0063	LF	2' High, 6" x 6" Wood Tie Wall.....	134.12	36.14
		For >3:1 Sloped Soil At Top, Add.....	5.25	
32 32 29 00-0064	LF	4' High, 6" x 6" Wood Tie Wall Deadman At 6'.....	306.26	82.42
		For >3:1 Sloped Soil At Top, Add.....	12.03	
32 32 29 00-0065	LF	6' High, 6" x 6" Wood Tie Wall Deadman At 6'.....	458.17	123.58
		For >3:1 Sloped Soil At Top, Add.....	17.93	
32 32 29 00-0066	LF	4' High, 8" x 8" Wood Tie Wall Deadman At 6'.....	456.23	105.92
		For >3:1 Sloped Soil At Top, Add.....	20.77	
32 32 29 00-0067	LF	6' High, 8" x 8" Wood Tie Wall Deadman At 6'.....	685.74	158.89
		For >3:1 Sloped Soil At Top, Add.....	31.27	
32 32 29 00-0068	LF	8' High, 8" x 8" Wood Tie Wall Deadman At 6'.....	906.59	208.93
		For >3:1 Sloped Soil At Top, Add.....	41.55	



Exterior Improvements		32
Site Improvements		32 30
Retaining Walls		32 32

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 29 00-0069		Cedar (32 32 29 00-0061)		
32 32 29 00-0070	LF	2' High, 6" x 6" Wood Tie Wall	131.55	36.14
		For >3:1 Sloped Soil At Top, Add	5.03	
32 32 29 00-0071	LF	4' High, 6" x 6" Wood Tie Wall Deadman At 6'	298.54	82.42
		For >3:1 Sloped Soil At Top, Add	11.37	
32 32 29 00-0072	LF	6' High, 6" x 6" Wood Tie Wall Deadman At 6'	447.88	123.58
		For >3:1 Sloped Soil At Top, Add	17.06	
32 32 29 00-0073	LF	4' High, 8" x 8" Wood Tie Wall Deadman At 6'	438.22	105.92
		For >3:1 Sloped Soil At Top, Add	19.24	
32 32 29 00-0074	LF	6' High, 8" x 8" Wood Tie Wall Deadman At 6'	660.01	158.89
		For >3:1 Sloped Soil At Top, Add	29.08	
32 32 29 00-0075	LF	8' High, 8" x 8" Wood Tie Wall Deadman At 6'	870.57	208.93
		For >3:1 Sloped Soil At Top, Add	38.49	
32 32 29 00-0076		Creosoted Wood (32 32 29 00-0061)		
32 32 29 00-0077	LF	2' High, 6" x 8" Wood Tie Wall	139.78	47.95
		For >3:1 Sloped Soil At Top, Add	3.73	
32 32 29 00-0078	LF	4' High, 6" x 8" Wood Tie Wall Deadman At 6'	319.75	110.32
		For >3:1 Sloped Soil At Top, Add	8.42	
32 32 29 00-0079	LF	6' High, 6" x 8" Wood Tie Wall Deadman At 6'	474.49	163.27
		For >3:1 Sloped Soil At Top, Add	12.57	
32 32 29 00-0080	LF	4' High, 7" x 9" Wood Tie Wall Deadman At 6'	642.34	222.09
		For >3:1 Sloped Soil At Top, Add	16.84	
32 32 29 00-0081	LF	6' High, 7" x 9" Wood Tie Wall Deadman At 6'	935.15	323.52
		For >3:1 Sloped Soil At Top, Add	24.49	
32 32 29 00-0082	LF	8' High, 7" x 9" Wood Tie Wall Deadman At 6'	1,241.20	428.92
		For >3:1 Sloped Soil At Top, Add	32.58	
32 32 29 00-0083		Pressure Treated Wood (32 32 29 00-0061)		
32 32 29 00-0084	LF	2' High, 6" x 6" Wood Tie Wall	117.75	29.87
		For >3:1 Sloped Soil At Top, Add	4.93	
32 32 29 00-0085	LF	4' High, 6" x 6" Wood Tie Wall Deadman At 6'	267.84	67.69
		For >3:1 Sloped Soil At Top, Add	11.26	
32 32 29 00-0086	LF	6' High, 6" x 6" Wood Tie Wall Deadman At 6'	401.11	101.53
		For >3:1 Sloped Soil At Top, Add	16.84	
32 32 29 00-0087	LF	4' High, 8" x 8" Wood Tie Wall Deadman At 6'	425.50	122.11
		For >3:1 Sloped Soil At Top, Add	15.42	
32 32 29 00-0088	LF	6' High, 8" x 8" Wood Tie Wall Deadman At 6'	640.16	182.50
		For >3:1 Sloped Soil At Top, Add	23.40	
32 32 29 00-0089	LF	8' High, 8" x 8" Wood Tie Wall Deadman At 6'	848.00	242.67
		For >3:1 Sloped Soil At Top, Add	30.83	
32 32 53		Stone Retaining Walls (32 32)		
32 32 53 00-0001		Stone Retaining Walls (32 32 53)		
		Note: Construction is either dry set or mortar set. System includes concrete base, crushed stone, underdrain, and backfill. Standard design to have 12" thick top with vertical backside and sloped face at 2" per foot of height. Excludes initial site grading, subbase preparation or finish grading.		
32 32 53 00-0002		Stone Retaining Walls (32 32 53 00-0001)		
		Note: Stone at \$16.00/ton.		
32 32 53 00-0003	LF	\$16.00/ton 3' High Stone Retaining Wall, Dry Set	462.77	206.87
		For >3:1 Sloped Soil At Top, Add	4.16	
32 32 53 00-0004	LF	\$16.00/ton 4' High Stone Retaining Wall, Dry Set	545.77	246.11
		For >3:1 Sloped Soil At Top, Add	4.55	
32 32 53 00-0005	LF	\$16.00/ton 6' High Stone Retaining Wall, Dry Set	716.53	326.99
		For >3:1 Sloped Soil At Top, Add	5.32	
32 32 53 00-0006	LF	\$16.00/ton 8' High Stone Retaining Wall, Dry Set	1,103.38	511.25
		For >3:1 Sloped Soil At Top, Add	6.87	
32 32 53 00-0007	LF	\$16.00/ton 10' High Stone Retaining Wall, Dry Set	1,433.20	668.77
		For >3:1 Sloped Soil At Top, Add	8.13	
32 32 53 00-0008	LF	\$16.00/ton 12' High Stone Retaining Wall, Dry Set	1,778.36	832.81
		For >3:1 Sloped Soil At Top, Add	9.58	
32 32 53 00-0009	LF	\$16.00/ton 3' High Stone Retaining Wall, Mortar Set	415.26	183.16
		For >3:1 Sloped Soil At Top, Add	4.16	
32 32 53 00-0010	LF	\$16.00/ton 4' High Stone Retaining Wall, Mortar Set	486.95	216.71
		For >3:1 Sloped Soil At Top, Add	4.55	
32 32 53 00-0011	LF	\$16.00/ton 6' High Stone Retaining Wall, Mortar Set	629.71	283.51
		For >3:1 Sloped Soil At Top, Add	5.32	
32 32 53 00-0012	LF	\$16.00/ton 8' High Stone Retaining Wall, Mortar Set	963.63	441.40
		For >3:1 Sloped Soil At Top, Add	6.87	
32 32 53 00-0013	LF	\$16.00/ton 10' High Stone Retaining Wall, Mortar Set	1,237.17	570.80
		For >3:1 Sloped Soil At Top, Add	8.13	
32 32 53 00-0014	LF	\$16.00/ton 12' High Stone Retaining Wall, Mortar Set	1,536.57	711.96
		For >3:1 Sloped Soil At Top, Add	9.58	
32 32 53 00-0015		Stone Retaining Walls (32 32 53 00-0001)		
		Note: Stone at \$32.00/ton.		

32 Exterior Improvements**32 30 Site Improvements****32 32 Retaining Walls**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 53 00-0016 LF \$32.00/ton 3' High Stone Retaining Wall, Dry Set.....	477.56	206.87
For >3:1 Sloped Soil At Top, Add	5.42	
32 32 53 00-0017 LF \$32.00/ton 4' High Stone Retaining Wall, Dry Set.....	566.26	246.11
For >3:1 Sloped Soil At Top, Add	6.29	
32 32 53 00-0018 LF \$32.00/ton 6' High Stone Retaining Wall, Dry Set.....	746.13	326.99
For >3:1 Sloped Soil At Top, Add	7.84	
32 32 53 00-0019 LF \$32.00/ton 8' High Stone Retaining Wall, Dry Set.....	1,146.63	511.25
For >3:1 Sloped Soil At Top, Add	10.55	
32 32 53 00-0020 LF \$32.00/ton 10' High Stone Retaining Wall, Dry Set.....	1,492.39	668.77
For >3:1 Sloped Soil At Top, Add	13.16	
32 32 53 00-0021 LF \$32.00/ton 12' High Stone Retaining Wall, Dry Set.....	1,853.48	832.81
For >3:1 Sloped Soil At Top, Add	15.96	
32 32 53 00-0022 LF \$32.00/ton 3' High Stone Retaining Wall, Mortar Set.....	430.05	183.16
For >3:1 Sloped Soil At Top, Add	5.42	
32 32 53 00-0023 LF \$32.00/ton 4' High Stone Retaining Wall, Mortar Set.....	507.44	216.71
For >3:1 Sloped Soil At Top, Add	6.29	
32 32 53 00-0024 LF \$32.00/ton 6' High Stone Retaining Wall, Mortar Set.....	659.31	283.51
For >3:1 Sloped Soil At Top, Add	7.84	
32 32 53 00-0025 LF \$32.00/ton 8' High Stone Retaining Wall, Mortar Set.....	1,006.88	441.40
For >3:1 Sloped Soil At Top, Add	10.55	
32 32 53 00-0026 LF \$32.00/ton 10' High Stone Retaining Wall, Mortar Set.....	1,296.36	570.80
For >3:1 Sloped Soil At Top, Add	13.16	
32 32 53 00-0027 LF \$32.00/ton 12' High Stone Retaining Wall, Mortar Set.....	1,611.69	711.96
For >3:1 Sloped Soil At Top, Add	15.96	
32 32 53 00-0028 Stone Retaining Walls (32 32 53 00-0001) Note: Stone at \$48.00/ton.		
32 32 53 00-0029 LF \$48.00/ton 3' High Stone Retaining Wall, Dry Set.....	493.50	206.87
For >3:1 Sloped Soil At Top, Add	6.77	
32 32 53 00-0030 LF \$48.00/ton 4' High Stone Retaining Wall, Dry Set.....	586.52	246.11
For >3:1 Sloped Soil At Top, Add	8.01	
32 32 53 00-0031 LF \$48.00/ton 6' High Stone Retaining Wall, Dry Set.....	774.59	326.99
For >3:1 Sloped Soil At Top, Add	10.26	
32 32 53 00-0032 LF \$48.00/ton 8' High Stone Retaining Wall, Dry Set.....	1,189.89	511.25
For >3:1 Sloped Soil At Top, Add	14.22	
32 32 53 00-0033 LF \$48.00/ton 10' High Stone Retaining Wall, Dry Set.....	1,551.58	668.77
For >3:1 Sloped Soil At Top, Add	18.19	
32 32 53 00-0034 LF \$48.00/ton 12' High Stone Retaining Wall, Dry Set.....	1,929.75	832.81
For >3:1 Sloped Soil At Top, Add	22.45	
32 32 53 00-0035 LF \$48.00/ton 3' High Stone Retaining Wall, Mortar Set.....	445.99	183.16
For >3:1 Sloped Soil At Top, Add	6.77	
32 32 53 00-0036 LF \$48.00/ton 4' High Stone Retaining Wall, Mortar Set.....	527.93	216.71
For >3:1 Sloped Soil At Top, Add	8.03	
32 32 53 00-0037 LF \$48.00/ton 6' High Stone Retaining Wall, Mortar Set.....	687.77	283.51
For >3:1 Sloped Soil At Top, Add	10.26	
32 32 53 00-0038 LF \$48.00/ton 8' High Stone Retaining Wall, Mortar Set.....	1,050.14	441.40
For >3:1 Sloped Soil At Top, Add	14.22	
32 32 53 00-0039 LF \$48.00/ton 10' High Stone Retaining Wall, Mortar Set.....	1,355.55	570.80
For >3:1 Sloped Soil At Top, Add	18.19	
32 32 53 00-0040 LF \$48.00/ton 12' High Stone Retaining Wall, Mortar Set.....	1,687.96	711.96
For >3:1 Sloped Soil At Top, Add	22.45	
32 32 53 00-0041 Stone Retaining Walls (32 32 53 00-0001) Note: Stone at \$64.00/ton.		
32 32 53 00-0042 LF \$64.00/ton 3' High Stone Retaining Wall, Dry Set.....	509.43	206.87
For >3:1 Sloped Soil At Top, Add	8.13	
32 32 53 00-0043 LF \$64.00/ton 4' High Stone Retaining Wall, Dry Set.....	584.47	246.11
For >3:1 Sloped Soil At Top, Add	7.84	
32 32 53 00-0044 LF \$64.00/ton 6' High Stone Retaining Wall, Dry Set.....	805.32	326.99
For >3:1 Sloped Soil At Top, Add	12.87	
32 32 53 00-0045 LF \$64.00/ton 8' High Stone Retaining Wall, Dry Set.....	1,235.42	511.25
For >3:1 Sloped Soil At Top, Add	18.09	
32 32 53 00-0046 LF \$64.00/ton 10' High Stone Retaining Wall, Dry Set.....	1,613.05	668.77
For >3:1 Sloped Soil At Top, Add	23.41	
32 32 53 00-0047 LF \$64.00/ton 12' High Stone Retaining Wall, Dry Set.....	2,007.15	832.81
For >3:1 Sloped Soil At Top, Add	29.03	
32 32 53 00-0048 LF \$64.00/ton 3' High Stone Retaining Wall, Mortar Set.....	461.92	183.16
For >3:1 Sloped Soil At Top, Add	8.13	
32 32 53 00-0049 LF \$64.00/ton 4' High Stone Retaining Wall, Mortar Set.....	548.42	216.71
For >3:1 Sloped Soil At Top, Add	9.77	
32 32 53 00-0050 LF \$64.00/ton 6' High Stone Retaining Wall, Mortar Set.....	718.50	283.51
For >3:1 Sloped Soil At Top, Add	12.87	
32 32 53 00-0051 LF \$64.00/ton 8' High Stone Retaining Wall, Mortar Set.....	1,095.67	441.40
For >3:1 Sloped Soil At Top, Add	18.09	
32 32 53 00-0052 LF \$64.00/ton 10' High Stone Retaining Wall, Mortar Set.....	1,417.02	570.80
For >3:1 Sloped Soil At Top, Add	23.41	
32 32 53 00-0053 LF \$64.00/ton 12' High Stone Retaining Wall, Mortar Set.....	1,765.36	711.96
For >3:1 Sloped Soil At Top, Add	29.03	

32 33 Site Furnishings (32 30)



Exterior Improvements		32
Site Improvements		32 30
Site Furnishings		32 33

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 23 Site Trash and Litter Receptacles (32 33)				
32 33 23 00-0001 Steel Trash Containment (32 33 23)				
32 33 23 00-0002 Steel Frame Surrounded With Kiln-Dried Wood (32 33 23 00-0001)				
32 33 23 00-0003	EA	13" x 13" x 30" Ash Receptacle Steel Frame, Kiln Dried Wood	523.14	51.47
32 33 23 00-0004	EA	24" x 24" x 30" High Open Top Trash Container Steel Frame, Kiln Dried Wood	499.10	51.47
32 33 23 00-0005	EA	21" x 21" x 31" High Flat Top Trash Container Steel Frame, Kiln Dried Wood	499.10	51.47
32 33 23 00-0006	EA	24" x 24" x 31" High, Flat Top Trash Container Steel Frame, Kiln Dried Wood	472.05	51.47
32 33 23 00-0007	EA	18" x 18" x 37" High Dome Top Trash Container Steel Frame, Kiln Dried Wood	523.14	51.47
32 33 23 00-0008	EA	23" x 23" x 37" High Dome Top Trash Container Steel Frame, Kiln Dried Wood	472.05	51.47
32 33 23 00-0009	EA	24" x 24" x 37" High Dome Top Trash Container Steel Frame, Kiln Dried Wood	649.38	51.47
32 33 23 00-0010 Square Steel Frames Surrounded With Flat Steel (32 33 23 00-0001)				
32 33 23 00-0011	EA	26" Diameter x 34" High Open Top Trash Square Container Steel Frame, Flat Steel Surround	951.85	51.47
32 33 23 00-0012	EA	26" Diameter x 34" High Dome Top Trash Square Container Steel Frame, Flat Steel Surround	1,028.23	51.47
32 33 23 00-0013	EA	26" Diameter x 39" High Dome Top Trash Square Container Steel Frame, Flat Steel Surround	1,028.23	51.47
32 33 23 00-0014 Round Steel Pipe And Flat Steel Frames (32 33 23 00-0001)				
Note: Surrounded with kiln-dried wood.				
32 33 23 00-0015	EA	21" Diameter x 32" High Open Top Trash Container Steel Pipe, Flat Steel Frame, Kiln Dried Wood	1,410.14	51.47
32 33 23 00-0016	EA	21" Diameter x 32" High Flat Top Trash Steel Container Pipe, Flat Steel Frame, Kiln Dried Wood	1,519.25	51.47
32 33 23 00-0017	EA	21" Diameter x 39" High Dome Top Trash Steel Container Pipe, Flat Steel Frame, Kiln Dried Wood	1,751.13	51.47
32 33 23 00-0018	EA	21" Diameter x 40" High HPR Top Trash Container Steel Pipe, Flat Steel Frame, Kiln Dried Wood	1,587.45	51.47
32 33 23 00-0019 Round Steel Pipe Surrounded With Perforated (32 33 23 00-0001)				
32 33 23 00-0020	EA	21" Diameter x 32" High Open Top Trash Container Perforated Round Steel Pipe	1,260.10	51.47
32 33 23 00-0021	EA	21" Diameter x 32" High Flat Top Trash Container Perforated Round Steel Pipe	1,369.22	51.47
32 33 23 00-0022	EA	21" Diameter x 39" High Dome Top Trash Container Perforated Round Steel Pipe	1,601.09	51.47
32 33 23 00-0023	EA	21" Diameter x 40" High HPR Top Trash Container Perforated Round Steel Pipe	1,451.06	51.47
32 33 23 00-0024 Round Steel Pipe Frames Surrounded With Welded Wire (32 33 23 00-0001)				
32 33 23 00-0025	EA	21" Diameter x 32" High Flat Top Trash Container Steel Pipe Frame, Welded Wire Surround	1,000.95	51.47
32 33 23 00-0026	EA	21" Diameter x 32" High Open Top Trash Steel Container Pipe Frame, Welded Wire Surround	1,110.07	51.47
32 33 23 00-0027	EA	21" Diameter x 39" High Dome Top Trash Steel Container Pipe Frame, Welded Wire Surround	1,341.94	51.47
32 33 23 00-0028	EA	21" Diameter x 40" High HPR Top Trash Container Steel Pipe Frame, Welded Wire Surround	1,191.91	51.47
32 33 23 00-0029 Litter Baskets (32 33 23)				
32 33 23 00-0030 Round Wire Litter Baskets (32 33 23 00-0029)				
32 33 23 00-0031	EA	1.33' Diameter x 1.83' High Round Wire Litter Basket	177.14	5.23
32 33 23 00-0032	EA	1.5' Diameter x 1.83' High Round Wire Litter Basket	223.81	5.23
32 33 23 00-0033	EA	1.75' Diameter x 2.33' High Round Wire Litter Basket	303.01	5.23
32 33 23 00-0034	EA	1.83' Diameter x 2.83' High Round Wire Litter Basket	347.71	5.23
32 33 23 00-0035 Trash Can/Wire Basket Holder (32 33 23 00-0029)				
32 33 23 00-0036	EA	Steel Post, Single Holder	249.36	42.03
32 33 23 00-0037	EA	Steel Post, Double Holder	338.69	42.03
32 33 23 00-0038	EA	Redwood Post, Single Holder	162.28	42.03
32 33 23 00-0039	EA	Redwood Post, Double Holder	193.09	42.03
32 33 23 00-0040 Litter Receptacles, Freestanding (32 33 23 00-0029)				
Note: Includes 1-1/2" outside diameter steel leg supports. Wall mounted, includes 3/8" x 3" steel wall plates. Surface mounted, includes 2-1/2" outside diameter steel tube with floor flange, embedded to include 2-1/2" outside diameter steel tube.				
32 33 23 00-0041	EA	16" Diameter x 28" High Litter Receptacle, Freestanding Or Embedded	1,425.48	21.45
For Powder Coated Sand Pan, Add			50.00	
For Orange Peel Lid, Add			25.00	
For Polished Granite Lid, Add			50.00	
32 33 23 00-0042	EA	16" Diameter x 32" High Litter Receptacle, Freestanding Or Embedded	1,500.62	21.45
For Powder Coated Sand Pan, Add			50.00	
For Orange Peel Lid, Add			25.00	
For Polished Granite Lid, Add			50.00	
32 33 23 00-0043	EA	20" Diameter x 36" High Litter Receptacle, Freestanding Or Embedded	1,747.48	32.16
For Powder Coated Sand Pan, Add			50.00	
For Orange Peel Lid, Add			25.00	
For Polished Granite Lid, Add			50.00	
32 33 23 00-0044	EA	20" Diameter x 40" High Litter Receptacle, Freestanding Embedded	1,822.63	32.16
For Powder Coated Sand Pan, Add			50.00	
For Orange Peel Lid, Add			25.00	
For Polished Granite Lid, Add			50.00	

32 Exterior Improvements**32 30 Site Improvements****32 33 Site Furnishings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 23 00-0045 EA 16" Diameter x 28" High Litter Receptacle, Pole Mount With Pole For Powder Coated Sand Pan, Add For 1-1/2" x 8-1/2" Diameter Metal Cover Plate, Add For Orange Peel Lid, Add For Polished Granite Lid, Add	1,897.77 50.00 22.50 25.00 50.00	32.16
32 33 23 00-0046 EA 16" Diameter x 32" High Litter Receptacle, Pole Mount With Pole For Powder Coated Sand Pan, Add For 1-1/2" x 8-1/2" Diameter Metal Cover Plate, Add For Orange Peel Lid, Add For Polished Granite Lid, Add	1,972.91 50.00 22.50 25.00 50.00	32.16
32 33 23 00-0047 EA 16" Diameter x 28" High Litter Receptacle, Wall Mount..... For Powder Coated Sand Pan, Add For Orange Peel Lid, Add For Polished Granite Lid, Add For 1-1/2" x 6" Diameter Metal Cover Plate, Add	1,573.60 50.00 25.00 50.00 20.00	27.88
32 33 23 00-0048 EA 16" Diameter x 32" High Litter Receptacle, Wall Mount..... For Powder Coated Sand Pan, Add For Orange Peel Lid, Add For Polished Granite Lid, Add For 1-1/2" x 6" Diameter Metal Cover Plate, Add	1,648.75 50.00 25.00 50.00 20.00	27.88
32 33 23 00-0049 Ash Receptacles (32 33 23)		
32 33 23 00-0050 EA 12" Diameter x 21" High Ash Receptacle, Freestanding Or Embedded..... For 1-1/2" x 8-1/2" Diameter Metal Cover Plate, Add For Sand Pan, Add For Bowl And Funnel, Add	805.17 22.50 110.00 120.00	21.45
32 33 23 00-0051 EA 18" Square Concrete Exposed Aggregate x 36" High Ash Receptacles With 3-1/2" ID iron Pipe With Cap Square Concrete With Steel Liner.....	332.61	21.45
32 33 23 00-0052 Trash Receptacles (32 33 23)		
32 33 23 00-0053 EA Outdoor Covered Steel Receptacle With Liner	1,170.00	21.45
32 33 23 00-0054 EA Driftwood And Sable Receptacle, 35 Gallon With Liner And Frame	590.11	21.45
32 33 23 00-0055 EA 24" x 24" Square Trash Containment With Exposed Aggregate Finish	870.05	21.45
32 33 23 00-0056 EA 30" x 30" Square Trash Containment With Exposed Aggregate Finish	906.77	23.58
32 33 23 00-0057 EA 36" x 36" Square Trash Containment With Exposed Aggregate Finish	975.93	25.73
32 33 23 00-0058 EA 32 Gallon, Open Round Trash Receptacle, Recycled Plastic Lumber.....	488.49	17.15
32 33 23 00-0059 EA 32 Gallon, Round Trash Receptacle With Liner And Lid, Recycled Plastic Lumber	583.11	17.15
32 33 23 00-0060 EA 24" x 24" Square 18" High Trash Receptacle, Fiberglass.....	966.95	21.45
32 33 23 00-0061 Trash Containers (Dumpsters) (32 33 23)		
32 33 23 00-0062 EA 1 CY Straight Side Trash Dumpster.....	290.72	
32 33 23 00-0063 EA 1.5 CY Straight Side Trash Dumpster.....	438.08	
32 33 23 00-0064 EA 2 CY Straight Side Trash Dumpster.....	581.45	
32 33 23 00-0065 EA 2 CY Sloped Side Trash Dumpster.....	581.45	
32 33 23 00-0066 EA 3 CY Sloped Side Trash Dumpster.....	872.17	
32 33 23 00-0067 EA 4 CY Sloped Side Trash Dumpster.....	1,162.89	
32 33 23 00-0068 EA 6 CY Sloped Side Trash Dumpster.....	1,744.34	
32 33 23 00-0069 EA 8 CY Sloped Side Trash Dumpster.....	2,325.78	
32 33 33 Site Manufactured Planters (32 33)		
32 33 33 00-0001 Precast Concrete Planters (32 33 33)		
32 33 33 00-0002 Circular Precast Concrete Planters (32 33 33 00-0001)		
32 33 33 00-0003 EA 24" Diameter, 17" Height, Circular Precast Concrete Planter	784.73	25.70
32 33 33 00-0004 EA 24" Diameter, 24" Height, Circular Precast Concrete Planter	878.40	30.83
32 33 33 00-0005 EA 24" Diameter, 33" Height, Circular Precast Concrete Planter	961.79	30.83
32 33 33 00-0006 EA 30" Diameter, 17" Height, Circular Precast Concrete Planter	1,043.19	35.97
32 33 33 00-0007 EA 30" Diameter, 30" Height, Circular Precast Concrete Planter	1,262.42	46.25
32 33 33 00-0008 EA 36" Diameter, 24" Height, Circular Precast Concrete Planter	1,375.24	46.25
32 33 33 00-0009 EA 36" Diameter, 30" Height, Circular Precast Concrete Planter	1,549.84	51.38
32 33 33 00-0010 EA 48" Diameter, 17" Height, Circular Precast Concrete Planter	1,638.13	51.38
32 33 33 00-0011 EA 48" Diameter, 24" Height, Circular Precast Concrete Planter	1,823.26	64.22
32 33 33 00-0012 EA 48" Diameter, 30" Height, Circular Precast Concrete Planter	1,939.39	68.34
32 33 33 00-0013 EA 48" Diameter, 36" Height, Circular Precast Concrete Planter	2,020.17	71.93
32 33 33 00-0014 EA 60" Diameter, 17" Height, Circular Precast Concrete Planter	1,834.67	64.22
32 33 33 00-0015 EA 60" Diameter, 24" Height, Circular Precast Concrete Planter	2,017.71	71.93
32 33 33 00-0016 EA 60" Diameter, 36" Height, Circular Precast Concrete Planter	2,589.65	77.08
32 33 33 00-0017 EA 72" Diameter, 36" Height, Circular Precast Concrete Planter	3,361.65	97.63
32 33 33 00-0018 EA 84" Diameter, 36" Height, Circular Precast Concrete Planter	3,909.06	102.76
32 33 33 00-0019 Square Precast Concrete Planters (32 33 33 00-0001)		
32 33 33 00-0020 EA 36" Square, 30" Height, Square Precast Concrete Planter.....	1,577.47	66.80
32 33 33 00-0021 EA 42" Square, 30" Height, Square Precast Concrete Planter.....	1,807.42	71.93
32 33 33 00-0022 EA 60" Square, 36" Height, Square Precast Concrete Planter.....	2,864.81	82.21
32 33 33 00-0023 EA 72" Square, 36" Height, Square Precast Concrete Planter.....	3,056.58	87.35



Exterior Improvements		32	32
Site Improvements		32 30	
Site Furnishings		32 33	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 33 00-0024 Rectangular Precast Concrete Planters (32 33 33 00-0001)		
32 33 33 00-0025 EA 33" x 18", 20" Height, Rectangular Precast Concrete Planter.....	915.19	30.83
32 33 33 00-0026 EA 48" x 18", 20" Height, Rectangular Precast Concrete Planter.....	1,071.11	46.25
32 33 33 00-0027 EA 60" x 18", 20" Height, Rectangular Precast Concrete Planter.....	1,243.25	51.38
32 33 33 00-0028 EA 72" x 18", 20" Height, Rectangular Precast Concrete Planter.....	1,413.66	64.22
32 33 33 00-0029 Fiberglass Planters (32 33 33)		
32 33 33 00-0030 Circular Fiberglass Planters (32 33 33 00-0029)		
32 33 33 00-0031 EA 36" Diameter, 27" High, Circular Fiberglass Planter	1,943.28	25.70
32 33 33 00-0032 EA 60" Diameter, 39" High, Circular Fiberglass Planter	3,247.14	25.70
32 33 33 00-0033 EA 36" Diameter, 24" High, Circular Fiberglass Planter	1,289.02	25.70
32 33 33 00-0034 EA 60" Diameter, 24" High, Circular Fiberglass Planter	2,559.79	25.70
32 33 33 00-0035 Tapered Circular Fiberglass Planters (32 33 33 00-0029)		
32 33 33 00-0036 EA 24" Diameter, 20" High, Tapered Circular Fiberglass Planter	744.04	25.70
32 33 33 00-0037 EA 30" Diameter, 25" High, Tapered Circular Fiberglass Planter	1,100.04	25.70
32 33 33 00-0038 EA 36" Diameter, 30" High, Tapered Circular Fiberglass Planter	1,976.36	25.70
32 33 33 00-0039 EA 40" Diameter, 36" High, Tapered Circular Fiberglass Planter	2,767.66	25.70
32 33 33 00-0040 Square Fiberglass Planters (32 33 33 00-0029)		
32 33 33 00-0041 EA 24" Square, 21" High, Square Fiberglass Planter	983.25	25.70
32 33 33 00-0042 EA 24" Square, 24" High, Square Fiberglass Planter	1,005.56	25.70
32 33 33 00-0043 EA 30" Square, 12" High, Square Fiberglass Planter	1,017.36	25.70
32 33 33 00-0044 EA 30" Square, 21" High, Square Fiberglass Planter	1,156.74	25.70
32 33 33 00-0045 EA 30" Square, 24" High, Square Fiberglass Planter	1,258.29	25.70
32 33 33 00-0046 Rectangular Fiberglass Planters (32 33 33 00-0029)		
32 33 33 00-0047 EA 48" x 12", 12" High, Rectangular Fiberglass Planter.....	1,134.67	25.70
32 33 33 00-0048 EA 48" x 12", 21" High, Rectangular Fiberglass Planter.....	1,217.94	25.70
32 33 33 00-0049 EA 48" x 24", 12" High, Rectangular Fiberglass Planter.....	1,592.96	25.70
32 33 33 00-0050 EA 48" x 24", 21" High, Rectangular Fiberglass Planter.....	1,759.52	25.70
32 33 33 00-0051 Timber Planters (32 33 33)		
32 33 33 00-0052 Square Timber Planters (32 33 33 00-0051)		
32 33 33 00-0053 EA 14" Square, 30" High, Square Timber Planter	679.84	51.47
32 33 33 00-0054 EA 21" Square, 30" High, Square Timber Planter	679.84	51.47
32 33 33 00-0055 EA 27" Square, 30" High, Square Timber Planter	1,327.38	51.47
32 33 33 00-0056 EA 34" Square, 30" High, Square Timber Planter	1,144.97	51.47
32 33 33 00-0057 EA 41" Square, 36" High, Square Timber Planter	1,372.98	51.47
32 33 33 00-0058 EA 54" Square, 36" High, Square Timber Planter	3,598.32	51.47
32 33 33 00-0059 EA 81" Square, 36" High, Square Timber Planter	5,431.50	51.47
32 33 33 00-0060 Rectangular Timber Planters (32 33 33 00-0051)		
32 33 33 00-0061 EA 21" x 14", 30" High, Rectangular Timber Planter	670.72	51.47
32 33 33 00-0062 EA 27" x 14", 30" High, Rectangular Timber Planter	752.80	51.47
32 33 33 00-0063 EA 27" x 21", 30" High, Rectangular Timber Planter	999.05	51.47
32 33 33 00-0064 EA 34" x 21", 30" High, Rectangular Timber Planter	1,108.49	51.47
32 33 33 00-0065 EA 41" x 21", 30" High, Rectangular Timber Planter	1,436.82	51.47
32 33 33 00-0066 EA 34" x 27", 30" High, Rectangular Timber Planter	1,673.95	51.47
32 33 33 00-0067 EA 41" x 27", 30" High, Rectangular Timber Planter	1,874.59	51.47
32 33 33 00-0068 EA 54" x 27", 30" High, Rectangular Timber Planter	2,449.17	51.47
32 33 33 00-0069 EA 54" x 34", 30" High, Rectangular Timber Planter	2,768.38	51.47
32 33 33 00-0070 EA 68" x 34", 36" High, Rectangular Timber Planter	3,160.55	51.47
32 33 33 00-0071 EA 54" x 41", 36" High, Rectangular Timber Planter	3,005.51	51.47
32 33 33 00-0072 EA 68" x 41", 36" High, Rectangular Timber Planter	3,406.80	51.47
32 33 33 00-0073 EA 81" x 41", 36" High, Rectangular Timber Planter	3,817.21	51.47
32 33 43 Site Seating and Tables (32 33)		
32 33 43 13 Site Seating (32 33 43)		
32 33 43 13-0001 Benches (Landscapeforms) (32 33 43 13)		
Note: Excludes embedding in concrete See CSI section 32 31 13 13-0001 for drilling and concrete.		
32 33 43 13-0002 EA 72" Backless Wood Or PolySite Bench (Landscapeforms Balustrade).....	1,568.90	85.78
32 33 43 13-0003 EA 72" Backed Wood Or PolySite Bench (Landscapeforms Balustrade).....	1,960.15	85.78
32 33 43 13-0004 EA 96" Backed Wood Bench (Landscapeforms Balustrade)	2,211.67	85.78
32 33 43 13-0005 EA End Loop Arms For Backed Bench (Landscapeforms Balustrade).....	182.63	21.45
32 33 43 13-0006 EA 72" Backless Wood Or PolySite Bench (Landscapeforms Gretchen's).....	1,714.71	85.78
32 33 43 13-0007 EA 96" Backless Wood Bench (Landscapeforms Gretchen's).....	1,939.49	85.78
32 33 43 13-0008 EA 72" Backed Wood Or PolySite Bench (Landscapeforms Gretchen's).....	2,115.68	85.78
32 33 43 13-0009 EA 96" Backed Wood Bench (Landscapeforms Gretchen's).....	2,389.06	85.78

32 Exterior Improvements**32 30 Site Improvements****32 33 Site Furnishings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 43 13-0010 EA 72" Backed Wood Or PolySite Bench With Armrest (Landscapeforms Gretchen's)	2,419.44	85.78
32 33 43 13-0011 EA 96" Backed Wood Bench With Armrest (Landscapeforms Gretchen's)	2,692.83	85.78
32 33 43 13-0012 EA 59" Backed Wood Or Metal Rod Bench (Landscapeforms Hyde Park)	3,139.49	85.78
32 33 43 13-0013 EA 75" Backed Wood Or Metal Rod Bench (Landscapeforms Hyde Park)	3,411.90	85.78
32 33 43 13-0014 EA 42" Backless Metal Grid Bench (Landscapeforms Manistee)	888.58	64.34
32 33 43 13-0015 EA 62" Backless Metal Grid Bench (Landscapeforms Manistee)	960.27	64.34
32 33 43 13-0016 EA 72" Backless Metal Grid Bench (Landscapeforms Manistee)	1,039.07	75.07
32 33 43 13-0017 EA 82" Backless Metal Grid Bench (Landscapeforms Manistee)	1,211.12	75.07
32 33 43 13-0018 EA 42" Backed Metal Grid Bench (Landscapeforms Manistee)	1,110.76	75.07
32 33 43 13-0019 EA 62" Backed Metal Grid Bench (Landscapeforms Manistee)	1,182.45	75.07
32 33 43 13-0020 EA 72" Backed Metal Grid Bench (Landscapeforms Manistee)	1,275.58	85.78
32 33 43 13-0021 EA 82" Backed Metal Grid Bench (Landscapeforms Manistee)	1,461.97	85.78
32 33 43 13-0022 EA 42" Backed Metal Grid Bench With Armrest Each End (Landscapeforms Manistee)	1,239.80	75.07
32 33 43 13-0023 EA 62" Backed Metal Grid Bench With Armrest Each End (Landscapeforms Manistee)	1,332.93	85.78
32 33 43 13-0024 EA 72" Backed Metal Grid Bench With Armrest Each End (Landscapeforms Manistee)	1,404.62	85.78
32 33 43 13-0025 EA 82" Backed Metal Grid Bench With Armrest Each End (Landscapeforms Manistee)	1,591.01	85.78
32 33 43 13-0026 EA 72" Backless Solid Wood Bench (Landscapeforms Palisade)	2,528.80	85.78
32 33 43 13-0027 EA 96" Backless Solid Wood Bench (Landscapeforms Palisade)	2,905.46	85.78
32 33 43 13-0028 EA 70" Backless Perforated Metal Bench (Landscapeforms Petoskey)	1,624.79	85.78
32 33 43 13-0029 EA 70" Dual Support Backed Perforated Metal Bench (Landscapeforms Petoskey)	1,960.15	85.78
32 33 43 13-0030 EA 70" Quad Support Backed Perforated Metal Bench (Landscapeforms Petoskey)	2,127.83	85.78
32 33 43 13-0031 EA 72" Backed Wood Bench (Landscapeforms Plainwell)	2,073.15	85.78
32 33 43 13-0032 EA 72" Backed Wood Bench With Center Arm (Landscapeforms Plainwell)	2,297.94	85.78
32 33 43 13-0033 EA 96" Backed Wood Bench (Landscapeforms Plainwell)	2,540.95	85.78
32 33 43 13-0034 EA 96" Backed Wood Bench With Center Arm (Landscapeforms Plainwell)	2,765.73	85.78
32 33 43 13-0035 EA 96" Backed Wood Bench With Two Center Arms (Landscapeforms Plainwell)	2,996.59	85.78
32 33 43 13-0036 EA 72" Backed Aluminum Bench (Landscapeforms Plainwell)	2,638.15	85.78
32 33 43 13-0037 EA 72" Backed Aluminum Bench With Center Arm (Landscapeforms Plainwell)	2,862.94	85.78
32 33 43 13-0038 EA 96" Backed Aluminum Bench (Landscapeforms Plainwell)	3,233.53	85.78
32 33 43 13-0039 EA 96" Backed Aluminum Bench With Center Arm (Landscapeforms Plainwell)	3,470.47	85.78
32 33 43 13-0040 EA 96" Backed Aluminum Bench With Two Center Arms (Landscapeforms Plainwell)	3,689.18	85.78
32 33 43 13-0041 EA Backless Metal Grid Seats For Straight Runs (Landscapeforms Plexus)	601.83	21.45
32 33 43 13-0042 EA Backless Metal Grid Seats For 60 Degree Radius (Landscapeforms Plexus)	808.39	21.45
32 33 43 13-0043 EA Backless Metal Grid Seats For 120 Degree Radius (Landscapeforms Plexus)	808.39	21.45
32 33 43 13-0044 EA Backed Metal Grid Seats For Straight Runs (Landscapeforms Plexus)	735.48	21.45
32 33 43 13-0045 EA Narrow-Backed Metal Grid Seats For 60 Degree Radius (Landscapeforms Plexus)	911.67	21.45
32 33 43 13-0046 EA Narrow-Backed Metal Grid Seats For 120 Degree Radius (Landscapeforms Plexus)	911.67	21.45
32 33 43 13-0047 EA Wide-Backed Metal Grid Seats For 120 Degree Radius (Landscapeforms Plexus)	911.67	21.45
32 33 43 13-0048 EA Armrest For Metal Grid Seats (Landscapeforms Plexus)	182.63	21.45
32 33 43 13-0049 EA Backless Straight Metal Grid Seats (Landscapeforms Presidio)	844.84	21.45
32 33 43 13-0050 EA Backless Straight Metal Grid Seats With One Arm (Landscapeforms Presidio)	935.97	21.45
32 33 43 13-0051 EA Backless Straight Metal Grid Seats With Two Arms (Landscapeforms Presidio)	1,027.10	21.45
32 33 43 13-0052 EA Backless Angled Metal Grid Seats (Landscapeforms Presidio)	1,021.02	21.45
32 33 43 13-0053 EA Backless Angled Metal Grid Seats With One Arm (Landscapeforms Presidio)	1,112.15	21.45
32 33 43 13-0054 EA Backless Angled Metal Grid Seats With Two Arms (Landscapeforms Presidio)	1,203.28	21.45
32 33 43 13-0055 EA Backed Straight Metal Grid Seats (Landscapeforms Presidio)	1,008.87	21.45
32 33 43 13-0056 EA Backed Straight Metal Grid Seats With One Arm (Landscapeforms Presidio)	1,100.00	21.45
32 33 43 13-0057 EA Backed Straight Metal Grid Seats With Two Arms (Landscapeforms Presidio)	1,191.13	21.45
32 33 43 13-0058 EA Narrow-Backed Angled Metal Grid Seats (Landscapeforms Presidio)	1,233.66	21.45
32 33 43 13-0059 EA Narrow-Backed Angled Metal Grid Seats With One Arm (Landscapeforms Presidio)	1,324.79	21.45
32 33 43 13-0060 EA Narrow-Backed Angled Metal Grid Seats With Two Arms (Landscapeforms Presidio)	1,415.92	21.45
32 33 43 13-0061 EA Wide-Backed Angled Metal Grid Seats (Landscapeforms Presidio)	1,233.66	21.45
32 33 43 13-0062 EA Wide-Backed Angled Metal Grid Seats With One Arm (Landscapeforms Presidio)	1,324.79	21.45
32 33 43 13-0063 EA Wide-Backed Angled Metal Grid Seats With Two Arms (Landscapeforms Presidio)	1,415.92	21.45
32 33 43 13-0064 EA 48" Backless Horizontal Strap Bench (Landscapeforms Scarborough)	1,690.40	85.78
32 33 43 13-0065 EA 72" Backless Horizontal Strap Bench (Landscapeforms Scarborough)	1,714.71	85.78
32 33 43 13-0066 EA 96" Backless Horizontal Strap Bench (Landscapeforms Scarborough)	2,085.30	85.78
32 33 43 13-0067 EA 48" Backless Woven Bench (Landscapeforms Scarborough)	2,528.80	85.78
32 33 43 13-0068 EA 72" Backless Woven Bench (Landscapeforms Scarborough)	2,984.44	85.78
32 33 43 13-0069 EA 96" Backless Woven Bench (Landscapeforms Scarborough)	3,415.79	85.78
32 33 43 13-0070 EA 24" Backed Horizontal Strap Bench (Landscapeforms Scarborough)	1,362.34	85.78
32 33 43 13-0071 EA 48" Backed Horizontal Strap Bench (Landscapeforms Scarborough)	1,811.91	85.78
32 33 43 13-0072 EA 72" Backed Horizontal Strap Bench (Landscapeforms Scarborough)	1,854.44	85.78
32 33 43 13-0073 EA 72" Backed Horizontal Strap Bench With Center Arm (Landscapeforms Scarborough)	2,133.90	85.78
32 33 43 13-0074 EA 96" Backed Horizontal Strap Bench (Landscapeforms Scarborough)	2,407.29	85.78
32 33 43 13-0075 EA 96" Backed Horizontal Strap Bench With Center Arm (Landscapeforms Scarborough)	2,692.83	85.78
32 33 43 13-0076 EA 96" Backed Horizontal Strap Bench With Two Intermediate Arms (Landscapeforms Scarborough)	2,972.29	85.78
32 33 43 13-0077 EA 24" Backed Woven Bench (Landscapeforms Scarborough)	2,407.29	85.78
32 33 43 13-0078 EA 48" Backed Woven Bench (Landscapeforms Scarborough)	2,911.54	85.78
32 33 43 13-0079 EA 72" Backed Woven Bench (Landscapeforms Scarborough)	3,403.64	85.78
32 33 43 13-0080 EA 72" Backed Woven Bench With Center Arm (Landscapeforms Scarborough)	3,689.18	85.78
32 33 43 13-0081 EA 96" Backed Woven Bench (Landscapeforms Scarborough)	4,296.71	85.78
32 33 43 13-0082 EA 96" Backed Woven Bench With Center Arm (Landscapeforms Scarborough)	4,576.17	85.78
32 33 43 13-0083 EA 96" Backed Woven Bench With Two Intermediate Arms (Landscapeforms Scarborough)	4,849.56	85.78
32 33 43 13-0084 EA 32" Backed Strap Or Perforated Bench (Landscapeforms Town Square)	1,152.55	75.07
32 33 43 13-0085 EA 49" Backed Strap Or Perforated Bench (Landscapeforms Town Square)	1,389.49	75.07
32 33 43 13-0086 EA 49" Backed Strap Or Perforated Bench With Divider (Landscapeforms Town Square)	1,517.07	75.07
32 33 43 13-0087 EA 70" Backed Strap Or Perforated Bench (Landscapeforms Town Square)	1,775.46	85.78
32 33 43 13-0088 EA 70" Backed Strap Or Perforated Bench With Two Dividers (Landscapeforms Town Square)	2,012.40	85.78



Exterior Improvements		32	32
Site Improvements		32 30	
Site Furnishings		32 33	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 43 13-0089	Benches (Columbia Cascade, TimberForm) (32 33 43 13)			
32 33 43 13-0090	Wood Benches (Columbia Cascade, TimberForm) (32 33 43 13-0089)			
Note: Includes powder coated steel frames.				
32 33 43 13-0091	EA	70" Length, Embedment Mount, 3 x 4 And 3 x 8 Wood Slats Bench (TimberForm 2006-6-E).....	832.16	42.90
32 33 43 13-0092	EA	94" Length, Embedment Mount, 3 x 4 And 3 x 8 Wood Slats Bench (TimberForm 2006-8-E).....	955.58	42.90
32 33 43 13-0093	EA	118" Length, Embedment Mount, 3 x 4 And 3 x 8 Wood Slats Bench (TimberForm 2006-10-E).....	1,227.05	42.90
32 33 43 13-0094	EA	70" Length, Pedestal Mount, 3 x 4 And 3 x 8 Wood Slats Bench (TimberForm 2006-6-P).....	869.21	42.90
32 33 43 13-0095	EA	94" Length, Pedestal Mount, 3 x 4 And 3 x 8 Wood Slats Bench (TimberForm 2006-8-P).....	992.60	42.90
32 33 43 13-0096	EA	118" Length, Pedestal Mount, 3 x 4 And 3 x 8 Wood Slats Bench (TimberForm 2006-10-P).....	1,276.42	42.90
32 33 43 13-0097	EA	70" Length, Embedment Mount, 3 x 4 And 3 x 8 Wood Slats Bench With Straight Back (TimberForm 2016-6-E).....	1,276.42	42.90
32 33 43 13-0098	EA	94" Length, Embedment Mount, 3 x 4 And 3 x 8 Wood Slats Bench With Straight Back (TimberForm 2016-8-E).....	1,486.20	42.90
32 33 43 13-0099	EA	118" Length, Embedment Mount, 3 x 4 And 3 x 8 Wood Slats Bench With Straight Back (TimberForm 2016-10-E).....	1,918.09	42.90
32 33 43 13-0100	EA	70" Length, Pedestal Mount, 3 x 4 And 3 x 8 Wood Slats Bench With Straight Back (TimberForm 2016-6-P).....	1,338.12	42.90
32 33 43 13-0101	EA	94" Length, Pedestal Mount, 3 x 4 And 3 x 8 Wood Slats Bench With Straight Back (TimberForm 2016-8-P).....	1,547.89	42.90
32 33 43 13-0102	EA	118" Length, Pedestal Mount, 3 x 4 And 3 x 8 Wood Slats Bench With Straight Back (TimberForm 2016-10-P).....	2,004.47	42.90
32 33 43 13-0103	EA	70" Length, Embedment Mount, Back-To-Back Double Bench, 3 x 4 And 3 x 8 Wood Slats Benches With Straight Backs (TimberForm 2026-6-E).....	2,473.38	42.90
32 33 43 13-0104	EA	94" Length, Embedment Mount, Back-To-Back Double Bench, 3 x 4 And 3 x 8 Wood Slats Benches With Straight Backs (TimberForm 2026-8-E).....	2,905.27	42.90
32 33 43 13-0105	EA	118" Length, Embedment Mount, Back-To-Back Double Bench, 3 x 4 And 3 x 8 Wood Slats Benches With Straight Backs (TimberForm 2026-10-E).....	3,806.08	42.90
32 33 43 13-0106	EA	70" Length, Pedestal Mount, Back-To-Back Double Bench, 3 x 4 And 3 x 8 Wood Slats Benches With Straight Backs (TimberForm 2026-6-P).....	2,535.08	42.90
32 33 43 13-0107	EA	94" Length, Pedestal Mount, Back-To-Back Double Bench, 3 x 4 And 3 x 8 Wood Slats Benches With Straight Backs (TimberForm 2026-8-P).....	2,966.97	42.90
32 33 43 13-0108	EA	118" Length, Pedestal Mount, Back-To-Back Double Bench, 3 x 4 And 3 x 8 Wood Slats Benches With Straight Backs (TimberForm 2026-10-P).....	3,892.45	42.90
32 33 43 13-0109	EA	70" Length, Embedment Mount, 3 x 4 Wood Slats Concave Bench (TimberForm 2028-6-E).....	967.92	42.90
32 33 43 13-0110	EA	94" Length, Embedment Mount, 3 x 4 Wood Slats Concave Bench (TimberForm 2028-8-E).....	1,091.32	42.90
32 33 43 13-0111	EA	70" Length, Pedestal Mount, 3 x 4 Wood Slats Concave Bench (TimberForm 2028-6-P).....	1,004.94	42.90
32 33 43 13-0112	EA	94" Length, Pedestal Mount, 3 x 4 Wood Slats Concave Bench (TimberForm 2028-8-P).....	1,128.34	42.90
32 33 43 13-0113	EA	46" Length, Embedment Mount, 3 x 4 And 3 x 8 Wood Slats Platform Seat (TimberForm 2044-4-E).....	1,621.93	42.90
32 33 43 13-0114	EA	70" Length, Embedment Mount, 3 x 4 And 3 x 8 Wood Slats Platform Seat (TimberForm 2044-6-E).....	1,918.09	42.90
32 33 43 13-0115	EA	46" Length, Pedestal Mount, 3 x 4 And 3 x 8 Wood Slats Platform Seat (TimberForm 2044-4-P).....	1,720.65	42.90
32 33 43 13-0116	EA	70" Length, Pedestal Mount, 3 x 4 And 3 x 8 Wood Slats Platform Seat (TimberForm 2044-6-P).....	2,016.81	42.90
32 33 43 13-0117	EA	70" Length, Wall Mount, 3 x 4 And 3 x 8 Wood Slats Bench (TimberForm 2045-6).....	1,013.81	64.34
32 33 43 13-0118	EA	94" Length, Wall Mount, 3 x 4 And 3 x 8 Wood Slats Bench (TimberForm 2045-8).....	1,063.17	64.34
32 33 43 13-0119	EA	118" Length, Wall Mount, 3 x 4 And 3 x 8 Wood Slats Bench (TimberForm 2045-10).....	1,445.71	64.34
32 33 43 13-0120	EA	46" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-4-E).....	782.83	42.90
32 33 43 13-0121	EA	70" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-6-E).....	906.23	42.90
32 33 43 13-0122	EA	94" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-8-E).....	1,029.62	42.90
32 33 43 13-0123	EA	118" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-10-E).....	1,325.78	42.90
32 33 43 13-0124	EA	142" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-12-E).....	1,449.18	42.90
32 33 43 13-0125	EA	46" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-4-P).....	795.17	42.90
32 33 43 13-0126	EA	70" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-6-P).....	918.57	42.90
32 33 43 13-0127	EA	94" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-8-P).....	1,041.96	42.90
32 33 43 13-0128	EA	118" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-10-P).....	1,362.80	42.90
32 33 43 13-0129	EA	142" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench (TimberForm 2139-12-P).....	1,486.20	42.90
32 33 43 13-0130	EA	70" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2140-6-E).....	1,350.46	42.90
32 33 43 13-0131	EA	94" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2140-8-E).....	1,560.23	42.90
32 33 43 13-0132	EA	118" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2140-10-E).....	2,016.81	42.90
32 33 43 13-0133	EA	142" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2140-12-E).....	2,226.58	42.90
32 33 43 13-0134	EA	70" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2140-6-P).....	1,375.14	42.90
32 33 43 13-0135	EA	94" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2140-8-P).....	1,584.91	42.90
32 33 43 13-0136	EA	118" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2140-10-P).....	2,053.83	42.90
32 33 43 13-0137	EA	142" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2140-12-P).....	2,263.60	42.90
32 33 43 13-0138	EA	70" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-6-E).....	1,350.46	42.90
32 33 43 13-0139	EA	82" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-7-E).....	1,905.75	42.90
32 33 43 13-0140	EA	94" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-8-E).....	1,695.97	42.90
32 33 43 13-0141	EA	118" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-10-E).....	2,238.92	42.90
32 33 43 13-0142	EA	142" Length, Embedment Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-12-E).....	2,448.70	42.90
32 33 43 13-0143	EA	70" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-6-P).....	1,547.89	42.90
32 33 43 13-0144	EA	82" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-7-P).....	1,942.77	42.90
32 33 43 13-0145	EA	94" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-8-P).....	1,720.65	42.90
32 33 43 13-0146	EA	118" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-10-P).....	2,275.94	42.90
32 33 43 13-0147	EA	142" Length, Pedestal Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2141-12-P).....	2,485.72	42.90
32 33 43 13-0148	EA	70" Length, Wall Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2142-6).....	1,421.03	64.34
32 33 43 13-0149	EA	94" Length, Wall Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2142-8).....	1,643.14	64.34
32 33 43 13-0150	EA	118" Length, Wall Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back (TimberForm 2142-10).....	2,112.06	64.34

32 Exterior Improvements**32 30 Site Improvements****32 33 Site Furnishings**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 43 13-0151	EA	70" Length, Wall Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2143-6)	1,556.77	64.34	
32 33 43 13-0152	EA	94" Length, Wall Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2143-8)	1,778.88	64.34	
32 33 43 13-0153	EA	118" Length, Wall Mount, 3 x 4 Patterned Wood Slats Bench With Contoured Back And Armrests (TimberForm 2143-10)	2,321.83	64.34	
32 33 43 13-0154 Recycled Plastic Benches (Columbia Cascade, TimberForm) (32 33 43 13-0089)					
Note: Includes powder coated steel frames.					
32 33 43 13-0155	EA	70" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Concave Bench (TimberForm 2029-6-E)	1,140.68	42.90	
32 33 43 13-0156	EA	94" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Concave Bench (TimberForm 2029-8-E)	1,560.23	42.90	
32 33 43 13-0157	EA	70" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Concave Bench (TimberForm 2029-6-P)	1,177.70	42.90	
32 33 43 13-0158	EA	94" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Concave Bench (TimberForm 2029-8-P)	1,597.25	42.90	
32 33 43 13-0159	EA	46" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Platform Seat (TimberForm 2041-4-E)	1,794.69	42.90	
32 33 43 13-0160	EA	70" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Platform Seat (TimberForm 2041-6-E)	2,103.19	42.90	
32 33 43 13-0161	EA	46" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Platform Seat (TimberForm 2041-4-P)	1,893.41	42.90	
32 33 43 13-0162	EA	70" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Platform Seat (TimberForm 2041-6-P)	2,201.90	42.90	
32 33 43 13-0163	EA	70" Length, Wall Mount, 3 x 4 Recycled Plastic Slats Bench (TimberForm 2042-6)	1,137.21	64.34	
32 33 43 13-0164	EA	94" Length, Wall Mount, 3 x 4 Recycled Plastic Slats Bench (TimberForm 2042-8)	1,371.67	64.34	
32 33 43 13-0165	EA	118" Length, Wall Mount, 3 x 4 Recycled Plastic Slats Bench (TimberForm 2042-10)	1,618.46	64.34	
32 33 43 13-0166	EA	70" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Bench (TimberForm 2007-6-E)	930.88	42.90	
32 33 43 13-0167	EA	94" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Bench (TimberForm 2007-8-E)	1,251.73	42.90	
32 33 43 13-0168	EA	118" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Bench (TimberForm 2007-10-E)	1,498.53	42.90	
32 33 43 13-0169	EA	70" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Bench (TimberForm 2007-6-P)	967.92	42.90	
32 33 43 13-0170	EA	94" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Bench (TimberForm 2007-8-P)	1,288.76	42.90	
32 33 43 13-0171	EA	118" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Bench (TimberForm 2007-10-P)	1,547.89	42.90	
32 33 43 13-0172	EA	70" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Bench With Straight Back (TimberForm 2017-6-E)	1,486.20	42.90	
32 33 43 13-0173	EA	94" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Bench With Straight Back (TimberForm 2017-8-E)	2,004.47	42.90	
32 33 43 13-0174	EA	118" Length, Embedment Mount, 3 x 4 Recycled Plastic Slats Bench With Straight Back (TimberForm 2017-10-E)	2,436.36	42.90	
32 33 43 13-0175	EA	70" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Bench With Straight Back (TimberForm 2017-6-P)	1,547.89	42.90	
32 33 43 13-0176	EA	94" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Bench With Straight Back (TimberForm 2017-8-P)	2,090.85	42.90	
32 33 43 13-0177	EA	118" Length, Pedestal Mount, 3 x 4 Recycled Plastic Slats Bench With Straight Back (TimberForm 2017-10-P)	2,522.74	42.90	
32 33 43 13-0178	EA	70" Length, Embedment Mount, Back-To-Back Double Bench, 3 x 4 Recycled Plastic Slats Benches With Straight Backs (TimberForm 2027-6-E)	2,905.27	42.90	
32 33 43 13-0179	EA	94" Length, Embedment Mount, Back-To-Back Double Bench, 3 x 4 Recycled Plastic Slats Benches With Straight Backs (TimberForm 2027-8-E)	4,003.51	42.90	
32 33 43 13-0180	EA	118" Length, Embedment Mount, Back-To-Back Double Bench, 3 x 4 Recycled Plastic Slats Benches With Straight Backs (TimberForm 2027-10-E)	4,435.41	42.90	
32 33 43 13-0181	EA	70" Length, Pedestal Mount, Back-To-Back Double Bench, 3 x 4 Recycled Plastic Slats Benches With Straight Backs (TimberForm 2027-6-P)	2,966.97	42.90	
32 33 43 13-0182	EA	94" Length, Pedestal Mount, Back-To-Back Double Bench, 3 x 4 Recycled Plastic Slats Benches With Straight Backs (TimberForm 2027-8-P)	4,089.89	42.90	
32 33 43 13-0183	EA	118" Length, Pedestal Mount, Back-To-Back Double Bench, 3 x 4 Recycled Plastic Slats Benches With Straight Backs (TimberForm 2027-10-P)	4,521.78	42.90	
32 33 43 13-0184	EA	70" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-6-E)	1,819.37	42.90	
32 33 43 13-0185	EA	82" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-7-E)	2,535.08	42.90	
32 33 43 13-0186	EA	94" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-8-E)	2,424.02	42.90	
32 33 43 13-0187	EA	118" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-10-E)	2,781.87	42.90	
32 33 43 13-0188	EA	142" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-12-E)	3,744.38	42.90	
32 33 43 13-0189	EA	70" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-6-P)	1,844.05	42.90	
32 33 43 13-0190	EA	82" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-7-P)	2,572.10	42.90	
32 33 43 13-0191	EA	94" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-8-P)	2,461.04	42.90	
32 33 43 13-0192	EA	118" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-10-P)	2,818.89	42.90	
32 33 43 13-0193	EA	142" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2155-12-P)	3,806.08	42.90	
32 33 43 13-0194	EA	70" Length, Wall Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2154-6)	1,729.52	64.34	
32 33 43 13-0195	EA	94" Length, Wall Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2154-8)	2,334.17	64.34	
32 33 43 13-0196	EA	118" Length, Wall Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2154-10)	2,889.46	64.34	
32 33 43 13-0197	EA	70" Length, Wall Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2156-6)	1,939.30	64.34	
32 33 43 13-0198	EA	94" Length, Wall Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2156-8)	2,593.31	64.34	
32 33 43 13-0199	EA	118" Length, Wall Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back And Armrests (TimberForm 2156-10)	2,852.44	64.34	
32 33 43 13-0200	EA	46" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-4-E)	832.19	42.90	
32 33 43 13-0201	EA	70" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-6-E)	1,091.32	42.90	
32 33 43 13-0202	EA	94" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-8-E)	1,473.86	42.90	
32 33 43 13-0203	EA	118" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-10-E)	1,732.99	42.90	
32 33 43 13-0204	EA	142" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-12-E)	2,016.81	42.90	
32 33 43 13-0205	EA	46" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-4-P)	856.87	42.90	



Exterior Improvements		32	32
Site Improvements		32 30	
Site Furnishings		32 33	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 43 13-0206 EA 70" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-6-P).....	1,116.00	42.90
32 33 43 13-0207 EA 94" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-8-P).....	1,510.88	42.90
32 33 43 13-0208 EA 118" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-10-P).....	1,770.01	42.90
32 33 43 13-0209 EA 142" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench (TimberForm 2151-12-P).....	2,066.17	42.90
32 33 43 13-0210 EA 70" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2153-6-E)	1,621.93	42.90
32 33 43 13-0211 EA 94" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2153-8-E)	2,226.58	42.90
32 33 43 13-0212 EA 118" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2153-10-E).....	2,744.85	42.90
32 33 43 13-0213 EA 142" Length, Embedment Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2153-12-E).....	3,090.37	42.90
32 33 43 13-0214 EA 70" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2153-6-P)	1,646.61	42.90
32 33 43 13-0215 EA 94" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2153-8-P)	2,263.60	42.90
32 33 43 13-0216 EA 118" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2153-10-P).....	2,781.87	42.90
32 33 43 13-0217 EA 142" Length, Pedestal Mount, 3 x 4 Patterned Recycled Plastic Slats Bench With Contoured Back (TimberForm 2153-12-P).....	3,139.73	42.90

32 33 63 Skate Board Deterrent (32 33)

32 33 63 00-0001 Skate Stoppers (32 33 63)

32 33 63 00-0002 EA Aluminum Architectural Series Pieces, Skate Stopper	60.76	
Note: Various shapes. Includes drilling and anchoring into suitable surface material.		
For >59 To 99, Deduct	-6.58	
For >99 To 249, Deduct	-8.29	
For >249, Deduct	-10.01	
32 33 63 00-0003 EA Aluminum Fixed Angle Series Pieces, Skate Stopper	64.21	
Note: Various shapes. Includes drilling and anchoring into suitable surface material.		
For >59 To 99, Deduct	-7.06	
For >99 To 249, Deduct	-8.88	
For >249, Deduct	-10.70	
32 33 63 00-0004 EA Aluminum Fixed Radius Series Pieces, Skate Stopper	45.08	
Note: Various shapes. Includes drilling and anchoring into suitable surface material.		
For >59 To 99, Deduct	-4.38	
For >99 To 249, Deduct	-5.63	
For >249, Deduct	-6.87	
32 33 63 00-0005 EA Aluminum Bench Clips, Skate Stopper.....	36.02	
Note: Various shapes. Includes drilling and anchoring into suitable surface material.		
For >59 To 99, Deduct	-3.11	
For >99 To 249, Deduct	-4.09	
For >249, Deduct	-5.06	
32 33 63 00-0006 EA Aluminum Curve Clips, Skate Stopper.....	39.37	
Note: Various shapes. Includes drilling and anchoring into suitable surface material.		
For >59 To 99, Deduct	-3.58	
For >99 To 249, Deduct	-4.66	
For >249, Deduct	-5.73	
32 33 63 00-0007 EA Aluminum Hand Rail, Skate Stopper	37.71	
Note: Various shapes. Includes drilling and anchoring into suitable surface material.		
For >59 To 99, Deduct	-3.35	
For >99 To 249, Deduct	-4.37	
For >249, Deduct	-5.40	
32 33 63 00-0008 EA Aluminum 2" x 3" x 0.25" Flat Cap, Skate Stopper	35.46	
Note: Includes drilling and anchoring into suitable surface material.		
For >59 To 99, Deduct	-3.03	
For >99 To 249, Deduct	-3.99	
For >249, Deduct	-4.95	
32 33 63 00-0009 EA Aluminum 6" Diameter x 0.25" Rumble Disc, Skate Stopper	49.46	
Note: Includes drilling and anchoring into suitable surface material.		
For >59 To 99, Deduct	-4.99	
For >99 To 249, Deduct	-6.37	
For >249, Deduct	-7.75	
32 33 63 00-0010 EA Aluminum 4" x 17" x 0.25" Flat Strap, Skate Stopper	91.48	
Note: Includes drilling and anchoring into suitable surface material.		
For >59 To 99, Deduct	-10.88	
For >99 To 249, Deduct	-13.51	
For >249, Deduct	-16.15	

32 39 Manufactured Site Specialties (32 30)

Note: Excludes coredrilling, augering, concrete footing and compaction See CSI section 02 41 19 13-0027 for concrete core drilling, 02 41 19 13-0165 for asphalt core drilling, 32 31 13 13-0002 for augering, 32 31 13 13-0019 for concrete footing, 32 31 13 13-0045 for compaction of earth.

32 39 13 Manufactured Metal Bollards (32 39)

32 39 13 00-0001 Metal Pipe Bollards (32 39 13)

Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill for post and post holes.

32 39 13 00-0002 Steel Pipe Bollard, Schedule 40 Pipe, Painted Or Powered Coated (32 39 13 00-0001)

32 Exterior Improvements**32 30 Site Improvements****32 39 Manufactured Site Specialties**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 39 13 00-0003	LF	4" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated.....	80.21	12.46
		For Galvanized Steel, Add	9.40	
		For 304 Stainless Steel, Add	74.61	
		For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	123.76	
		For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add	87.80	
		For Schedule 80, Add	10.78	
		For Concrete Fill, Add Per LF Of Pipe Bollard	11.01	
32 39 13 00-0004	LF	6" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated.....	112.12	12.46
		For Galvanized Steel, Add	14.82	
		For 304 Stainless Steel, Add	117.69	
		For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	123.76	
		For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add	87.80	
		For Schedule 80, Add	15.57	
		For Concrete Fill, Add Per LF Of Pipe Bollard	15.70	
32 39 13 00-0005	LF	8" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated.....	160.47	15.59
		For Galvanized Steel, Add	21.98	
		For 304 Stainless Steel, Add	174.56	
		For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	162.68	
		For Each Sleeve For Removable, Lockable Bollard, Add	130.50	
		For Schedule 80, Add	22.51	
		For Concrete Fill, Add Per LF Of Pipe Bollard	20.96	
32 39 13 00-0006	LF	10" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated.....	214.30	18.70
		For Galvanized Steel, Add	30.07	
		For 304 Stainless Steel, Add	238.82	
		For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	187.60	
		For Each Sleeve For Removable, Lockable Bollard, Add	142.96	
		For Schedule 80, Add	30.28	
		For Concrete Fill, Add Per LF Of Pipe Bollard	25.71	
32 39 13 00-0007	LF	12" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated.....	269.41	24.94
		For Galvanized Steel, Add	37.32	
		For 304 Stainless Steel, Add	296.38	
		For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	258.48	
		For Each Sleeve For Removable, Lockable Bollard, Add	196.61	
		For Schedule 80, Add	37.92	
		For Concrete Fill, Add Per LF Of Pipe Bollard	30.14	

32 39 23 Manufactured Concrete Bollards (32 39)

32 39 23 00-0001		Concrete Bollards (32 39 23) Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any.		
32 39 23 00-0002		Concrete Bollard, Exposed Aggregate (32 39 23 00-0001)		
32 39 23 00-0003	EA	12" x 12" x 30" High Concrete Bollard, Light Media Blast.....	760.66	99.74
		Note: Surface mounted with anchor bolts embedded into grout pockets.		
32 39 23 00-0004	EA	12" Diameter x 30" High Concrete Bollard, Light Media Blast.....	760.66	99.74
		Note: Surface mounted with anchor bolts embedded into grout pockets.		

32 39 25 Manufactured Wood Bollards (32 39)

32 39 25 00-0001		Wood Bollards (32 39 25) Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.		
32 39 25 00-0002		Wood Bollard, Pressure Treated Timber (32 39 25 00-0001)		
32 39 25 00-0003	LF	4" x 4", Pressure Treated Wood Bollard	22.95	9.98
		For Each Sleeve For Removable, Lockable Bollard, Add	86.92	
32 39 25 00-0004	LF	6" x 6", Pressure Treated Wood Bollard	26.11	9.98
		For Each Sleeve For Removable, Lockable Bollard, Add	86.92	
32 39 25 00-0005	LF	8" x 8", Pressure Treated Wood Bollard	33.40	11.22
		For Each Sleeve For Removable, Lockable Bollard, Add	130.08	
32 39 25 00-0006	LF	10" x 10", Pressure Treated Wood Bollard	47.01	14.96
		For Each Sleeve For Removable, Lockable Bollard, Add	145.04	
32 39 25 00-0007	LF	12" x 12", Pressure Treated Wood Bollard	64.50	19.95
		For Each Sleeve For Removable, Lockable Bollard, Add	200.89	

32 39 27 Manufactured Plastic Bollards (32 39)

32 39 27 00-0001		Plastic Bollards (32 39 27) See CSI section 32 31 13 13-0001 for augering and filling holes for bollards.		
32 39 27 00-0002		Recycled Plastic Bollards (32 39 27 00-0001)		
32 39 27 00-0003	EA	6" x 6" x 33" Surface Mounted Recycled Plastic Bollard.....	337.18	49.87
		Note: Includes anchor bolts.		
32 39 27 00-0004	EA	6" Diameter x 6" Steel Reinforced Recycled Plastic Bollard.....	548.56	49.87
32 39 27 00-0005		Plastic Bollard Covers (32 39 27 00-0001)		
32 39 27 00-0006	EA	4" x 60", 1/8" Thick LDPE Bollard Cover, Fits 4" To 4-1/2" Pipe.....	83.78	10.50
		For Reflective Tape, Add	9.97	
32 39 27 00-0007	EA	6" x 60", 1/8" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe.....	90.49	11.55
		For Reflective Tape, Add	9.97	
32 39 27 00-0008	EA	3" x 60", 1/4" Thick LDPE Bollard Cover, Fits 3" To 3 1/2" Pipe.....	115.18	10.50
		For Reflective Tape, Add	9.97	



Exterior Improvements			32
Site Improvements			32 30
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 39 27 00-0009	EA	3-1/2" x 52", 1/4" Thick LDPE Bollard Cover, Fits 3 -1/2" To 4" Pipe		115.18	10.50
		For Reflective Tape, Add	.....	9.97	
32 39 27 00-0010	EA	3-1/2" x 68", 1/4" Thick LDPE Bollard Cover, Fits 3-1/2" To 4" Pipe	.....	129.83	10.50
		For Reflective Tape, Add	.....	9.97	
32 39 27 00-0011	EA	4" x 52", 1/4" Thick LDPE Bollard Cover, Fits 4' To 4-1/2" Pipe	.....	115.18	10.50
		For Reflective Tape, Add	.....	9.97	
32 39 27 00-0012	EA	4" x 60", 1/4" Thick LDPE Bollard Cover, Fits 4" To 4-1/2" Pipe	.....	117.27	10.50
		For Reflective Tape, Add	.....	9.97	
32 39 27 00-0013	EA	5" x 52", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe	.....	115.18	10.50
		For Reflective Tape, Add	.....	9.97	
32 39 27 00-0014	EA	5" x 60", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe	.....	117.27	10.50
		For Reflective Tape, Add	.....	9.97	
32 39 27 00-0015	EA	5" x 72", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe	.....	165.41	10.50
		For Reflective Tape, Add	.....	9.97	
32 39 27 00-0016	EA	6" x 52", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe	.....	117.27	11.55
		For Reflective Tape, Add	.....	9.97	
32 39 27 00-0017	EA	6" x 65", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe	.....	150.76	11.55
		For Reflective Tape, Add	.....	9.97	
32 39 27 00-0018	EA	6" x 84", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe	.....	172.12	11.55
		For Reflective Tape, Add	.....	9.97	
32 39 27 00-0019	EA	7" x 56", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe	.....	144.48	12.61
		For Reflective Tape, Add	.....	9.97	
32 39 27 00-0020	EA	8" x 52", 1/4" Thick LDPE Bollard Cover, Fits 7" To 7-5/16" Pipe	.....	157.04	12.61
		For Reflective Tape, Add	.....	9.97	
32 39 27 00-0021	EA	8" x 69", 1/4" Thick LDPE Bollard Cover, Fits 8" To 8-5/8" Pipe	.....	157.04	12.61
		For Reflective Tape, Add	.....	9.97	
32 39 27 00-0022	EA	10" x 69", 1/4" Thick LDPE Bollard Cover, Fits 10" To 11" Pipe	.....	213.58	12.61
		For Reflective Tape, Add	.....	9.97	

32 39 29 Manufactured Stone Bollards (32 39)**32 39 29 00-0001 Stone Bollards (32 39 29)****32 39 29 00-0002 Granite Bollards (32 39 29 00-0001)**

32 39 29 00-0003	EA	16" x 16" x 30" Granite Bollard, Smooth Matt Finish		1,206.42	124.68
		Note: Surface mounted with anchors embedded into grout pockets.			
32 39 29 00-0004	EA	16" x 16" x 54" Granite Bollard, Smooth Matt Finish	.....	1,532.38	174.55
		Note: Surface mounted with anchors embedded into grout pockets.			
32 39 29 00-0005	EA	12" x 12" x 24" Granite Bollard, Rough Finish, Pyramid Top	.....	760.95	124.68
		Note: Surface mounted with anchors embedded into grout pockets.			
32 39 29 00-0006	EA	12" Diameter x 18" Granite Bollard, Smooth Matt Finish	.....	1,104.34	99.74
		Note: Flat Top, surface mounted with anchors embedded into grout pockets.			
32 39 29 00-0007	EA	24" x 24" x 20" Granite Bollard, Octagonal Cross Section	.....	1,635.08	99.74
		Note: Smooth matt finish, flat top, surface mounted with anchors embedded into grout pockets.			

32 80 Irrigation (32)**32 84 Planting Irrigation (32 80)****32 84 13 Drip Irrigation (32 84)****32 84 13 00-0001 Drip Emitter Irrigation Devices (32 84 13)****32 84 13 00-0002 Drip Emitter Irrigation Valves (32 84 13 00-0001)**

32 84 13 00-0003	EA	1/2" Air/Vacuum Relief Valve For Drip Emitter Irrigation Systems (Rain Bird® ARV050)		58.34	14.79
32 84 13 00-0004	EA	1", Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LFV100)		85.13	14.79
32 84 13 00-0005	EA	3/4", Anti-Siphon, Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LFV075)		83.26	14.79
32 84 13 00-0006	EA	3/4", Latching Solenoid, Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LFV075TBOS)		108.43	14.79

32 84 13 00-0007 Drip Emitter Irrigation Filters (32 84 13 00-0001)

32 84 13 00-0008	EA	3/4" Inlet/Outlet, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® QKCHK-075)		161.62	14.79
32 84 13 00-0009	EA	1" Inlet/Outlet, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® QKCHK-100)	.....	163.00	14.79
32 84 13 00-0010	EA	3/4" Inlet/Outlet, Inline Wye Filter For Drip Emitter Irrigation Systems (Rain Bird® RBY075MPTX)	.....	70.04	14.79
32 84 13 00-0011	EA	1" Inlet/Outlet, Inline Wye Filter For Drip Emitter Irrigation Systems (Rain Bird® RBY100MPTX)	.....	71.15	14.79
32 84 13 00-0012	EA	1" Inlet/Outlet, Pressure Regulating, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® PRB-QCHK-100)	.....	174.51	14.79
32 84 13 00-0013	EA	3/4" Inlet/Outlet, Pressure Regulating, Inline RBY Filter For Drip Emitter Irrigation Systems (Rain Bird® PRF075RBY)	.....	86.70	14.79
32 84 13 00-0014	EA	1" Inlet/Outlet, Pressure Regulating, Inline RBY Filter For Drip Emitter Irrigation Systems (Rain Bird® PRF100RBY)	.....	95.38	14.79

32 84 13 00-0015 Drip Emitter Irrigation Pressure Regulators (32 84 13 00-0001)

32 84 13 00-0016	EA	3/4", 6 To 300 GPH, 30 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-L30X-075)		68.92	14.79
32 84 13 00-0017	EA	3/4", 120 To 600 GPH, 30 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M30X-075)	.....	68.92	14.79
32 84 13 00-0018	EA	3/4", 120 To 600 GPH, 40 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M40X-075)	.....	68.92	14.79

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 13 00-0019	EA	1", 120 To 900 GPH, 40 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M40X-100).....	78.04	14.79
32 84 13 00-0020		Drip Emitter Irrigation Tubing (32 84 13 00-0001) Note: Includes surface installation and covering of tubing with existing pine straw, pine bark etc.		
32 84 13 00-0021	LF	1/4", Landscape Dripline With Extruded Non-Pressure Compensating Drip Emitters (Rain Bird® LDQ0806100).....	5.23	2.07
32 84 13 00-0022	LF	1/2", Landscape Dripline With Extruded Pressure Compensating Drip Emitters (Rain Bird® XFD0612100).....	5.05	2.36
32 84 13 00-0023	LF	1/4", UV-Resistant, Polyethylene, Distribution Tubing For Drip Emitter Irrigation Systems (Rain Bird® XQ100).....	4.34	2.07
		<i>For Shallow Trenching And Backfill By Hand, Add</i>	8.50	
32 84 13 00-0024	LF	1/2", UV-Resistant, Polyethylene, Distribution Tubing For Drip Emitter Irrigation Systems (Rain Bird® XT700100).....	5.03	2.36
		<i>For Shallow Trenching And Backfill By Hand, Add</i>	9.20	
32 84 13 00-0025		Drip Emitter Irrigation Fittings (32 84 13 00-0001)		
32 84 13 00-0026	EA	1/4", Barbed Coupling For Irrigation Tubing (Rain Bird® XBF1CONN)	3.87	
32 84 13 00-0027	EA	1/4", Barbed Elbow For Irrigation Tubing (Rain Bird® XBF2EL)	3.90	
32 84 13 00-0028	EA	1/4", Barbed Tee For Irrigation Tubing (Rain Bird® XBF3TEE)	3.95	
32 84 13 00-0029	EA	1/4", Self Piercing Barbed Coupling For Irrigation Tubing (Rain Bird® SPB025)	4.11	
32 84 13 00-0030	EA	1/4", Plug For Irrigation Tubing (Rain Bird® EMAGPX)	3.84	
32 84 13 00-0031	EA	17mm, Barbed Coupling For Irrigation Tubing (Rain Bird® XFFCOUP)	4.03	
		<i>For Compression Fitting, Add</i>	0.33	
32 84 13 00-0032	EA	17mm, Barbed Elbow For Irrigation Tubing (Rain Bird® XFF-ELBOW)	4.13	
		<i>For Compression Fitting, Add</i>	0.43	
32 84 13 00-0033	EA	17mm, Barbed Tee For Irrigation Tubing (Rain Bird® XFF-TEE)	4.17	
		<i>For Compression Fitting, Add</i>	0.47	
32 84 13 00-0034	EA	17mm, Barbed Male Adapter For Irrigation Tubing (Rain Bird® XFFMA050)	4.20	
		<i>For Compression Fitting, Add</i>	0.50	
32 84 13 00-0035	EA	17mm, Barbed Cross For Irrigation Tubing (Rain Bird® XFDCROSS)	4.40	
		<i>For Compression Fitting, Add</i>	0.70	
32 84 13 00-0036	EA	1/2", Plug For Irrigation Tubing (Rain Bird® MDCFCAP)	4.62	
32 84 13 00-0037	EA	12 Gauge, Galvanized Stake For Irrigation Tubing (Rain Bird® TDS050BEND)	2.29	
32 84 13 00-0038		Drip Emitters (32 84 13 00-0001)		
32 84 13 00-0039	EA	0.5 To 2 GPH, Single Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® XB20PC)	7.90	
32 84 13 00-0040	EA	5 To 24 GPH, Single Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® PC24)	8.78	
32 84 13 00-0041	EA	0.5 To 2 GPH, Six Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® XB056)	17.35	
32 84 13 00-0042		Drip Emitter Irrigation Micro-Bubblers, Sprays And Mistors (32 84 13 00-0001)		
32 84 13 00-0043	EA	Adjustable Stream Bubbler With Spike For Drip Emitter Irrigation Systems (Rain Bird® SXB360SPYK)	30.95	13.31
32 84 13 00-0044	EA	Adjustable Micro Spray With Spike For Drip Emitter Irrigation Systems (Rain Bird® XS360TSPYK)	31.00	13.31
32 84 13 00-0045	EA	12" Height, Riser Assembly With Pressure Compensating Nozzle For Drip Emitter Irrigation Systems (Rain Bird® SQADP12 With SQFUL)	33.44	13.31
32 84 13 00-0046	EA	24" Height, Riser Assembly With Pressure Compensating Nozzle For Drip Emitter Irrigation Systems (Rain Bird® SQADP24 With SQFUL)	33.70	13.31
32 84 13 00-0047	EA	4" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP-400X With SQFUL)	47.90	17.45
		Note: Includes nozzle.		
32 84 13 00-0048	EA	6" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP-600X With SQFUL)	51.06	17.45
		Note: Includes nozzle.		
32 84 13 00-0049	EA	12" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP1200X With SQFUL)	49.55	17.45
		Note: Includes nozzle.		
32 84 13 00-0050		Subsurface Drip Emitter Irrigation Tubing (Rain Bird® XFS) (32 84 13 00-0001) Note: Brown or purple tubing. Includes layout, trenching 4" to 6", installing tubing and backfilling trench.		
32 84 13 00-0051	LF	0.536" ID, 0.634" OD, Subsurface Drip Emitter Irrigation Tubing (Rain Bird® XFS Copper Shield)	5.77	2.58
32 84 23		Underground Sprinklers (32 84)		
32 84 23 00-0001		Sprinkler Heads (32 84 23)		
32 84 23 00-0002		Spray Sprinkler Heads (32 84 23 00-0001) Note: Includes plastic riser and case. Includes spray, variable arc or bubbler nozzle with partial or full circle coverage.		
32 84 23 00-0003	EA	2" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1802P)	42.62	16.33
		<i>For Rotary Nozzle, Add</i>	3.25	
32 84 23 00-0004	EA	4" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1804P)	40.83	16.33
		<i>For Rotary Nozzle, Add</i>	3.25	
32 84 23 00-0005	EA	6" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1806P)	47.46	16.33
		<i>For Rotary Nozzle, Add</i>	3.25	
32 84 23 00-0006	EA	12" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1812P)	53.01	16.33
		<i>For Rotary Nozzle, Add</i>	3.25	
32 84 23 00-0007	EA	4" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1804-SAM)	43.33	16.33
		<i>For Rotary Nozzle, Add</i>	3.25	
32 84 23 00-0008	EA	6" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1806-SAM)	52.66	16.33
		<i>For Rotary Nozzle, Add</i>	3.25	



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0009	EA	12" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1812-SAM) <i>For Rotary Nozzle, Add</i>	57.15 3.25	16.33
32 84 23 00-0010	EA	4" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1804-PRS)..... <i>For Rotary Nozzle, Add</i>	45.98 3.25	16.33
32 84 23 00-0011	EA	6" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1806-PRS)..... <i>For Rotary Nozzle, Add</i>	54.49 3.25	16.33
32 84 23 00-0012	EA	12" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1812-PRS)..... <i>For Rotary Nozzle, Add</i>	58.69 3.25	16.33
32 84 23 00-0013	EA	4" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1804-SAM-PRS)..... <i>For Rotary Nozzle, Add</i>	47.05 3.25	16.33
32 84 23 00-0014	EA	6" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1806-SAM-PRS)..... <i>For Rotary Nozzle, Add</i>	60.10 3.25	16.33
32 84 23 00-0015	EA	12" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1812-SAM-PRS)..... <i>For Rotary Nozzle, Add</i>	64.24 3.25	16.33
32 84 23 00-0016	EA	Bubbler Head With Screen, 1/2" NPT (Rain Bird® 1300) <i>For Rotary Nozzle, Add</i>	37.35 3.25	16.33
32 84 23 00-0017	EA	Pressure Compensating Bubbler With Screen, 1/2" NPT (Rain Bird® 1400)	41.49	16.33
32 84 23 00-0018		Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0001) Note: Maximum spacing is equivalent to maximum radius.		
32 84 23 00-0019		1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0018) Note: Includes plastic riser and case, standard rubber cover and nozzle with partial or full circle coverage.		
32 84 23 00-0020	EA	4" Pop-Up Height, 1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 3504PC) <i>For Non-Potable Cover, Add</i>	55.73 2.00	16.33
32 84 23 00-0021	EA	4" Pop-Up Height, 1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 3504-PC-SAM)..... <i>For Non-Potable Cover, Add</i>	57.21 2.00	16.33
32 84 23 00-0022		3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0018) Note: Includes plastic riser and case, standard rubber cover and nozzle with partial or full circle coverage.		
32 84 23 00-0023	EA	4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 5004-PLPC)..... <i>For Non-Potable Cover, Add</i> <i>For Stainless Steel Riser, Add</i>	52.19 2.00 9.00	16.33
32 84 23 00-0024	EA	6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 5006-PLPC)..... <i>For Non-Potable Cover, Add</i> <i>For Stainless Steel Riser, Add</i>	68.14 2.00 9.00	16.33
32 84 23 00-0025	EA	4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5004-PLPCS) <i>For Non-Potable Cover, Add</i> <i>For Stainless Steel Riser, Add</i>	55.14 2.00 9.00	16.33
32 84 23 00-0026	EA	6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5006-PLPCS) <i>For Non-Potable Cover, Add</i> <i>For Stainless Steel Riser, Add</i>	70.50 2.00 9.00	16.33
32 84 23 00-0027	EA	4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Pressure Regulator (Rain Bird® 5004+PCR)..... <i>For Non-Potable Cover, Add</i> <i>For Stainless Steel Riser, Add</i>	56.32 2.00 9.00	16.33
32 84 23 00-0028	EA	4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5004+FCSR)..... <i>For Non-Potable Cover, Add</i> <i>For Stainless Steel Riser, Add</i>	58.69 2.00 9.00	16.33
32 84 23 00-0029	EA	6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5006+PCSR)..... <i>For Non-Potable Cover, Add</i> <i>For Stainless Steel Riser, Add</i>	74.05 2.00 9.00	16.33
32 84 23 00-0030	EA	12" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5012+PCSR)..... <i>For Non-Potable Cover, Add</i> <i>For Stainless Steel Riser, Add</i>	83.50 2.00 9.00	16.33
32 84 23 00-0031	EA	Shrub Type, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5000S-PLPCS)..... <i>For Non-Potable Cover, Add</i>	58.39 2.00	16.33
32 84 23 00-0032	EA	Shrub Type, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5000S+PCSR)..... <i>For Non-Potable Cover, Add</i>	67.84 2.00	16.33
32 84 23 00-0033		1" Inlet, Up To 65' Spacing, Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0018) Note: Includes plastic riser and case, standard rubber cover, check valve and nozzle with partial or full circle coverage.		
32 84 23 00-0034	EA	4" Pop-Up Height, 1" Inlet, Up To 65' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® F4PC) <i>For Non-Potable Cover, Add</i> <i>For Stainless Steel Riser, Add</i> <i>For Stainless Steel Riser And High Speed Rotor, Add</i>	90.29 2.00 9.00 43.48	16.33
32 84 23 00-0035		1" Inlet, Up To 80' Spacing, Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0018) Note: Includes plastic riser and case, standard rubber cover, check valve and nozzle with partial or full circle coverage.		

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0036	EA	5" Pop-Up Height, 1" Inlet, Up To 80' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 8005) <i>For Non-Potable Cover, Add</i> <i>For Stainless Steel Riser, Add</i>	124.56 2.00 9.00	16.33
32 84 23 00-0037		Impact-Drive Sprinkler Heads (32 84 23 00-0001) Note: Includes partial or full circle coverage. Maximum spacing is equivalent to maximum radius.		
32 84 23 00-0038	EA	1/2" Inlet, Up To 45' Spacing, Pop-Up, Impact-Drive Rotary Sprinkler Head (Rain Bird® 2045A-08)..... <i>For Non-Potable Cover, Add</i>	73.75 2.00	16.33
32 84 23 00-0039	EA	1/2" Inlet, Up To 45' Spacing, Riser Mounted, Plastic Body, Impact-Drive Sprinkler Head (Rain Bird® 2045-PJ08).....	59.57	16.33
32 84 23 00-0040	EA	3/4" Inlet, Up To 51' Spacing, Riser Mounted, Brass/Bronze Body, Impact-Drive Sprinkler Head (Rain Bird® 35A- ADJ-TNTB).....	106.81	16.33
32 84 23 00-0041		Electric Remote Control Irrigation Valves (32 84 23)		
32 84 23 00-0042		0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valves (Rain Bird® DV Series) (32 84 23 00-0041) Note: 15 to 150 PSI.		
32 84 23 00-0043	EA	3/4", 0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 75DV).....	179.63	68.07
32 84 23 00-0044	EA	1", 0.2 To 40 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100DV).....	179.63	68.07
32 84 23 00-0045	EA	1", 0.2 To 40 GPM, Slip-On, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100DVSS).....	199.08	77.59
32 84 23 00-0046	EA	1", 0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Angle Valve (Rain Bird® 100DVA).....	180.81	68.07
32 84 23 00-0047		0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valves With Flow Control (Rain Bird® DVF Series) (32 84 23 00-0041) Note: 15 to 150 PSI.		
32 84 23 00-0048	EA	1", 0.2 To 40 GPM, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVF).....	180.81	68.07
32 84 23 00-0049	EA	1", 0.2 To 40 GPM, Slip-On, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVFSS).....	200.85	77.59
32 84 23 00-0050	EA	1", 0.2 To 40 GPM, Male x Barb, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVFMB).....	202.03	77.59
32 84 23 00-0051		0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves (Rain Bird® PEB Series) (32 84 23 00-0041) Note: 20 to 200 PSI.		
32 84 23 00-0052	EA	1", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100PEB).....	275.34	68.07
32 84 23 00-0053	EA	1-1/2", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 150PEB).....	316.70	68.07
32 84 23 00-0054	EA	2", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 200PEB).....	369.87	68.07
32 84 23 00-0055		5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves With Pressure Regulator (Rain Bird® PEB PRS-D Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0056	EA	1", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 100PEB PRS-D).....	382.87	76.51
32 84 23 00-0057	EA	1-1/2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 150PEB PRS-D).....	424.23	76.51
32 84 23 00-0058	EA	2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 200PEB PRS-D).....	477.40	76.51
32 84 23 00-0059		20 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves With Pressure Regulator And Scrubber Valve (Rain Bird® PESB PRS-D Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0060	EA	1", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 100PESB PRS-D).....	441.95	76.51
32 84 23 00-0061	EA	1-1/2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 150PESB PRS-D).....	483.31	76.51
32 84 23 00-0062	EA	2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 200PESB PRS-D).....	536.48	76.51
32 84 23 00-0063		0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves (Hunter IBV Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure.		
32 84 23 00-0064	EA	1", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-101G-B).....	392.97	68.07
32 84 23 00-0065	EA	1-1/2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-151G-B).....	583.10	68.07
32 84 23 00-0066	EA	2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-201G-B).....	600.29	68.07
32 84 23 00-0067	EA	3", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-301G-B).....	1,375.09	91.90
32 84 23 00-0068		5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves (Rain Bird® EFB-CP Series) (32 84 23 00-0041) Note: 15 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0069	EA	1", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 100EFB-CP).....	370.05	76.51



Exterior Improvements		32	32
Irrigation		32 80	
Planting Irrigation		32 84	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0070	EA	1-1/4", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 125EFB-CP).....	426.59	76.51
32 84 23 00-0071	EA	1-1/2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 150EFB-CP).....	487.98	76.51
32 84 23 00-0072	EA	2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 200EFB-CP).....	568.80	76.51
32 84 23 00-0073		0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves (Hunter IBV FS Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.		
32 84 23 00-0074	EA	1", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-101G-B-FS).....	476.33	76.51
32 84 23 00-0075	EA	1-1/2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-151G-B-FS).....	701.91	76.51
32 84 23 00-0076	EA	2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-201G-B-FS).....	721.24	76.51
32 84 23 00-0077	EA	3", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-301G-B-FS).....	1,458.15	76.51
32 84 23 00-0078		0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV ACCU-SYNC Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.		
32 84 23 00-0079	EA	1", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-101G-B ACCU-SYNC-ADJ).....	478.90	68.07
32 84 23 00-0080	EA	1-1/2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-151G-B ACCU-SYNC-ADJ).....	669.03	68.07
32 84 23 00-0081	EA	2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-201G-B ACCU-SYNC-ADJ).....	686.22	68.07
32 84 23 00-0082	EA	3", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-301G-B ACCU-SYNC-ADJ).....	1,461.02	91.90
32 84 23 00-0083		5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves With Pressure Regulator (Rain Bird® EFB-CP PRS-D Series) (32 84 23 00-0041) Note: 15 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0084	EA	1", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 100EFB-CP PRS-D).....	458.67	76.51
32 84 23 00-0085	EA	1-1/4", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 125EFB-CP PRS-D).....	515.21	76.51
32 84 23 00-0086	EA	1-1/2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 150EFB-CP PRS-D).....	576.60	76.51
32 84 23 00-0087	EA	2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 200EFB-CP PRS-D).....	657.42	76.51
32 84 23 00-0088		0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV FS ACCU-SYNC Series) (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.		
32 84 23 00-0089	EA	1", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-101G-B-FS ACCU-SYNC-ADJ).....	562.26	76.51
32 84 23 00-0090	EA	1-1/2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-151G-B-FS ACCU-SYNC-ADJ).....	787.84	76.51
32 84 23 00-0091	EA	2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-201G-B-FS ACCU-SYNC-ADJ).....	807.18	76.51
32 84 23 00-0092	EA	3", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-301G-B-FS ACCU-SYNC-ADJ).....	1,544.08	76.51
32 84 23 00-0093		Other Electric Remote Control Valves/Accessories (32 84 23 00-0041)		
32 84 23 00-0094	EA	Pressure Regulator Module For Electric Remote Control Valves (Rain Bird® PRS-DIAL).....	143.07	
32 84 23 00-0095		Remote Control Valve Assemblies (32 84 23 00-0041) Note: Includes excavation and disposal of soil, installation of 6" minimum depth gravel or crushed rock, woven wire cloth, valve, fittings, valve box (Carson 1419-12), as detailed in the Caltrans Standard Plans 2010 page 224.		
32 84 23 00-0096	EA	1" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12).....	602.89	170.18
32 84 23 00-0097	EA	1-1/2" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12).....	644.25	170.18
32 84 23 00-0098	EA	2" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12).....	697.42	170.18
32 84 23 00-0099	EA	1" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12).....	661.98	170.18
32 84 23 00-0100	EA	Note: Purple components for use with recycled water 1-1/2" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12).....	703.33	170.18
		Note: Purple components for use with recycled water		

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0101	EA	2" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12).....	756.50	170.18	
Note: Purple components for use with recycled water					
32 84 23 00-0102	EA	1" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12).....	678.70	170.18	
Note: Purple components for use with recycled water					
32 84 23 00-0103	EA	1-1/2" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12).....	796.62	170.18	
Note: Purple components for use with recycled water					
32 84 23 00-0104	EA	2" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12).....	877.44	170.18	
Note: Purple components for use with recycled water					
32 84 23 00-0105 Irrigation Valve Boxes (32 84 23)					
Note: Includes lid.					
32 84 23 00-0106	EA	6" Round Irrigation Valve Box With Lid (Rain Bird® PVB-6RND).....	113.53	49.01	
32 84 23 00-0107	EA	7" Round Irrigation Valve Box With Lid (Rain Bird® VB-7RND).....	127.49	49.01	
32 84 23 00-0108	EA	10" Round Irrigation Valve Box With Lid (Rain Bird® VB-10RND).....	167.35	64.53	
32 84 23 00-0109	EA	21.8" x 16.6" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Rain Bird® VB-STD).....	281.18	94.21	
32 84 23 00-0110	EA	21.8" x 16.6" x 12" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-STDH).....	286.15	94.21	
32 84 23 00-0111	EA	26.3" x 19.8" x 12.1" Depth, Rectangular Irrigation Valve Box With Lid (Rain Bird® VB-JMB).....	321.80	94.21	
32 84 23 00-0112	EA	26.3" x 19.8" x 12.1" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-JMBH).....	326.05	94.21	
32 84 23 00-0113	EA	33.1" x 23.8" x 15" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-SPRH).....	529.78	94.21	
32 84 23 00-0114	EA	40.3" x 27.1" x 18" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-MAXH).....	793.66	94.21	
32 84 23 00-0115	EA	Number 5 CALTRANS Concrete Valve Box With Non-Traffic Rated Concrete Lid.....	439.64	128.58	
For 12" Extension, Add				95.64	
32 84 23 00-0116	EA	Number 5 CALTRANS Concrete Valve Box With Non-Traffic Rated Steel Lid.....	698.87	128.58	
For 12" Extension, Add				95.64	
32 84 23 00-0117	EA	12" x 17" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Carson 1419-12).....	229.66	81.68	
32 84 23 00-0118	EA	15" x 21" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Carson 1220-12).....	324.04	94.21	
32 84 23 00-0119	EA	10" Round Irrigation Valve Box With Lid (Carson 910-10).....	179.63	64.53	
32 84 23 00-0120 Irrigation Controllers (32 84 23)					
See CSI section 27 15 13 00-0531 for low voltage wiring.					
32 84 23 00-0121 Irrigation Controllers (32 84 23 00-0120)					
32 84 23 00-0122 Irrigation Controllers (Rain Bird®) (32 84 23 00-0121)					
32 84 23 00-0123 Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP Series) (32 84 23 00-0122)					
32 84 23 00-0124 Four Program, Modular Irrigation Controllers (Rain Bird® ESP-ME Series) (32 84 23 00-0123)					
32 84 23 00-0125 Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-MEI Series) (32 84 23 00-0124)					
32 84 23 00-0126	EA	4-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	373.86	34.32	
32 84 23 00-0127	EA	7-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	522.14	34.32	
32 84 23 00-0128	EA	10-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	670.41	34.32	
32 84 23 00-0129	EA	13-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	818.68	34.32	
32 84 23 00-0130	EA	16-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	932.65	34.32	
32 84 23 00-0131	EA	19-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	1,085.22	34.32	
32 84 23 00-0132	EA	22-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....	1,237.79	34.32	
32 84 23 00-0133 Four Program, Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-ME Series) (32 84 23 00-0124)					
32 84 23 00-0134	EA	4-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	438.50	34.32	
32 84 23 00-0135	EA	7-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	586.78	34.32	
32 84 23 00-0136	EA	10-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	735.05	34.32	
32 84 23 00-0137	EA	13-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	883.32	34.32	
32 84 23 00-0138	EA	16-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	997.29	34.32	
32 84 23 00-0139	EA	19-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	1,149.86	34.32	
32 84 23 00-0140	EA	22-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....	1,302.43	34.32	
32 84 23 00-0141 Four Program, Modular Irrigation Controllers (Rain Bird® ESP-SMTE Series) (32 84 23 00-0123)					
32 84 23 00-0142 Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-SMTEI Series) (32 84 23 00-0141)					
32 84 23 00-0143	EA	4-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	598.40	34.32	
32 84 23 00-0144	EA	7-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	746.67	34.32	
32 84 23 00-0145	EA	10-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	894.95	34.32	
32 84 23 00-0146	EA	13-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	1,043.22	34.32	
32 84 23 00-0147	EA	16-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	1,157.18	34.32	
32 84 23 00-0148	EA	19-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	1,309.76	34.32	
32 84 23 00-0149	EA	22-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....	1,462.33	34.32	



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0150 Four Program, Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-SMTE Series) (32 84 23 00-0141)		
32 84 23 00-0151 EA 4-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	646.83	34.32
32 84 23 00-0152 EA 7-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	795.11	34.32
32 84 23 00-0153 EA 10-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	943.38	34.32
32 84 23 00-0154 EA 13-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	1,091.65	34.32
32 84 23 00-0155 EA 16-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	1,205.62	34.32
32 84 23 00-0156 EA 19-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	1,358.19	34.32
32 84 23 00-0157 EA 22-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series).....	1,510.76	34.32
32 84 23 00-0158 Accessories For ESP-ME/MEI Irrigation Controllers (32 84 23 00-0123)		
32 84 23 00-0159 EA 3-Station Expansion Module For ESP Series Irrigation Controllers (Rain Bird® ESP-SM3)..... Note: Use task for increasing capacity of existing ESP series irrigation controllers up to a maximum of 22- stations.	152.57	
32 84 23 00-0160 EA 6-Station Expansion Module For ESP Series Irrigation Controllers (Rain Bird® ESP-SM6)..... Note: Use task for increasing capacity of existing ESP series irrigation controllers up to a maximum of 22- stations.	291.65	
32 84 23 00-0161 EA Smart Controller Upgrade Kit For ESP Series Irrigation Controllers (Rain Bird® ESPSMTEUPG)	415.74	
32 84 23 00-0162 Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LX Series) (32 84 23 00-0122)		
32 84 23 00-0163 Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LX Basic Series) (32 84 23 00-0162)		
32 84 23 00-0164 EA 12-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	888.04	34.32
32 84 23 00-0165 EA 16-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,074.97	34.32
32 84 23 00-0166 EA 20-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,265.04	34.32
32 84 23 00-0167 EA 24-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,451.97	34.32
32 84 23 00-0168 EA 28-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,642.03	34.32
32 84 23 00-0169 EA 32-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,828.96	34.32
32 84 23 00-0170 EA 36-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	2,019.03	34.32
32 84 23 00-0171 EA 40-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	2,205.95	34.32
32 84 23 00-0172 EA 44-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	2,396.03	34.32
32 84 23 00-0173 EA 48-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	2,582.95	34.32
32 84 23 00-0174 Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LXME Series) (32 84 23 00-0162)		
32 84 23 00-0175 EA 8-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	889.21	34.32
32 84 23 00-0176 EA 12-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,076.13	34.32
32 84 23 00-0177 EA 16-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,266.20	34.32
32 84 23 00-0178 EA 20-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,453.13	34.32
32 84 23 00-0179 EA 24-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,643.20	34.32
32 84 23 00-0180 EA 28-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,830.13	34.32
32 84 23 00-0181 EA 32-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	2,020.19	34.32
32 84 23 00-0182 EA 36-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	2,207.12	34.32
32 84 23 00-0183 EA 40-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	2,397.18	34.32
32 84 23 00-0184 EA 44-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	2,584.12	34.32
32 84 23 00-0185 EA 48-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	2,774.17	34.32
32 84 23 00-0186 Accessories For ESP-LX/LXME Irrigation Controllers (32 84 23 00-0162)		
32 84 23 00-0187 EA Powder Coated Steel Wall Cabinet For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMM).....	657.90	
32 84 23 00-0188 EA Powder Coated Steel Cabinet And Pedestal For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMMPED + LXMM)..... Note: Excludes concrete foundation.	1,527.42	
32 84 23 00-0189 EA Stainless Steel Wall Cabinet For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMMSS).....	1,449.45	
32 84 23 00-0190 EA Stainless Steel Cabinet And Pedestal For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMMSSPED + LXMMSS)..... Note: Excludes concrete foundation.	3,220.25	
32 84 23 00-0191 EA 4-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM4)	186.93	
Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48- stations.		
32 84 23 00-0192 EA 8-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM8)	377.00	
Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48- stations.		
32 84 23 00-0193 EA 12-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM12)	585.48	
Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48- stations.		
32 84 23 00-0194 EA Flow Smart Water Management Module For ESP-LXME Irrigation Controllers (Rain Bird® FSM-LXME).....	217.54	
32 84 23 00-0195 Three Program, Battery-Operated, Buriable Irrigation Control Modules (Rain Bird® TBOS-II Series) (32 84 23 00-0122)		
32 84 23 00-0196 Three Program, Battery-Operated, Buriable Irrigation Control Modules (Rain Bird® TBOS-II Series) (32 84 23 00-0195)		
32 84 23 00-0197 EA 1-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series).....	432.11	34.32

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0198	EA	2-Station, Three Program, Battery-Operated, Burialable Irrigation Control Module (Rain Bird® TBOS-II Series)	521.28	34.32
32 84 23 00-0199	EA	4-Station, Three Program, Battery-Operated, Burialable Irrigation Control Module (Rain Bird® TBOS-II Series)	646.33	34.32
32 84 23 00-0200		Accessories For TBOS-II Series Irrigation Controllers (32 84 23 00-0195)		
32 84 23 00-0201	EA	Field Transmitter For TBOS-II Series Irrigation Controllers (Rain Bird® TBOS2FTUS)	548.60	
32 84 23 00-0202	EA	Potted Latching Solenoid For TBOS-II Series Irrigation Controllers (Rain Bird® TBOSPSOL)	108.73	25.73
32 84 23 00-0203		Accessories For Irrigation Controllers (Rain Bird®) (32 84 23 00-0122)		
32 84 23 00-0204	EA	Wired Rain Sensor For Irrigation Controllers (Rain Bird® RSDDEX)	154.68	25.73
32 84 23 00-0205	EA	Wireless Rain Sensor And Controller Interface For Irrigation Controllers (Rain Bird® WR2RC)	317.35	25.73
32 84 23 00-0206	EA	Wireless Rain/Freeze Sensor And Controller Interface For Irrigation Controllers (Rain Bird® WR2RFC)	336.16	25.73
32 84 23 00-0207	EA	Soil Moisture Sensor And Controller Interface For Irrigation Controllers (Rain Bird® SMRT-Y)	499.18	25.73
32 84 23 00-0208		Two-Wire Decoder Systems (32 84 23 00-0120)		
32 84 23 00-0209		Two-Wire Decoder Systems (Rain Bird®) (32 84 23 00-0208)		
32 84 23 00-0210		Controllers For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series)		
		(32 84 23 00-0209) Note: Includes water resistant cabinet.		
32 84 23 00-0211	EA	50-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series)	2,572.20	34.32
32 84 23 00-0212	EA	125-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series)	3,658.62	34.32
32 84 23 00-0213	EA	200-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series)	4,745.03	34.32
32 84 23 00-0214		Field Decoders For Two-Wire Decoder Systems (Rain Bird®) (32 84 23 00-0209)		
32 84 23 00-0215	EA	One Individual Valve Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD101TURF)	314.89	34.32
32 84 23 00-0216	EA	One Pair Of Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD102TURF)	401.02	34.32
32 84 23 00-0217	EA	Two Pair Of Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD202TURF)	600.52	34.32
32 84 23 00-0218	EA	Up To Four Individual Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD401TURF)	733.41	34.32
32 84 23 00-0219	EA	Up To Six Individual Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD601TURF)	1,215.67	34.32
32 84 23 00-0220		Accessories For Two-Wire Decoder Systems (Rain Bird®) (32 84 23 00-0209)		
32 84 23 00-0221	EA	50-Station Replacement Base Module For ESP-LXD Series Two Wire Decoder Based Controllers (Rain Bird® MOD50-LXD)	1,909.43	
32 84 23 00-0222	EA	75-Station Expansion Module For ESP-LXD Series Two Wire Decoder Based Controllers (Rain Bird® SPLXDSM75)	1,086.42	
32 84 23 00-0223	EA	Line Surge Protection For ESP-LXD Series Two-Wire Decoder Systems (Rain Bird® LSP1TURF)	237.91	30.03
32 84 23 00-0224	EA	Sensor Decoder Interface For ESP-LXD Series Two-Wire Decoder Systems (Rain Bird® SD210TURF)	1,081.10	34.32
32 84 23 00-0225		Calsense Controllers (32 84 23 00-0120)		
32 84 23 00-0226		Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0227	EA	6 Station ET-Driven Irrigation Controller (Calsense ET2000E-6)	2,693.50	85.78
32 84 23 00-0228	EA	8 Station ET-Driven Irrigation Controller (Calsense ET2000E-8)	3,477.38	96.51
32 84 23 00-0229	EA	12 Station ET-Driven Irrigation Controller (Calsense ET2000E-12)	4,777.38	107.23
32 84 23 00-0230	EA	16 Station ET-Driven Irrigation Controller (Calsense ET2000E-16)	5,258.31	107.23
32 84 23 00-0231	EA	24 Station ET-Driven Irrigation Controller (Calsense ET2000E-24)	6,218.13	117.95
32 84 23 00-0232	EA	32 Station ET-Driven Irrigation Controller (Calsense ET2000E-32)	7,508.42	117.95
32 84 23 00-0233	EA	40 Station ET-Driven Irrigation Controller (Calsense ET2000E-40)	8,503.44	128.68
32 84 23 00-0234	EA	48 Station ET-Driven Irrigation Controller (Calsense ET2000E-48)	9,523.94	128.68
32 84 23 00-0235	EA	Upgrade Existing Calsense Controller To ET2000E (Calsense ET2000E-UPGRADE)	2,751.66	42.90
32 84 23 00-0236	EA	Upgrade Existing Calsense Controller With 8 Additional Stations (Calsense STATION UPGRADE)	1,152.13	42.90
32 84 23 00-0237		Irrigation Controller Accessories (32 84 23 00-0225)		
32 84 23 00-0238	EA	Set Of 10 Keys For Calsense Controllers Or Enclosures (Calsense KEY-1)	112.61	
32 84 23 00-0239	EA	Spare Lock For Enclosures (Calsense PAD)	121.99	
32 84 23 00-0240	EA	Hardware And Software For Up To 4 Additional Light Circuits (Calsense L)	143.44	10.72
32 84 23 00-0241	EA	Transformer For Irrigation Controllers (Calsense TR-1)	203.08	42.90
32 84 23 00-0242	EA	AC Line Protection For Irrigation Controllers (Calsense TP-110)	566.70	42.90
32 84 23 00-0243	EA	Transient Protection Board For Irrigation Controller Stations (Calsense TP-1)	754.38	42.90
		For Outdoor Gray Powder Coated Stainless Steel Enclosure, Add	354.97	
32 84 23 00-0244		Sensors For Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0245		Flow Sensors (32 84 23 00-0244)		
32 84 23 00-0246	EA	1-1/2" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 1.5)	1,325.12	64.34
		For Flow Meter Replacement Insert Only, Deduct	-944.33	
32 84 23 00-0247	EA	2" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 2)	1,372.04	64.34
		For Flow Meter Replacement Insert Only, Deduct	-991.25	
32 84 23 00-0248	EA	3" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 3)	1,418.96	64.34
		For Flow Meter Replacement Insert Only, Deduct	-1,038.17	
32 84 23 00-0249	EA	1" Brass Tee Mounted Flow Meter (Calsense FM 1B)	1,567.43	85.78
		For Flow Meter Replacement Insert Only, Deduct	-1,186.33	



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0250	EA	1-1/4"	Brass Tee Mounted Flow Meter (Calsense FM 1.25B)..... <i>For Flow Meter Replacement Insert Only, Deduct</i>	1,684.73 -1,303.63	85.78
32 84 23 00-0251	EA	1-1/2"	Brass Tee Mounted Flow Meter (Calsense FM 1.5B)..... <i>For Flow Meter Replacement Insert Only, Deduct</i>	1,731.65 -1,350.55	85.78
32 84 23 00-0252	EA	2"	Brass Tee Mounted Flow Meter (Calsense FM 2B)..... <i>For Flow Meter Replacement Insert Only, Deduct</i>	2,036.63 -1,527.34	85.78
32 84 23 00-0253	EA	2"	Pipe Saddle Mounted Insertion Flow Meter (Calsense FMBX)..... Note: For 4" and larger pipe. Excludes pipe saddle. <i>For Flow Meter Replacement Insert Only, Deduct</i>	1,587.20 -1,077.92	42.90
32 84 23 00-0254			Moisture Sensors (32 84 23 00-0244)		
32 84 23 00-0255	EA		Soil Moisture Sensor (Calsense 1000-S).....	556.99	32.17
32 84 23 00-0256			Weather Sensors (32 84 23 00-0244)		
32 84 23 00-0257	EA		Wind Gage, Irrigation Weather Sensor (Calsense WG-1)	1,520.51	85.78
32 84 23 00-0258	EA		Tipping Rain Bucket, Irrigation Weather Sensor (Calsense RB-1).....	1,739.00	171.58
32 84 23 00-0259	EA		ET Gage, Irrigation Weather Sensor (Calsense ETG)	3,483.07	128.68
32 84 23 00-0260			Weather Sensor Accessories (32 84 23 00-0244)		
32 84 23 00-0261	EA		Ceramic Cup For ET Gage Weather Sensor (Calsense ETG-C).....	1,024.17	
32 84 23 00-0262	EA		Removal And Replacement Of Circuit Board For ET Gage Weather Sensor (Calsense ETG-PCB)	1,939.10	
32 84 23 00-0263	EA		Vandal Resistant Mounting Base For ET Gage Enclosure (Calsense ETGE-BASE).....	1,024.17	42.90
32 84 23 00-0264	EA		Vandal Resistant Stainless Steel Enclosure For ET Gage (Calsense ETGE)	2,377.14	42.90
32 84 23 00-0265			Antennas For Irrigation Controllers (32 84 23 00-0225) Note: Excludes antenna cable.		
32 84 23 00-0266	EA		Local Radio Dome Antenna (Calsense LR-DOME)	531.51	42.90
32 84 23 00-0267	EA		Local Radio Stick Antenna (Calsense LR-STICK)	777.84	42.90
32 84 23 00-0268	EA		Local Radio Yagi Antenna (Calsense LR-YAGI).....	863.64	85.78
32 84 23 00-0269	EA		Local Radio And Calsense Radio, Remote Dome Antenna (Calsense LR-DOME-RR)	531.51	42.90
32 84 23 00-0270	EA		Local Radio And Calsense Radio, Enhanced Remote Dome Antenna (Calsense LR-DOME-RRE)	531.51	42.90
32 84 23 00-0271	EA		GPRS Stubby Antenna (Calsense GR-STUBBY)	531.51	42.90
32 84 23 00-0272	EA		GPRS Stick Antenna (Calsense GR-STICK)	777.84	42.90
32 84 23 00-0273	EA		Spread Spectrum Dome Antenna (Calsense SR-DOME).....	531.51	42.90
32 84 23 00-0274	EA		Spread Spectrum Stick Antenna (Calsense SR-STICK).....	777.84	42.90
32 84 23 00-0275	EA		Spread Spectrum Yagi Antenna (Calsense SR-YAGI)	863.64	85.78
32 84 23 00-0276	EA		Spread Spectrum And Calsense Radio, Remote Dome Antenna (Calsense SR-DOME-RR)	531.51	42.90
32 84 23 00-0277	EA		Spread Spectrum And Calsense Radio, Enhanced Remote Dome Antenna (Calsense SR-DOME-RRE)	531.51	42.90
32 84 23 00-0278	EA		Spread Spectrum Stubby Antenna (Calsense SR-STUBBY).....	531.51	42.90
32 84 23 00-0279	EA		WiFi Stubby Antenna (Calsense WEN-STUBBY)	531.51	42.90
32 84 23 00-0280	LF		Antenna Cable With End Connectors (Calsense LMR-400-DB)	14.64	0.51
32 84 23 00-0281	EA		Surge Protection Device For Antenna (Calsense ANT-PROT)	535.55	21.45
32 84 23 00-0282	EA		5' High, Non-Penetrating, Antenna Tripod Mount (Calsense ANT-TRIP5).....	871.68	42.90
32 84 23 00-0283	EA		3' Antenna Stand Off Mount For 3" Maximum Tower Leg (Calsense ANT-SOM).....	762.44	
32 84 23 00-0284	EA		Local Radio Frequency Filter (Calsense LR-FILTER).....	1,079.15	
32 84 23 00-0285	EA		Spread Spectrum Frequency Filter (Calsense SR-FILTER)	797.63	
32 84 23 00-0286			Pedestals And Enclosures For Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0287	EA		15 Amperes, Circuit Breaker With Enclosure For Irrigation Controllers (Calsense SSE-BREAKER).....	480.58	64.34
32 84 23 00-0288	EA		Standard Gray Powder Coated Stainless Steel Controller Enclosure (Calsense C-BOX)	1,174.19	107.23
32 84 23 00-0289	EA		Indoor Wall Mount, Stainless Steel Back Panel (Calsense SSBP)..... Note: Includes GFI and receptacle.	1,317.41	42.90
32 84 23 00-0290	EA		Standard Gray Powder Coated Stainless Steel Pedestal (Calsense PD-1)	1,577.49	32.17
			Note: Includes factory installed transient protection board and AC line protection.		
32 84 23 00-0291	EA		Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE)	4,957.29	32.17
			Note: Includes factory installed transient protection board and AC line protection.		
32 84 23 00-0292	EA		Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-R).....	5,600.83	32.17
			Note: Includes factory installed transient protection board, AC line protection and dome antenna.		
32 84 23 00-0293	EA		Double-Wide Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-D)	8,123.11	64.34
			Note: Includes factory installed transient protection boards and AC line protection. Pre-wired for two controllers.		
32 84 23 00-0294	EA		Double-Wide Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-D-R)	8,514.99	64.34
			Note: Includes factory installed transient protection boards, AC line protection and dome antenna. Pre-wired for two controllers.		
32 84 23 00-0295	EA		Bolt Mounting Template For Heavy-Duty Stainless Steel Enclosures (Calsense SSE-CAM).....	277.37	
32 84 23 00-0296	EA		Stainless Steel Fully Enclosed Riser For Calsense SSE Enclosures (Calsense SSE-PED)	897.16	
32 84 23 00-0297			Central Computer For Irrigation Control Systems (32 84 23 00-0225)		
32 84 23 00-0298	EA		Central Computer For Irrigation Control Systems (Calsense COMP-2)..... Note: Includes a minimum of 133 MHz Pentium, 32 Meg Ram, 1.2 GB hard drive, 14.4 modem and a printer. Excludes Command Center Water Management software.	6,249.28	
32 84 23 00-0299	EA		Command Center Water Management Software For Central Computer (Calsense COMM-1).....	11,069.18	
32 84 23 00-0300	EA		Up To 5 Simultaneous Users Capacity, Calsense Advantage Client/Server Database Add-On (Calsense CS-5).....	2,122.28	
			Note: Package price for up to 5 users. Includes remote communication through internet connection.		
32 84 23 00-0301	EA		>5 To 10 Simultaneous Users Capacity, Calsense Advantage Client/Server Database Add-On (Calsense CS-10).....	4,184.49	
			Note: Package price for 6 to 10 users. Includes remote communication through internet connection.		

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0302	EA	Data Logger With Phone Modem For Irrigation Control Systems (Calsense DL-2)	6,739.45	
32 84 23 00-0303	EA	GPRS Radio For Use At Central Computer (Calsense DTR-G)	4,030.80	
32 84 23 00-0304		Data Access Service (32 84 23 00-0225)		
32 84 23 00-0305	EA	1 Month, Data Access Plan For Up To 2 Controllers (Calsense COMM-1MN)	34.12	
		Note: For communication between GPRS unit and up to 2 controllers.		
32 84 23 00-0306	EA	1 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-1YR)	373.22	
		Note: For communication between GPRS unit and up to 2 controllers.		
32 84 23 00-0307	EA	5 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-5YR)	1,599.52	
		Note: For communication between GPRS unit and up to 2 controllers.		
32 84 23 00-0308	EA	1 Month, Data Access Plan For Up To 2 Controllers (Calsense COMM-1MN-M)	138.63	
		Note: For communication between GPRS unit and multiple controllers.		
32 84 23 00-0309	EA	1 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-1YR-M)	1,492.89	
		Note: For communication between GPRS unit and multiple controllers.		
32 84 23 00-0310	EA	5 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-5YR-M)	6,398.10	
		Note: For communication between GPRS unit and multiple controllers.		
32 84 23 00-0311		Communication Options For Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0312	EA	FCC License Fee (Calsense)	224.18	
32 84 23 00-0313	EA	P.C.I.A. And/Or A.P.C.O. Fee (Calsense)	437.45	
		Note: Per frequency or frequency pair.		
32 84 23 00-0314	EA	Hardware Communication Option For Irrigation Controllers (Calsense M)	1,236.97	
		Note: Allows multiple controllers to be chained together via a communications cable and share one phone line.		
32 84 23 00-0315	EA	Phone Line Communication Option For Irrigation Controllers (Calsense R)	1,300.95	
32 84 23 00-0316	EA	Ethernet Communication Option For Irrigation Controllers (Calsense EN)	1,300.95	
32 84 23 00-0317	EA	WiFi Communication Option For Irrigation Controllers (Calsense WEN)	2,665.88	
32 84 23 00-0318	EA	Local Radio Communication Option For Irrigation Controllers (Calsense LR)	3,390.99	
32 84 23 00-0319	EA	Spread Spectrum Radio Communication Option For Irrigation Controllers (Calsense SR)	3,390.99	
32 84 23 00-0320	EA	GPRS Radio Modem Communication Option For Irrigation Controllers (Calsense GR)	3,390.99	
32 84 23 00-0321	EA	Fiber Optic Modem Communication Option For Irrigation Controllers (Calsense FOM)	10,876.77	
32 84 23 00-0322	EA	Communication Hub For Irrigation Controllers (Calsense HUB)	4,185.67	
		Note: Accepts up to two communication options. Excludes communication options.		
32 84 23 00-0323		Retrofit Options For Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0324		Weather Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0325	EA	Add One Flow Sensor Interface To An Existing Calsense Controller (Calsense F-RETRO)	1,653.31	
32 84 23 00-0326	EA	Add One ET Gage Interface To An Existing Calsense Controller (Calsense G-RETRO)	1,653.31	
32 84 23 00-0327	EA	Add One Tipping Rain Bucket Interface To An Existing Calsense Controller (Calsense RB-RETRO)	1,653.31	
32 84 23 00-0328	EA	Add One Wind Gage Interface To An Existing Calsense Controller (Calsense WG-RETRO)	1,653.31	
32 84 23 00-0329		Phone Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0330	EA	Add The Ability To Chain To Another Calsense Controller With The Phone Line Communication Option And Share One Phone Line (Calsense M-RETRO)	1,738.62	
32 84 23 00-0331	EA	Add The Phone Line Communication Option To An Existing Calsense Controller (Calsense R-RETRO)	2,058.53	
32 84 23 00-0332	EA	Add The Phone Line Communication Option And The Ability To Chain To Another Calsense Controller And Share One Phone Line (Calsense MLR-RETRO)	3,306.16	
32 84 23 00-0333		Local Radio Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0334	EA	Add The Ability To Chain To Another Calsense Controller With The Local Radio Communication Option And Share One Local Radio (Calsense ML-RETRO)	1,951.89	
32 84 23 00-0335	EA	Add The Local Radio Communication Option To An Existing Calsense Controller (Calsense LR-RETRO)	4,127.25	
32 84 23 00-0336	EA	Add The Local Radio Communication Option And The Ability To Chain To Another Calsense Controller And Share One Local Radio (Calsense MLR-RETRO)	5,364.21	
32 84 23 00-0337		Spread Spectrum Radio Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0338	EA	Add The Ability To Chain To Another Calsense Controller With The Spread Spectrum Radio Communication Option And Share One Spread Spectrum Radio (Calsense MS-RETRO)	1,951.89	
32 84 23 00-0339	EA	Add The Spread Spectrum Radio Communication Option To An Existing Calsense Controller (Calsense SR- RETRO)	4,127.25	
32 84 23 00-0340	EA	Add The Spread Spectrum Radio Communication Option And The Ability To Chain To Another Calsense Controller And Share One Spread Spectrum Radio (Calsense MSR-RETRO)	5,364.21	
32 84 23 00-0341		Ethernet Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		
32 84 23 00-0342	EA	Add The Ability To Chain To Another Calsense Controller With The Ethernet Communication Option And Share One Ethernet Device (Calsense ME-RETRO)	1,951.89	
32 84 23 00-0343	EA	Add The Ethernet Communication Option To An Existing Calsense Controller (Calsense EN-RETRO)	2,058.53	
32 84 23 00-0344	EA	Add The Ethernet Communication Option And The Ability To Chain To Another Calsense Controller And Share One Ethernet Device (Calsense MEN-RETRO)	3,306.16	
32 84 23 00-0345		GPRS Radio Modem Communication Retrofits For Irrigation Controllers (32 84 23 00-0323)		



Exterior Improvements		32	32
Irrigation		32 80	
Planting Irrigation		32 84	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0346	EA	Add The Ability To Chain To Another Calsense Controller With The GPRS Communication Option And Share One GPRS Modem (Calsense MG-RETRO).....	1,951.89	
32 84 23 00-0347	EA	Add The GPRS Communication Option To An Existing Calsense Controller (Calsense GR-RETRO).....	4,127.25	
32 84 23 00-0348	EA	Add The GPRS Communication Option And The Ability To Chain To Another Calsense Controller And Share One GPRS Modem (Calsense MGR-RETRO).....	5,364.21	
32 84 23 00-0349		Radio Remote Units For Irrigation Controllers (32 84 23 00-0225)		
32 84 23 00-0350	EA	Enhanced Radio Remote Hand-Held Transmitter With Carry Case (Calsense RRE-TRAN).....	1,962.56	
32 84 23 00-0351	EA	Calsense Integrated Radio Remote Receiver Board (Calsense RR/RRe)..... Note: Includes polyvinyl chloride (PVC) stick antenna. Excludes antenna cable.	422.27	
32 84 23 00-0352	EA	Wall Mount Charger For Hand-Held Transmitter (Calsense RRTRAN-CHG).....	181.28	
32 84 23 00-0353	EA	Removal And Replacement Of Battery For Hand-Held Transmitter (Calsense RRTRAN-BAT).....	320.03	
32 84 23 00-0354	EA	Polyvinyl Chloride (PVC) Stick Antenna For Radio Remote Receiver Board (Calsense RR-ANT)..... Note: Excludes antenna cable.	202.73	10.72
32 84 23 00-0355	EA	Whip Antenna For Radio Remote Receiver Board (Calsense RRE-WHIP)..... Note: Excludes antenna cable.	394.67	10.72
32 84 23 00-0356	EA	Dome Antenna For Radio Remote Receiver Board (Calsense RR-Dome/RRe-Dome)..... Note: Excludes antenna cable.	426.66	10.72
32 84 23 00-0357		Satellite Irrigation Controllers (Rain Bird® ESP-SAT) (32 84 23 00-0120) Note: Satellite controllers compatible with Maxi-Con Central Control. Includes link communication with SEMET at the controller and stainless steel cabinet. Excludes concrete pad.		
32 84 23 00-0358	EA	12 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP12SATLS).....	4,586.90	193.02
32 84 23 00-0359	EA	24 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP24SATLS).....	4,837.25	203.75
32 84 23 00-0360	EA	40 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP40SATLS).....	6,730.86	214.47
32 84 23 00-0361		LEIT Controllers (32 84 23 00-0120)		
32 84 23 00-0362		LEIT X Series Irrigation Controller (32 84 23 00-0361)		
32 84 23 00-0363	EA	10 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series).....	4,319.52	34.32
32 84 23 00-0364	EA	12 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series).....	4,740.31	34.32
32 84 23 00-0365	EA	16 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series).....	5,422.98	34.32
32 84 23 00-0366	EA	20 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series).....	6,105.65	34.32
32 84 23 00-0367	EA	24 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series).....	6,586.51	34.32
32 84 23 00-0368	EA	28 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series).....	7,067.36	34.32
32 84 23 00-0369		LEIT X Series Irrigation Controller Assembly (32 84 23 00-0361) Note: Includes excavation and concrete for footing, 2" diameter galvanized steel pole (minimum 18" bury), 2" sweeps, controller, and number 5 concrete box with non-traffic rated lid per detail.		
32 84 23 00-0370	EA	10 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	4,876.50	179.05
32 84 23 00-0371	EA	12 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	5,297.30	179.05
32 84 23 00-0372	EA	16 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	5,979.97	179.05
32 84 23 00-0373	EA	20 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	6,662.64	179.05
32 84 23 00-0374	EA	24 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	7,143.49	179.05
32 84 23 00-0375	EA	28 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole.....	7,624.33	179.05
32 84 23 00-0376		Enclosure For LEIT Controller Assembly (32 84 23 00-0361) Note: Includes mounting bolts to concrete foundation and installation of enclosure per detail.		
32 84 23 00-0377	EA	12" x 12" x 54" Milled Steel, #9 Expanded Metal, Painted Per Detail, Enclosure With Access Hatch..... Note: For LEIT Controller	3,297.35	240.25
32 84 23 00-0378		Hunter Controllers (32 84 23 00-0120)		
32 84 23 00-0379		Hunter XC Hybrid Controller (32 84 23 00-0378) Note: Operates DC latching solenoids with battery power or a plug in 24 VAC transformer. Includes 6 AA batteries, outdoor stainless steel enclosure and installation of controller in Irrigation Controller Enclosure.		
32 84 23 00-0380	EA	6 Station Hybrid Irrigation Controller With Stainless Steel Enclosure (Hunter XCH-600-SS).....	706.32	85.78
32 84 23 00-0381	EA	12 Station Hybrid Irrigation Controller With Stainless Steel Enclosure (Hunter XCH-1200-SS).....	898.98	107.23
32 84 23 00-0382		DC Latching Solenoid (32 84 23 00-0120)		
32 84 23 00-0383	EA	DC Latching Solenoid (Micro Power Solenoid) For Non LEIT Controllers..... Note: As per manufacture of valve.	38.83	
32 84 23 00-0384	EA	DC Solenoid For LEIT Controllers (DIG S-305DC).....	61.56	
32 84 23 00-0385		Irrigation Controller Enclosure Cabinet (32 84 23 00-0120) Note: Includes excavation, installation of concrete foundation, mounting bolts, sweeps, number 5 concrete pull box with non-traffic rated lid and installation of enclosure per detail.		
32 84 23 00-0386	EA	35" (H) x 18" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan).....	3,128.63	471.46
32 84 23 00-0387	EA	35" (H) x 24" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan).....	3,375.12	514.32
32 84 23 00-0388	EA	35" (H) x 36" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan).....	3,732.06	557.17
32 84 23 00-0389	EA	35" (H) x 18" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Irrigation Controller Enclosure Cabinet,.....	3,128.65	471.46

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0390 EA 35" (H) x 24" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Steel Irrigation Controller Enclosure Cabinet.....	3,375.12	514.32
32 84 23 00-0391 EA 35" (H) x 36" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Steel Irrigation Controller Enclosure Cabinet.....	3,732.06	557.17
32 84 23 00-0392 EA 35" (H) x 18" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet.....	3,901.17	471.46
32 84 23 00-0393 EA 35" (H) x 24" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet.....	4,244.20	514.32
32 84 23 00-0394 EA 35" (H) x 36" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet.....	4,601.14	557.17
32 84 23 00-0395 Irrigation Valves (32 84 23)		
32 84 23 00-0396 Reduced Pressure Zone Valves With QT Shut-Offs (32 84 23 00-0395)		
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 009 QT series).		
32 84 23 00-0397 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M3 QT series)	824.31	56.19
32 84 23 00-0398 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	979.12	68.61
32 84 23 00-0399 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	1,466.50	79.85
32 84 23 00-0400 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	1,554.18	91.68
32 84 23 00-0401 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	1,869.78	118.29
32 84 23 00-0402 Brass Quick-Coupling Irrigation Valves (32 84 23 00-0395)		
32 84 23 00-0403 EA 3/4", 1-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 3RC).....	184.53	49.01
For Valve Key, Add	43.42	
32 84 23 00-0404 EA 3/4", 2-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 33DRC)	189.56	49.01
For Locking Cover, Add	25.00	
For Valve Key, Add	43.42	
32 84 23 00-0405 EA 1", 1-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 44RC).....	244.80	49.01
For Valve Key, Add	111.07	
32 84 23 00-0406 EA 1", 2-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 44LRC).....	264.88	49.01
For Valve Key, Add	111.07	
32 84 23 00-0407 EA 1", 1-Piece Brass Body, Non-Potable (Purple) Quick-Coupling Irrigation Valve (Rain Bird® 5NP).....	255.43	49.01
32 84 23 00-0408 EA 1", 2-Piece Brass Body, Non-Potable (Purple) Quick-Coupling Irrigation Valve (Rain Bird® 44NP).....	264.88	49.01
32 84 23 00-0409 Anti-Siphon Pressure Type Vacuum Breaker (32 84 23 00-0395)		
Note: Pressure: 15 to 150 PSI, temperature: 33 to 140 degrees Fahrenheit.		
32 84 23 00-0410 EA 3/4" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	299.04	41.40
32 84 23 00-0411 EA 1" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	422.88	47.31
32 84 23 00-0412 EA 1-1/4" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	753.44	54.71
32 84 23 00-0413 EA 1-1/2" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	916.50	60.62
32 84 23 00-0414 EA 2" Anti-Siphon Pressure Type Vacuum Breaker	929.62	73.94
32 84 23 00-0415 Aluminum Cam And Groove Adapter (32 84 23 00-0395)		
32 84 23 00-0416 EA 1-1/2" Type A Aluminum Cam And Groove Male Adapter x 1-1/2" NPT Female Pipe Thread.....	50.74	
32 84 23 00-0417 EA 2" Type A Aluminum Cam And Groove Male Adapter x 2" NPT Female Pipe Thread	53.54	
32 84 23 00-0418 EA 1-1/2" Type F Aluminum Cam And Groove Male Adapter x 1-1/2" NPT Male Pipe Thread	51.95	
32 84 23 00-0419 EA 2" Type F Aluminum Cam And Groove Male Adapter x 2" NPT Male Pipe Thread	55.82	
32 84 23 00-0420 Irrigation Piping (32 84 23)		
32 84 23 00-0421 Irrigation Piping With Fittings, On Grade With Pipe Stabilizers (32 84 23 00-0420)		
Note: Install stabilizers every 20', at change of direction and at sprinkler heads less than 12" tall.		
32 84 23 00-0422 Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers (32 84 23 00-0421)		
32 84 23 00-0423 LF 1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	3.91	1.36
For >1,000, Deduct	-0.20	
32 84 23 00-0424 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	4.79	1.70
For >1,000, Deduct	-0.24	
32 84 23 00-0425 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	5.81	2.04
For >1,000, Deduct	-0.29	
32 84 23 00-0426 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	7.73	2.58
For >1,000, Deduct	-0.39	
32 84 23 00-0427 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	9.71	3.24
For >1,000, Deduct	-0.49	
32 84 23 00-0428 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	12.41	3.78
For >1,000, Deduct	-0.62	
32 84 23 00-0429 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	17.05	5.44
For >1,000, Deduct	-0.85	
32 84 23 00-0430 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	22.30	6.81
For >1,000, Deduct	-1.12	
32 84 23 00-0431 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers	31.83	8.51
For >1,000, Deduct	-1.59	
32 84 23 00-0432 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers (32 84 23 00-0421)		
32 84 23 00-0433 LF 3/4" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	4.51	1.70
For >1,000, Deduct	-0.23	
32 84 23 00-0434 LF 1" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers	5.34	2.04
For >1,000, Deduct	-0.27	



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0435	LF	1-1/2"	Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers..... <i>For >1,000, Deduct</i>	7.40 -0.37	2.58
32 84 23 00-0436	LF	2"	Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers..... <i>For >1,000, Deduct</i>	9.44 -0.47	3.24
32 84 23 00-0437	LF	2-1/2"	Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers..... <i>For >1,000, Deduct</i>	12.00 -0.60	3.78
32 84 23 00-0438	LF	3"	Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers <i>For >1,000, Deduct</i>	16.89 -0.84	5.44
32 84 23 00-0439	LF	4"	Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers <i>For >1,000, Deduct</i>	23.16 -1.16	6.81
32 84 23 00-0440	LF	6"	Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers <i>For >1,000, Deduct</i>	37.27 -1.86	8.51
32 84 23 00-0441 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers (32 84 23 00-0421)					
32 84 23 00-0442	LF	3/4"	Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers <i>For >1,000, Deduct</i>	4.74 -0.24	1.70
32 84 23 00-0443	LF	1"	Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers <i>For >1,000, Deduct</i>	5.66 -0.28	2.04
32 84 23 00-0444	LF	1-1/2"	Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers <i>For >1,000, Deduct</i>	8.01 -0.40	2.58
32 84 23 00-0445	LF	2"	Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers <i>For >1,000, Deduct</i>	10.44 -0.52	3.24
32 84 23 00-0446	LF	2-1/2"	Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers <i>For >1,000, Deduct</i>	13.59 -0.68	3.78
32 84 23 00-0447	LF	3"	Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers <i>For >1,000, Deduct</i>	17.05 -0.85	5.44
32 84 23 00-0448	LF	4"	Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers <i>For >1,000, Deduct</i>	22.30 -1.12	6.81
32 84 23 00-0449	LF	6"	Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers <i>For >1,000, Deduct</i>	32.36 -1.62	8.51
32 84 23 00-0450 Irrigation Piping With Fittings, Trenching, Cover, Backfilled And Compacted (32 84 23 00-0420)					
<i>Note: Install thrust blocks per Caltrans details for 3" piping and larger, upstream of remote control valve.</i>					
32 84 23 00-0451 Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted (32 84 23 00-0450)					
32 84 23 00-0452	LF	3/4"	Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	6.82 -0.34	1.70
32 84 23 00-0453	LF	1"	Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	7.85 -0.39	2.04
32 84 23 00-0454	LF	1-1/2"	Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	9.75 -0.49	2.58
32 84 23 00-0455	LF	2"	Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	11.74 -0.59	3.24
32 84 23 00-0456	LF	2-1/2"	Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	14.44 -0.72	3.78
32 84 23 00-0457	LF	3"	Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	19.07 -0.95	5.44
32 84 23 00-0458	LF	4"	Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	24.32 -1.22	6.81
32 84 23 00-0459	LF	6"	Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	33.85 -1.69	8.51
32 84 23 00-0460 Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted (32 84 23 00-0450)					
32 84 23 00-0461	LF	3/4"	Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	7.06 -0.35	1.70
32 84 23 00-0462	LF	1"	Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	8.09 -0.40	2.04
32 84 23 00-0463	LF	1-1/2"	Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	10.00 -0.50	2.58
32 84 23 00-0464	LF	2"	Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	11.99 -0.60	3.24
32 84 23 00-0465	LF	2-1/2"	Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	14.69 -0.73	3.78
32 84 23 00-0466	LF	3"	Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	19.33 -0.97	5.44
32 84 23 00-0467	LF	4"	Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	24.57 -1.23	6.81
32 84 23 00-0468	LF	6"	Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	34.10 -1.71	8.51
32 84 23 00-0469 Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted (32 84 23 00-0450)					
32 84 23 00-0470	LF	3/4"	Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted <i>For >1,000, Deduct</i>	7.32 -0.37	1.70

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0471	LF	1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	8.34	2.04
		<i>For >1,000, Deduct</i>	-0.42	
32 84 23 00-0472	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	10.25	2.58
		<i>For >1,000, Deduct</i>	-0.51	
32 84 23 00-0473	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	12.23	3.24
		<i>For >1,000, Deduct</i>	-0.61	
32 84 23 00-0474	LF	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	14.94	3.78
		<i>For >1,000, Deduct</i>	-0.75	
32 84 23 00-0475	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	19.57	5.44
		<i>For >1,000, Deduct</i>	-0.98	
32 84 23 00-0476	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	24.81	6.81
		<i>For >1,000, Deduct</i>	-1.24	
32 84 23 00-0477	LF	6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	34.34	8.51
		<i>For >1,000, Deduct</i>	-1.72	
32 84 23 00-0478 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted (32 84 23 00-0450)				
32 84 23 00-0479	LF	3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	6.68	1.70
		<i>For >1,000, Deduct</i>	-0.33	
32 84 23 00-0480	LF	1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	7.61	2.04
		<i>For >1,000, Deduct</i>	-0.38	
32 84 23 00-0481	LF	1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	9.77	2.58
		<i>For >1,000, Deduct</i>	-0.49	
32 84 23 00-0482	LF	2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	12.22	3.24
		<i>For >1,000, Deduct</i>	-0.61	
32 84 23 00-0483	LF	2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	15.23	3.78
		<i>For >1,000, Deduct</i>	-0.76	
32 84 23 00-0484	LF	3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	18.92	5.44
		<i>For >1,000, Deduct</i>	-0.95	
32 84 23 00-0485	LF	4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	25.18	6.81
		<i>For >1,000, Deduct</i>	-1.26	
32 84 23 00-0486	LF	6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted	39.30	8.51
		<i>For >1,000, Deduct</i>	-1.97	
32 84 23 00-0487 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted (32 84 23 00-0450)				
32 84 23 00-0488	LF	3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	6.92	1.70
		<i>For >1,000, Deduct</i>	-0.35	
32 84 23 00-0489	LF	1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	7.85	2.04
		<i>For >1,000, Deduct</i>	-0.39	
32 84 23 00-0490	LF	1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	10.02	2.58
		<i>For >1,000, Deduct</i>	-0.50	
32 84 23 00-0491	LF	2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	12.47	3.24
		<i>For >1,000, Deduct</i>	-0.62	
32 84 23 00-0492	LF	2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	15.48	3.78
		<i>For >1,000, Deduct</i>	-0.77	
32 84 23 00-0493	LF	3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	19.18	5.44
		<i>For >1,000, Deduct</i>	-0.96	
32 84 23 00-0494	LF	4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	25.43	6.81
		<i>For >1,000, Deduct</i>	-1.27	
32 84 23 00-0495	LF	6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted	39.55	8.51
		<i>For >1,000, Deduct</i>	-1.98	
32 84 23 00-0496 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted (32 84 23 00-0450)				
32 84 23 00-0497	LF	3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	7.18	1.70
		<i>For >1,000, Deduct</i>	-0.36	
32 84 23 00-0498	LF	1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	8.10	2.04
		<i>For >1,000, Deduct</i>	-0.41	
32 84 23 00-0499	LF	1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	10.27	2.58
		<i>For >1,000, Deduct</i>	-0.51	
32 84 23 00-0500	LF	2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	12.71	3.24
		<i>For >1,000, Deduct</i>	-0.64	
32 84 23 00-0501	LF	2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	15.73	3.78
		<i>For >1,000, Deduct</i>	-0.79	
32 84 23 00-0502	LF	3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	19.42	5.44
		<i>For >1,000, Deduct</i>	-0.97	
32 84 23 00-0503	LF	4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	25.67	6.81
		<i>For >1,000, Deduct</i>	-1.28	
32 84 23 00-0504	LF	6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted	39.79	8.51
		<i>For >1,000, Deduct</i>	-1.99	



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0505 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted (32 84 23 00-0450)			
32 84 23 00-0506	LF 3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted For >1,000, Deduct	6.78 -0.34	1.70
32 84 23 00-0507	LF 1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted For >1,000, Deduct	7.70 -0.39	2.04
32 84 23 00-0508	LF 1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted For >1,000, Deduct	10.03 -0.50	2.58
32 84 23 00-0509	LF 2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted For >1,000, Deduct	12.47 -0.62	3.24
32 84 23 00-0510	LF 2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted For >1,000, Deduct	15.63 -0.78	3.78
32 84 23 00-0511	LF 3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted For >1,000, Deduct	19.07 -0.95	5.44
32 84 23 00-0512	LF 4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted For >1,000, Deduct	24.32 -1.22	6.81
32 84 23 00-0513	LF 6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted For >1,000, Deduct	34.39 -1.72	8.51
32 84 23 00-0514 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted (32 84 23 00-0450)			
32 84 23 00-0515	LF 3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted For >1,000, Deduct	7.02 -0.35	1.70
32 84 23 00-0516	LF 1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted For >1,000, Deduct	7.94 -0.40	2.04
32 84 23 00-0517	LF 1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted For >1,000, Deduct	10.28 -0.51	2.58
32 84 23 00-0518	LF 2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted For >1,000, Deduct	12.72 -0.64	3.24
32 84 23 00-0519	LF 2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted For >1,000, Deduct	15.88 -0.79	3.78
32 84 23 00-0520	LF 3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted For >1,000, Deduct	19.33 -0.97	5.44
32 84 23 00-0521	LF 4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted For >1,000, Deduct	24.57 -1.23	6.81
32 84 23 00-0522	LF 6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted For >1,000, Deduct	34.64 -1.73	8.51
32 84 23 00-0523 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted (32 84 23 00-0450)			
32 84 23 00-0524	LF 3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted For >1,000, Deduct	7.28 -0.36	1.70
32 84 23 00-0525	LF 1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted For >1,000, Deduct	8.19 -0.41	2.04
32 84 23 00-0526	LF 1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted For >1,000, Deduct	10.53 -0.53	2.58
32 84 23 00-0527	LF 2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted For >1,000, Deduct	12.96 -0.65	3.24
32 84 23 00-0528	LF 2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted For >1,000, Deduct	16.13 -0.81	3.78
32 84 23 00-0529	LF 3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted For >1,000, Deduct	19.57 -0.98	5.44
32 84 23 00-0530	LF 4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted For >1,000, Deduct	24.81 -1.24	6.81
32 84 23 00-0531	LF 6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted For >1,000, Deduct	34.88 -1.74	8.51
32 84 23 00-0532 Irrigation Riser Piping With Fittings (32 84 23 00-0420)			
32 84 23 00-0533	EA 1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 6" Exposed, Type IV Note: Includes #4 steel reinforcing bar, stainless steel hose clamp	20.39	4.08
32 84 23 00-0534	EA 3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 6" Exposed, Type IV Note: Includes #4 steel reinforcing bar, stainless steel hose clamp	22.18	5.11
32 84 23 00-0535	EA 1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 12" Exposed, Type IV Note: Includes #4 steel reinforcing bar, stainless steel hose clamp	22.03	4.77
32 84 23 00-0536	EA 3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 12" Exposed, Type IV Note: Includes #4 steel reinforcing bar, stainless steel hose clamp	24.23	5.95
32 84 23 00-0537	EA 1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 24" Exposed, Type I Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	43.61	7.15

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0538 EA 3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 24" Exposed, Type I Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	46.73	8.93
32 84 23 00-0539 EA 1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 36" Exposed, Type I Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	51.46	9.19
32 84 23 00-0540 EA 3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 36" Exposed, Type I Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	55.47	11.49
32 84 23 00-0541 EA 1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 48" Exposed, Type I Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	59.33	11.23
32 84 23 00-0542 EA 3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 48" Exposed, Type I Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	64.22	14.04
32 84 23 00-0543 Irrigation Crossover Piping With Fittings (32 84 23 00-0420) Note: Install per Caltrans details. Includes thrust blocks, HDPE sleeve pipe and fittings, 3" pvc irrigation piping and 1" electrical pvc conduit. Excludes #5 concrete irrigation pull boxes on ends, electrical control wiring. See CSI section 32 84 23 00-0105 for #5 concrete pull box, 32 84 23 00-0587 for irrigation wiring.		
32 84 23 00-0544 Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench (32 84 23 00-0543)		
32 84 23 00-0545 LF 6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation..... For >1,000, Deduct	44.33 -2.22	
32 84 23 00-0546 LF 8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation..... For >1,000, Deduct	62.21 -3.11	
32 84 23 00-0547 LF 10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation..... For >1,000, Deduct	85.22 -4.26	
32 84 23 00-0548 LF 12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation..... For >1,000, Deduct	112.18 -5.61	
32 84 23 00-0549 Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench (32 84 23 00-0543)		
32 84 23 00-0550 LF 6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation..... For >1,000, Deduct	45.08 -2.25	
32 84 23 00-0551 LF 8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation..... For >1,000, Deduct	63.03 -3.15	
32 84 23 00-0552 LF 10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation..... For >1,000, Deduct	86.13 -4.31	
32 84 23 00-0553 LF 12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation..... For >1,000, Deduct	113.17 -5.66	
32 84 23 00-0554 Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 48" Open Trench (32 84 23 00-0543)		
32 84 23 00-0555 LF 6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 48" Open Trench Installation..... For >1,000, Deduct	45.81 -2.29	
32 84 23 00-0556 LF 8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 48" Open Trench Installation..... For >1,000, Deduct	63.86 -3.19	
32 84 23 00-0557 LF 10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 48" Open Trench Installation..... For >1,000, Deduct	87.04 -4.35	
32 84 23 00-0558 LF 12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 48" Open Trench Installation..... For >1,000, Deduct	114.16 -5.71	
32 84 23 00-0559 Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore (32 84 23 00-0543)		
32 84 23 00-0560 LF 6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation For >1,000, Deduct	98.24 -4.91	
32 84 23 00-0561 LF 8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation For >1,000, Deduct	127.02 -6.35	
32 84 23 00-0562 LF 10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation For >1,000, Deduct	155.41 -7.77	
32 84 23 00-0563 LF 12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation For >1,000, Deduct	187.74 -9.39	
32 84 23 00-0564 Below Ground Cam Adapter Assembly (32 84 23 00-0420) Note: Includes minimum 6" depth gravel or crushed rock, woven wire cloth, jumbo valve box with 15" x 21.5" cover, 1-1/2" brass ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe		
32 84 23 00-0565 EA Below Ground Cam Adapter Assembly..... Note: Includes 6" depth gravel or crushed rock, woven wire cloth, jumbo valve box with 15" x 21.5" cover, 1-1/2" brass ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe.	856.77	
32 84 23 00-0566 Above Ground Cam Adapter Assembly (32 84 23 00-0420) Note: Includes concrete thrust block, 1-1/2" plastic ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe		
32 84 23 00-0567 EA Above Ground Cam Adapter Assembly..... Note: Includes concrete thrust block, 1-1/2" plastic ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe.	536.58	



Exterior Improvements			32
Irrigation			32 80
Planting Irrigation			32 84

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0568	Thrust Block (32 84 23 00-0420)		
32 84 23 00-0569	EA Thrust Block For 1-1/2" Pipe Size And Smaller	39.46	
32 84 23 00-0570	EA Thrust Block For 2" Pipe	68.60	
32 84 23 00-0571	EA Thrust Block For 3" And 4" Pipe	97.76	
32 84 23 00-0572	EA Thrust Block For 6" Pipe	156.59	
32 84 23 00-0573	EA Thrust Block For 8" Pipe	225.05	
32 84 23 00-0574	Irrigation Swing Joints (32 84 23)		
32 84 23 00-0575	EA 3/4" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint (Rain Bird® TSJ12075)	70.17	27.10
32 84 23 00-0576	EA 1" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint (Rain Bird® TSJ12)	79.64	30.25
32 84 23 00-0577	EA 1" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint With 70 PSI Pressure Regulator (Rain Bird® TSJ100PRS)	103.27	30.25
32 84 23 00-0578	EA 1/2" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I	56.56	35.31
	Note: Consists of three threaded 90 degree elbows and 12" threaded pipe.		
32 84 23 00-0579	EA 3/4" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I	75.56	47.10
	Note: Consists of three threaded 90 degree elbows and 12" threaded pipe.		
32 84 23 00-0580	EA 1" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I	94.77	57.76
	Note: Consists of three threaded 90 degree elbows and 12" threaded pipe.		
32 84 23 00-0581	EA 1/2" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type II	80.59	35.86
	Note: Consists of one threaded 90 degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.		
32 84 23 00-0582	EA 3/4" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type II	106.56	47.58
	Note: Consists of one threaded 90 degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.		
32 84 23 00-0583	EA 1" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type II	130.89	58.34
	Note: Consists of one threaded 90 degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.		
32 84 23 00-0584	EA 1/2" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III	45.58	21.96
	Note: Consists of two street 90 degree elbows.		
32 84 23 00-0585	EA 3/4" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III	60.90	29.29
	Note: Consists of two street 90 degree elbows.		
32 84 23 00-0586	EA 1" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III	72.16	36.31
	Note: Consists of two street 90 degree elbows.		
32 84 23 00-0587	Irrigation Control Wire (32 84 23)		
	Note: Excludes excavation and backfill.		
32 84 23 00-0588	18 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0587)		
32 84 23 00-0589	CLF 1-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	60.57	20.42
32 84 23 00-0590	CLF 2-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	78.35	23.83
32 84 23 00-0591	CLF 3-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	90.08	27.23
32 84 23 00-0592	CLF 4-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	102.92	30.64
32 84 23 00-0593	CLF 5-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	116.84	34.04
32 84 23 00-0594	CLF 6-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	138.47	37.43
32 84 23 00-0595	CLF 7-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	159.24	40.84
32 84 23 00-0596	CLF 8-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	172.98	44.24
32 84 23 00-0597	CLF 9-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	189.59	47.65
32 84 23 00-0598	CLF 10-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	208.48	51.05
32 84 23 00-0599	CLF 11-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	216.35	54.45
32 84 23 00-0600	CLF 12-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	225.35	57.86
32 84 23 00-0601	CLF 13-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench	237.84	61.26
32 84 23 00-0602	16 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0587)		
32 84 23 00-0603	CLF 1-Conductor, 16 AWG, Irrigation Control Wire, Buried In Trench	63.49	20.42
32 84 23 00-0604	14 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0587)		
32 84 23 00-0605	CLF 1-Conductor, 14 AWG, Irrigation Control Wire, Buried In Trench	63.50	20.42
32 84 23 00-0606	12 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0587)		
32 84 23 00-0607	CLF 1-Conductor, 12 AWG, Irrigation Control Wire, Buried In Trench	82.77	20.42
32 84 23 00-0608	10 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0587)		
32 84 23 00-0609	CLF 1-Conductor, 10 AWG, Irrigation Control Wire, Buried In Trench	107.20	20.42
32 84 23 00-0610	Root Watering Systems (32 84 23)		
	Note: Includes swing assembly.		
32 84 23 00-0611	EA 0.25 GPM Bubbler On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-1401)	110.83	27.23
	For Root Watering Sand Sock, Add	1.30	
32 84 23 00-0612	EA 0.25 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1401)	118.65	27.23
	For Root Watering Sand Sock, Add	1.30	
32 84 23 00-0613	EA 0.5 GPM Bubbler On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-1402)	110.83	27.23
	For Root Watering Sand Sock, Add	1.30	

32 Exterior Improvements**32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0614	EA	0.5 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1402).....	118.65	27.23
		<i>For Root Watering Sand Sock, Add</i>	1.30	
32 84 23 00-0615	EA	1 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1404).....	118.65	27.23
		<i>For Root Watering Sand Sock, Add</i>	1.30	
32 84 23 00-0616	EA	0.25 GPM Bubbler On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-1401).....	96.27	23.83
		<i>For Root Watering Sand Sock, Add</i>	1.30	
32 84 23 00-0617	EA	0.25 GPM Bubbler And Check Valve On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-C-1401).....	103.78	23.83
		<i>For Root Watering Sand Sock, Add</i>	1.30	
32 84 23 00-0618	EA	0.5 GPM Bubbler On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-1402).....	96.27	23.83
		<i>For Root Watering Sand Sock, Add</i>	1.30	
32 84 23 00-0619	EA	0.25 GPM Bubbler And Check Valve On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-C-1402).....	103.78	23.83
		<i>For Root Watering Sand Sock, Add</i>	1.30	
32 84 23 00-0620	EA	0.25 GPM Bubbler On Riser, 10" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-S-B-1401).....	66.71	20.42
		<i>For Root Watering Sand Sock, Add</i>	1.30	
32 84 23 00-0621	EA	0.25 GPM Bubbler And Check Valve On Riser, 10" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-S-B-C-1401).....	73.85	20.42
		<i>For Root Watering Sand Sock, Add</i>	1.30	

32 90 Planting ⁽³²⁾

Note: Plant installation includes the initial watering only. The extended watering period for the establishment of lawns, plants and trees is addressed on a per plant per amount per occurrence basis as directed in the specification. cvs = cultivar. See CSI section 32 01 90 26-0000 for additional "extended watering period" tasks.

32 91 Planting Preparation ^(32 90)**32 91 13 Soil Preparation** ^(32 91)**32 91 13 16 Mulching** ^(32 91 13)**32 91 13 16-0001 Mulch** ^(32 91 13 16)

Note: Includes loading, delivery up to 15 miles and spreading. 1 CY = 108 SF of mulch spread 3" thick. See CSI section 01 74 19 00-0029 for hauling greater than 15 miles.

32 91 13 16-0002	CY	Pea Gravel Mulch	101.92	
		<i>For >5 To 20, Deduct</i>	-8.46	
		<i>For >20 To 50, Deduct</i>	-12.70	
		<i>For >50, Deduct</i>	-17.79	
		<i>For Work On Slopes >2.5:1, Add</i>	13.47	
32 91 13 16-0003	CY	Stone/Gravel Mulch, Marble Chips	328.35	
		<i>For >5 To 20, Deduct</i>	-19.79	
		<i>For >20 To 50, Deduct</i>	-29.68	
		<i>For >50, Deduct</i>	-46.10	
		<i>For Work On Slopes >2.5:1, Add</i>	13.47	
32 91 13 16-0004	CY	Stone Mulch, Decomposed Granite Chips	185.38	
		<i>For >5 To 20, Deduct</i>	-12.64	
		<i>For >20 To 50, Deduct</i>	-18.96	
		<i>For >50, Deduct</i>	-28.22	
		<i>For Work On Slopes >2.5:1, Add</i>	13.47	
32 91 13 16-0005	CY	Pine Bark Nugget Mulch	127.70	
		<i>For >5 To 20, Deduct</i>	-9.75	
		<i>For >20 To 50, Deduct</i>	-14.63	
		<i>For >50, Deduct</i>	-21.01	
		<i>For Work On Slopes >2.5:1, Add</i>	13.47	
32 91 13 16-0006	CY	Hardwood Bark Nugget Mulch	125.28	
		<i>For >5 To 20, Deduct</i>	-9.63	
		<i>For >20 To 50, Deduct</i>	-14.45	
		<i>For >50, Deduct</i>	-20.71	
		<i>For Work On Slopes >2.5:1, Add</i>	13.47	
32 91 13 16-0007	CY	Pine Wood Chip Mulch	120.45	
		<i>For >5 To 20, Deduct</i>	-9.39	
		<i>For >20 To 50, Deduct</i>	-14.09	
		<i>For >50, Deduct</i>	-20.11	
		<i>For Work On Slopes >2.5:1, Add</i>	13.47	
32 91 13 16-0008	CY	Hardwood Chip Mulch.....	130.11	
		<i>For >5 To 20, Deduct</i>	-9.87	
		<i>For >20 To 50, Deduct</i>	-14.81	
		<i>For >50, Deduct</i>	-21.32	
		<i>For Work On Slopes >2.5:1, Add</i>	13.47	
32 91 13 16-0009	CY	Shredded Hardwood Mulch	130.11	
		<i>For >5 To 20, Deduct</i>	-9.87	
		<i>For >20 To 50, Deduct</i>	-14.81	
		<i>For >50, Deduct</i>	-21.32	
		<i>For Work On Slopes >2.5:1, Add</i>	13.47	
32 91 13 16-0010	CY	Shredded Pine Mulch.....	108.39	
		<i>For >5 To 20, Deduct</i>	-8.79	
		<i>For >20 To 50, Deduct</i>	-13.18	
		<i>For >50, Deduct</i>	-18.60	
		<i>For Work On Slopes >2.5:1, Add</i>	13.47	



Exterior Improvements			32
Planting			32 90
Planting Preparation			32 91

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 13 16-0011	CY		Shredded Cedar Mulch.....	155.45	
			For >5 To 20, Deduct	-11.14	
			For >20 To 50, Deduct	-16.71	
			For >50, Deduct	-24.48	
			For Work On Slopes >2.5:1, Add	13.47	
32 91 13 16-0012	CY		Shredded Cypress Mulch	151.83	
			For >5 To 20, Deduct	-10.96	
			For >20 To 50, Deduct	-16.44	
			For >50, Deduct	-24.03	
			For Work On Slopes >2.5:1, Add	13.47	
32 91 13 16-0013	CY		Shredded Redwood Mulch	161.48	
			For >5 To 20, Deduct	-11.44	
			For >20 To 50, Deduct	-17.16	
			For >50, Deduct	-25.24	
			For Work On Slopes >2.5:1, Add	13.47	
32 91 13 16-0014	CY		Chunk Recycled Tire Mulch	254.52	
			For >5 To 20, Deduct	-17.01	
			For >20 To 50, Deduct	-25.51	
			For >50, Deduct	-38.23	
			For Work On Slopes >2.5:1, Add	17.12	
32 91 13 16-0015	CY		Chunk Colored Recycled Tire Mulch	421.04	
			For >5 To 20, Deduct	-25.33	
			For >20 To 50, Deduct	-38.00	
			For >50, Deduct	-59.05	
			For Work On Slopes >2.5:1, Add	17.12	
32 91 13 16-0016	CY		Shredded Recycled Tire Mulch	423.46	
			For >5 To 20, Deduct	-25.45	
			For >20 To 50, Deduct	-38.18	
			For >50, Deduct	-59.35	
			For Work On Slopes >2.5:1, Add	17.12	
32 91 13 16-0017	CY		Shredded Colored Recycled Tire Mulch	756.51	
			For >5 To 20, Deduct	-42.10	
			For >20 To 50, Deduct	-63.16	
			For >50, Deduct	-100.98	
			For Work On Slopes >2.5:1, Add	17.12	
32 91 13 16-0018	EA		Pine Straw Mulch Bale.....	12.35	
			Note: Covers 50 SF at a thickness of 2" to 4" forming a uniform mat through which none of the original ground surface can be seen.		
			For >100 To 250, Deduct	-0.81	
			For >250 To 500, Deduct	-1.01	
			For >500, Deduct	-1.43	
			For Work On Slopes >2.5:1, Add	0.79	
32 91 13 16-0019	EA		Wheat Straw Mulch Bale	12.86	
			Note: Covers 350 SF forming a uniform mat through which 20 to 40% of the original ground surface can be seen.		
			For >100 To 250, Deduct	-0.79	
			For >250 To 500, Deduct	-0.94	
			For >500, Deduct	-1.43	
			For Work On Slopes >2.5:1, Add	0.59	
32 91 13 16-0020			Compost Soil Amendment (AgriService) (32 91 13 16)		
			Note: Includes loading, delivery up to 15 miles and spreading. See CSI section 01 74 19 00-0029 for hauling greater than 15 miles.		
32 91 13 16-0021	CY		Humic Compost (OIM).....	87.01	
			Note: (Agri Service or Equal)		
			For Work On Slopes >2.5:1, Add	13.47	
			For >100 To 1,000, Deduct	-14.45	
			For >1,000, Deduct	-22.17	
32 91 13 26			Planting Beds (32 91 13)		
			Note: Not for use when installing trees and shrubs.		
32 91 13 26-0001			Plant Bed Preparation (32 91 13 26)		
			Note: Not for use when installing trees and shrubs.		
32 91 13 26-0002	SF		Up To 8" Deep, Prepare And Mix Plant Bed, By Machine	1.08	
			Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
			For Work On Slopes >2.5:1, Add	0.22	
32 91 13 26-0003	SF		>8" To 13" Deep, Prepare And Mix Plant Bed, By Machine.....	1.24	
			Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
			For Work On Slopes >2.5:1, Add	0.25	
32 91 13 26-0004	SF		>13" To 18" Deep, Prepare And Mix Plant Bed, By Machine.....	1.46	
			Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
			For Work On Slopes >2.5:1, Add	0.29	
32 91 13 26-0005	SF		Up To 8" Deep, Prepare And Mix Plant Bed By Hand	4.96	
			Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
			For Work On Slopes >2.5:1, Add	0.99	
32 91 13 26-0006	SF		>8" To 13" Deep, Prepare And Mix Plant Bed By Hand.....	5.70	
			Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
			For Work On Slopes >2.5:1, Add	1.14	

32 Exterior Improvements**32 90 Planting****32 91 Planting Preparation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 13 26-0007	SF	>13" To 18" Deep, Prepare And Mix Plant Bed By Hand..... Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments. <i>For Work On Slopes >2.5:1, Add</i>	6.70 1.34	
32 91 13 26-0008		Plant Bed Preparation With Humic Compost (32 91 13 26)		
32 91 13 26-0009	SF	Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 3 CY Per 1,000 SF)..... Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface. <i>For Work On Slopes >2.5:1, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000 To 10,000, Deduct</i> <i>For >10,000 To 20,000, Deduct</i> <i>For >20,000, Deduct</i>	1.21 0.23 -0.17 -0.29 -0.58 -0.81	
32 91 13 26-0010	SF	Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 6 CY Per 1,000 SF)..... Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface. <i>For Work On Slopes >2.5:1, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000 To 10,000, Deduct</i> <i>For >10,000 To 20,000, Deduct</i> <i>For >20,000, Deduct</i>	1.50 0.28 -0.21 -0.35 -0.70 -0.98	
32 91 13 26-0011	SF	Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 9 CY Per 1,000 SF)..... Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface. <i>For Work On Slopes >2.5:1, Add</i> <i>For >1,000 To 5,000, Deduct</i> <i>For >5,000 To 10,000, Deduct</i> <i>For >10,000 To 20,000, Deduct</i> <i>For >20,000, Deduct</i>	1.79 0.32 -0.24 -0.40 -0.81 -1.15	
32 91 13 26-0012		Planting Pit Preparation (32 91 13 26)		
32 91 13 26-0013	CY	Excavate Planting Pit By Hand, Sandy Soil Note: For use with existing planting pits. <i>For Work On Slopes >2.5:1, Add</i>	85.78 17.16	
32 91 13 26-0014	CY	Excavate Planting Pit By Hand, Heavy Soil Note: For use with existing planting pits. <i>For Work On Slopes >2.5:1, Add</i>	171.58 34.32	
32 91 13 26-0015	CY	Excavate Planting Pit By Machine, Sandy Soil Note: For use with existing planting pits. <i>For Work On Slopes >2.5:1, Add</i>	13.33 2.67	
32 91 13 26-0016	CY	Excavate Planting Pit By Machine, Heavy Soil Note: For use with existing planting pits. <i>For Work On Slopes >2.5:1, Add</i>	17.35 3.47	
32 91 13 26-0017	CY	Backfill Planting Pit By Hand With Topsoil From Stockpile <i>For Work On Slopes >2.5:1, Add</i>	76.23 15.25	
32 91 13 26-0018	CY	Backfill Planting Pit By Hand With Contractor Furnished Planting Mix <i>For Work On Slopes >2.5:1, Add</i>	169.36 13.98	
32 91 13 26-0019	CY	Backfill Planting Pit By Machine, With Topsoil From Stockpile <i>For Work On Slopes >2.5:1, Add</i>	7.31 1.46	
32 91 13 26-0020	CY	Backfill Planting Pit By Machine, With Contractor Furnished Planting Mix..... <i>For Work On Slopes >2.5:1, Add</i>	118.22 3.75	
32 91 13 26-0021		Weed Barrier (32 91 13 26)		
32 91 13 26-0022	SY	Up To 3 Oz/SY Non Woven, Polypropylene Weed Barrier <i>For Work On Slopes >2.5:1, Add</i>	2.28 0.14	
32 91 13 26-0023	SY	4 Oz/SY Woven, Polypropylene Weed Barrier..... <i>For Work On Slopes >2.5:1, Add</i>	3.11 0.14	
32 91 13 26-0024	SY	5 Oz/SY Woven, Needle Punched Polypropylene Weed Barrier <i>For Work On Slopes >2.5:1, Add</i>	3.47 0.14	
32 91 13 33		Soil Conditioners (32 91 13)		
32 91 13 33-0001		Spread Soil Conditioners (32 91 13 33)		
32 91 13 33-0002	SY	Aluminum Sulfate 1 LB/SY, Push Spreader.....	0.33	
32 91 13 33-0003	MSF	Aluminum Sulfate 110 LB/MSF Tractor Spreader.....	30.69	
32 91 13 33-0004	MSF	Fertilizer, 20 LB/MSF, Push Spreader.....	6.76	
32 91 13 33-0005	MSF	Fertilizer, 20 LB/MSF, Tractor Spread.....	2.58	
32 91 13 33-0006	MSF	Fertilizer, 20 LB/MSF, Truck Spread.....	5.02	
32 91 13 33-0007	SY	Pelletized Lime, 1 LB/SY, Push Spreader.....	0.09	
32 91 13 33-0008	MSF	Pelletized Lime, 110 LB/MSF, Tractor Spreader.....	6.08	
32 91 13 33-0009	SY	Perlite, 1" Deep, Push Spreader.....	2.78	
32 91 13 33-0010	MSF	Perlite, 1" Deep, Tractor Spreader.....	287.52	
32 91 13 33-0011	SY	Vermiculite, Push Spreader.....	2.58	
32 91 13 33-0012	MSF	Vermiculite, Tractor Spreader.....	280.86	
32 91 13 33-0013	SY	Humate Granular Soil Conditioner, 0.10 LB/SY, Push Spreader.....	0.21	
32 91 13 33-0014	MSF	Humate Granular Soil Conditioner, 10 LB/MSF, Tractor Spreader.....	19.60	



Exterior Improvements		32
Planting		32 90
Planting Preparation		32 91

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 13 36 Lawn Bed Preparation (32 91 13)		
32 91 13 36-0001 Lawn Bed Preparation (32 91 13 36)		
32 91 13 36-0002 MSF Rake Topsoil With Machine	83.54	
32 91 13 36-0003 MSF Rake Topsoil By Hand	68.62	
32 91 13 36-0004 MSF Screen Loam By Hand	45.75	
32 91 13 36-0005 SY Roll Topsoil With Machine	1.07	
32 91 13 36-0006 SY Roll Topsoil By Hand	3.06	
32 91 13 36-0007 MSF Removal Of Rocks And Debris With Machine	9.88	
32 91 13 36-0008 MSF Removal Of Rocks And Debris By Hand	30.83	
32 91 13 36-0009 MSF Root Raking And Loading, No Boulders	51.70	
For >45 to 225, Deduct	-36.19	
For >225, Deduct	-46.53	
32 91 13 36-0010 MSF Root Raking And Loading, With Boulders	86.16	
For >45 to 225, Deduct	-60.31	
For >225, Deduct	-77.54	
32 91 13 36-0011 MSF Up To 6" Deep Tilling Topsoil With Tractor	4.62	
32 91 13 36-0012 MSF >6" To 12" Deep Tilling Topsoil With Tractor	9.36	
For Work On Slopes >2.5:1, Add	1.87	
32 91 13 36-0013 SY Up To 2" Deep Tilling Topsoil With Rototiller	0.73	
32 91 13 36-0014 SY >2" To 4" Deep Tilling Topsoil With Rototiller	0.87	
32 91 13 36-0015 SY >4" To 6" Deep Tilling Topsoil With Rototiller	1.10	
32 91 13 36-0016 LF "V" Cut Soil For Edge Of Planting Beds	1.22	
32 91 13 36-0017 Sod Removal (32 91 13 36)		
32 91 13 36-0018 SY Removal Of Sod By Hand	5.78	
For Work On Slopes >2.5:1, Add	1.16	
32 91 13 36-0019 SY Removal Of Sod With Machine	0.62	
For Work On Slopes >2.5:1, Add	0.12	
32 91 13 36-0020 SY Pile Sod By Hand	3.43	
For Work On Slopes >2.5:1, Add	0.69	
32 91 13 36-0021 SY Pile Sod With Machine	1.17	
For Work On Slopes >2.5:1, Add	0.23	
32 91 19 Landscape Grading (32 91)		
32 91 19 13 Topsoil Placement and Grading (32 91 19)		
32 91 19 13-0001 Remove And Stockpile Topsoil On Site (32 91 19 13)		
32 91 19 13-0002 CY Removal Of Topsoil, 4" Deep Stockpile On Site	4.95	
32 91 19 13-0003 CY Removal Of Topsoil, 6" Deep Stockpile On Site	4.90	
32 91 19 13-0004 Screening Topsoil (32 91 19 13)		
32 91 19 13-0005 CY Screen Topsoil With Vibrating Screen, Wet Material (Organic)	10.84	
32 91 19 13-0006 CY Screen Topsoil With Vibrating Screen, Dry Material	7.23	
32 91 19 13-0007 Spreading Topsoil From Stockpile (32 91 19 13)		
32 91 19 13-0008 CY Spread Topsoil By Machine From Stockpile	7.98	
32 91 19 13-0009 CY Spread Topsoil By Hand From Stockpile	65.48	
32 91 19 13-0010 Furnish And Place Imported Screened Topsoil (32 91 19 13)		
Note: Includes delivery up to 15 miles from the closest approved source and spread by machine. Excludes hand spreading. See CSI section 01 74 19 00-0029 for hauling greater than 15 miles, 31 23 16 36-0030 for hand spreading.		
32 91 19 13-0011 SY Furnish And Place Imported Screened Topsoil, 2" Deep	6.04	
For Unscreened, Deduct	-1.04	
32 91 19 13-0012 SY Furnish And Place Imported Screened Topsoil, 4" Deep	11.76	
For Unscreened, Deduct	-2.08	
32 91 19 13-0013 SY Furnish And Place Imported Screened Topsoil, 6" Deep	17.25	
For Unscreened, Deduct	-3.13	
32 91 19 13-0014 SY Furnish And Place Imported Screened Topsoil, 9" Deep	25.30	
For Unscreened, Deduct	-4.69	
32 91 19 13-0015 SY Furnish And Place Imported Screened Topsoil, 12" Deep	33.34	
For Unscreened, Deduct	-6.25	
32 91 19 13-0016 CY Furnish And Place Imported Screened Topsoil, Over 12" Deep	94.91	
For Unscreened, Deduct	-18.75	
32 91 19 13-0017 Scarify Soil For Planting Preparation (32 91 19 13)		
Note: Ripped in multiple directions with 3" maximum clods.		
32 91 19 13-0018 MSF Up To 5,000 SF Scarify Up To 8" Soil With Machine	62.39	
32 91 19 13-0019 MSF >5,000 To 20,000 SF Scarify Up To 8" Soil With Machine	43.67	
32 91 19 13-0020 MSF >20,000 SF Scarify Up To 8" Soil With Machine	25.71	

32 92 Turf and Grasses (32 90)

32 Exterior Improvements**32 90 Planting****32 92 Turf and Grasses**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 92 16 Plugging (32 92)

32 92 16 00-0001 Bermuda Or Centipede Plugging, 1" Deep (32 92 16)

Note: Includes fine grade and soil preparation.

32 92 16 00-0002 6" On Center Plugging (32 92 16 00-0001)

32 92 16 00-0003	MSF	Plugging By Hand, 6" On Center	223.87
32 92 16 00-0004	MSF	Plugging By Walk Behind Planter, 6" On Center	32.75
32 92 16 00-0005	MSF	Plugging By Towed Planter, 6" On Center	24.97

32 92 16 00-0006 9" On Center Plugging (32 92 16 00-0001)

32 92 16 00-0007	MSF	Plugging By Hand, 9" On Center	171.67
32 92 16 00-0008	MSF	Plugging By Walk Behind Planter, 9" On Center	25.54
32 92 16 00-0009	MSF	Plugging By Towed Planter, 9" On Center	18.69

32 92 16 00-0010 12" On Center Plugging (32 92 16 00-0001)

32 92 16 00-0011	MSF	Plugging By Hand, 12" On Center	144.14
32 92 16 00-0012	MSF	Plugging By Walk Behind Planter, 12" On Center	17.19
32 92 16 00-0013	MSF	Plugging By Towed Planter, 12" On Center	11.92

32 92 19 Seeding (32 92)**32 92 19 13 Mechanical Seeding** (32 92 19)

Note: Includes fertilizing, liming, mixing, seeding and initial watering.

32 92 19 13-0001 Tractor Spreader Mechanical Seeding (32 92 19 13)

Note: Excludes straw.

32 92 19 13-0002	MSF	Common Bluegrass, Tractor Spreader	46.75
		Note: 4 LB/MSF spread rate.	
32 92 19 13-0003	MSF	Tall Fescue, Tractor Spreader	36.27
		Note: 5.5 LB/MSF spread rate.	
32 92 19 13-0004	MSF	Rye, Tractor Spreader	37.01
		Note: 10 LB/MSF spread rate.	
32 92 19 13-0005	MSF	Shade Mix, Tractor Spreader	40.79
		Note: 6 LB/MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass.	
32 92 19 13-0006	MSF	Turf Mix, Tractor Spreader	43.49
		Note: 4 LB/MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass.	
32 92 19 13-0007	MSF	Slope Mix, Tractor Spreader	39.88
		Note: 6 LB/MSF spread rate.	
32 92 19 13-0008	MSF	Utility Mix, Tractor Spreader	35.38
		Note: 7 LB/MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass.	
32 92 19 13-0009	MSF	Wild Flower Mix, Tractor Spreader	26.89
		Note: 0.10 LB/MSF spread rate.	
32 92 19 13-0010	MSF	Crown Vetch Mix, Tractor Spreader	94.05
		Note: 4 LB/MSF spread rate.	
32 92 19 13-0011	MSF	Athletic Mix, Tractor Spreader	54.33
		Note: 8 LB/MSF spread rate. Mixture of three varieties of drought resistant bluegrass, tall fescue and Kentucky bluegrass.	
32 92 19 13-0012	MSF	White Clover Mix, Tractor Spreader	26.79
		Note: 7 LB/MSF spread rate.	
32 92 19 13-0013	MSF	Ladino Clover Mix, Tractor Spreader	30.41
		Note: 7 LB/MSF spread rate.	

32 92 19 13-0014 Hydro Or Air Mechanical Seeding (32 92 19 13)

32 92 19 13-0015	MSF	Common Bluegrass, Hydro Or Air Seeding	94.07
		Note: 4 LB/MSF spread rate.	
		For Spot Areas Up To 1, Add	95.42
		For >1 To 4, Add	60.85
		For >4 To 7.5, Add	40.93
		For >7.5 To 10, Add	20.47
		For >45, Deduct	-7.33
		For Tackifier, Add	1.38
32 92 19 13-0016	MSF	Tall Fescue, Hydro Or Air Seeding	100.39
		Note: 5.5 LB/MSF spread rate.	
		For Spot Areas Up To 1, Add	97.95
		For >1 To 4, Add	62.11
		For >4 To 7.5, Add	41.56
		For >7.5 To 10, Add	20.78
		For >45, Deduct	-7.65
		For Tackifier, Add	1.38
32 92 19 13-0017	MSF	Rye, Hydro Or Air Spread	94.33
		Note: 10 LB/MSF spread rate.	
		For Spot Areas Up To 1, Add	95.53
		For >1 To 4, Add	60.90
		For >4 To 7.5, Add	40.96
		For >7.5 To 10, Add	20.48
		For >45, Deduct	-7.34
		For Tackifier, Add	1.38



Exterior Improvements		32
Planting		32 90
Turf and Grasses		32 92

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19 13-0018	MSF		Shade Mix, Hydro Or Air Seeding.....	94.07	
			Note: 6 LB/MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass.		
			For Spot Areas Up To 1, Add	95.42	
			For >1 To 4, Add	60.85	
			For >4 To 7.5, Add	40.93	
			For >7.5 To 10, Add	20.47	
			For >45, Deduct	-7.33	
			For Tackifier, Add	1.38	
32 92 19 13-0019	MSF		Turf Mix, Hydro Or Air Seeding.....	100.39	
			Note: 4 LB/MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass.		
			For Spot Areas Up To 1, Add	97.95	
			For >1 To 4, Add	62.11	
			For >4 To 7.5, Add	41.56	
			For >7.5 To 10, Add	20.78	
			For >45, Deduct	-7.65	
			For Tackifier, Add	1.38	
32 92 19 13-0020	MSF		Slope Mix, Hydro Or Air Seeding.....	97.68	
			Note: 6 LB/MSF spread rate.		
			For Spot Areas Up To 1, Add	96.87	
			For >1 To 4, Add	61.57	
			For >4 To 7.5, Add	41.29	
			For >7.5 To 10, Add	20.65	
			For >45, Deduct	-7.51	
			For Tackifier, Add	1.38	
32 92 19 13-0021	MSF		Utility Mix, Hydro Or Air Seeding.....	95.49	
			Note: 7 LB/MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass.		
			For Spot Areas Up To 1, Add	95.99	
			For >1 To 4, Add	61.13	
			For >4 To 7.5, Add	41.07	
			For >7.5 To 10, Add	20.54	
			For >45, Deduct	-7.40	
			For Tackifier, Add	1.38	
32 92 19 13-0022	MSF		Wild Flower Mix, Hydro Or Air Seeding.....	88.46	
			Note: 0.10 LB/MSF spread rate.		
			For Spot Areas Up To 1, Add	93.18	
			For >1 To 4, Add	59.72	
			For >4 To 7.5, Add	40.37	
			For >7.5 To 10, Add	20.19	
			For >45, Deduct	-7.05	
			For Tackifier, Add	1.38	
32 92 19 13-0023	MSF		Crown Vetch Mix, Hydro Or Air Seeding.....	151.84	
			Note: 4 LB/MSF spread rate.		
			For Spot Areas Up To 1, Add	118.53	
			For >1 To 4, Add	72.40	
			For >4 To 7.5, Add	46.71	
			For >7.5 To 10, Add	23.35	
			For >45, Deduct	-10.22	
			For Tackifier, Add	1.38	
32 92 19 13-0024	MSF		Athletic Mix, Hydro Or Air Seeding.....	132.00	
			Note: 8 LB/MSF spread rate. Mixture of three varieties of drought resistant bluegrass, tall fescue and Kentucky bluegrass.		
			For Spot Areas Up To 1, Add	110.59	
			For >1 To 4, Add	68.43	
			For >4 To 7.5, Add	44.72	
			For >7.5 To 10, Add	22.36	
			For >45, Deduct	-9.23	
			For Tackifier, Add	1.38	
32 92 19 13-0025	MSF		White Clover Mix, Hydro Or Air Seeding.....	79.89	
			Note: 7 LB/MSF spread rate.		
			For Spot Areas Up To 1, Add	89.75	
			For >1 To 4, Add	58.01	
			For >4 To 7.5, Add	39.51	
			For >7.5 To 10, Add	19.76	
			For >45, Deduct	-6.62	
			For Tackifier, Add	1.38	
32 92 19 13-0026	MSF		Ladino Clover Mix, Hydro Or Air Seeding.....	90.46	
			Note: 7 LB/MSF spread rate.		
			For Spot Areas Up To 1, Add	93.98	
			For >1 To 4, Add	60.12	
			For >4 To 7.5, Add	40.57	
			For >7.5 To 10, Add	20.29	
			For >45, Deduct	-7.15	
			For Tackifier, Add	1.38	
32 92 19 13-0027	MSF		60% Kentucky Bluegrass, 20% Creeping Red Fescue, 10% Red Top And 10% Domestic Rye, Hydro Or Air Spread.....	95.87	
			Note: 4 LB/MSF spread rate.		
			For Spot Areas Up To 1, Add	96.14	
			For >1 To 4, Add	61.21	
			For >4 To 7.5, Add	41.11	
			For >7.5 To 10, Add	20.56	
			For >45, Deduct	-7.42	
			For Tackifier, Add	1.38	
32 92 19 13-0028	MSF		2,500 LB/Acre, High Performance - Flexible Growth Medium.....	127.06	
			Note: Applied with seed. Excludes seed.		
			For >45, Deduct	-7.67	

32 Exterior Improvements**32 90 Planting****32 92 Turf and Grasses**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19 13-0029	MSF		3,000 LB/Acre, High Performance - Flexible Growth Medium.....	148.53	
			Note: Applied with seed. Excludes seed.		
			For >45, Deduct	-8.81	
32 92 19 13-0030	MSF		3,500 LB/Acre, High Performance - Flexible Growth Medium.....	170.09	
			Note: Applied with seed. Excludes seed.		
			For >45, Deduct	-9.95	
32 92 19 13-0031	MSF		4,000 LB/Acre, High Performance - Flexible Growth Medium.....	191.67	
			Note: Applied with seed. Excludes seed.		
			For >45, Deduct	-11.10	
32 92 19 13-0032	MSF		4,500 LB/Acre, High Performance - Flexible Growth Medium.....	213.36	
			Note: Applied with seed. Excludes seed.		
			For >45, Deduct	-12.27	
32 92 19 19			Seeding by Hand (32 92 19)		
			Note: Includes fertilizing, liming, mixing, seeding and initial watering.		
32 92 19 19-0001			Push Spreader Or Hand Seeding (32 92 19 19)		
			Note: Excludes straw.		
32 92 19 19-0002	MSF		Common Bluegrass, Push Spreader Or Hand	110.69	
			Note: 4 LB/MSF spread rate.		
			For >5 To 20, Deduct	-7.68	
			For >20 To 45, Deduct	-14.73	
			For >45, Deduct	-23.93	
32 92 19 19-0003	MSF		Tall Fescue, Push Spreader Or Hand	100.21	
			Note: 5.5 LB/MSF spread rate.		
			For >5 To 20, Deduct	-7.15	
			For >20 To 45, Deduct	-13.95	
			For >45, Deduct	-22.89	
32 92 19 19-0004	MSF		Rye, Push Spreader Or Hand	100.95	
			Note: 10 LB/MSF spread rate.		
			For >5 To 20, Deduct	-7.19	
			For >20 To 45, Deduct	-14.00	
			For >45, Deduct	-22.96	
32 92 19 19-0005	MSF		Shade Mix, Push Spreader Or Hand	104.73	
			Note: 6 LB/MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass.		
			For >5 To 20, Deduct	-7.38	
			For >20 To 45, Deduct	-14.29	
			For >45, Deduct	-23.34	
32 92 19 19-0006	MSF		Turf Mix, Push Spreader Or Hand	107.43	
			Note: 4 LB/MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass.		
			For >5 To 20, Deduct	-7.52	
			For >20 To 45, Deduct	-14.49	
			For >45, Deduct	-23.61	
32 92 19 19-0007	MSF		Slope Mix, Push Spreader Or Hand.....	103.82	
			Note: 6 LB/MSF spread rate.		
			For >5 To 20, Deduct	-7.34	
			For >20 To 45, Deduct	-14.22	
			For >45, Deduct	-23.25	
32 92 19 19-0008	MSF		Utility Mix, Push Spreader Or Hand	99.32	
			Note: 7 LB/MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass.		
			For >5 To 20, Deduct	-7.11	
			For >20 To 45, Deduct	-13.88	
			For >45, Deduct	-22.80	
32 92 19 19-0009	MSF		Wild Flower Mix, Push Spreader Or Hand	90.83	
			Note: 0.10 LB/MSF spread rate.		
			For >5 To 20, Deduct	-6.69	
			For >20 To 45, Deduct	-13.25	
			For >45, Deduct	-21.95	
32 92 19 19-0010	MSF		Crown Vetch Mix, Push Spreader Or Hand	157.99	
			Note: 4 LB/MSF spread rate.		
			For >5 To 20, Deduct	-10.04	
			For >20 To 45, Deduct	-18.28	
			For >45, Deduct	-28.66	
32 92 19 19-0011	MSF		Athletic Mix, Push Spreader Or Hand	118.27	
			Note: 8 LB/MSF spread rate. Mixture of drought resistant bluegrass, tall fescue and Kentucky bluegrass.		
			For >5 To 20, Deduct	-8.06	
			For >20 To 45, Deduct	-15.30	
			For >45, Deduct	-24.69	
32 92 19 19-0012	MSF		White Clover Mix, Push Spreader Or Hand	90.73	
			Note: 7 LB/MSF spread rate.		
			For >5 To 20, Deduct	-6.68	
			For >20 To 45, Deduct	-13.24	
			For >45, Deduct	-21.94	
32 92 19 19-0013	MSF		Ladino Clover Mix, Push Spreader Or Hand.....	94.35	
			Note: 7 LB/MSF spread rate.		
			For >5 To 20, Deduct	-6.86	
			For >20 To 45, Deduct	-13.51	
			For >45, Deduct	-22.30	
32 92 19 19-0014	MSF		100% Kentucky Bluegrass, Push Spreader Or Hand.....	112.40	
			Note: 3.3 LB/MSF spread rate.		
			For >5 To 20, Deduct	-7.76	
			For >20 To 45, Deduct	-14.86	
			For >45, Deduct	-24.11	



Exterior Improvements			32
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19 19-0015	MSF		70% Kentucky Bluegrass And 30% Fescue, Push Spreader Or Hand Note: 3.3 LB/MSF spread rate. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	107.44 -7.52 -14.49 -23.61	
32 92 19 19-0016	MSF		50% Kentucky Bluegrass And 50% Fescue, Push Spreader Or Hand Note: 3.3 LB/MSF spread rate. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	103.82 -7.34 -14.22 -23.25	
32 92 19 19-0017	MSF		50% Kentucky Bluegrass And 50% Perennial Rye, Push Spreader Or Hand..... Note: 4.4 LB/MSF spread rate. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	111.05 -7.70 -14.76 -23.97	
32 92 19 19-0018	MSF		60% Kentucky Bluegrass, 20% Creeping Red Fescue, 10% Red Top And 10% Domestic Rye, Push Spreader Or Hand..... Note: 3.3 LB/MSF spread rate. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	105.63 -7.43 -14.36 -23.43	
32 92 19 19-0019	MSF		40% Creeping Red Fescue, 30% Kentucky Bluegrass, 10% Red Top, And 20% Blue Tag Perennial Rye, Push Spreader Or Hand Note: 3.3 LB/MSF spread rate. For >5 To 20, Deduct For >20 To 45, Deduct For >45, Deduct	107.43 -7.52 -14.49 -23.61	

32 92 23 Sodding (32 92)

Note: Includes raking preparation, water thoroughly and allow surface to dry before planting, rolling of sod, sanding seams for (up to 16" wide by 24" long) squares or (up to 24" wide by 54" long) rolls and initial watering within 2 hours after planting.

32 92 23 00-0001	Tall Fescue Sod	(32 92 23)	
32 92 23 00-0002	MSF	Up To 1,000 SF, Tall Fescue Sod, Installed On Level Ground	2,324.01
		For Hybrid Fescue "Marathon", Add	161.65
32 92 23 00-0003	MSF	>1,000 To 4,000 SF, Tall Fescue Sod, Installed On Level Ground.....	1,880.90
		For Hybrid Fescue "Marathon", Add	121.76
32 92 23 00-0004	MSF	>4,000 To 8,000 SF, Tall Fescue Sod, Installed On Level Ground.....	1,590.13
		For Hybrid Fescue "Marathon", Add	101.81
32 92 23 00-0005	MSF	>8,000 SF, Tall Fescue Sod, Installed On Level Ground.....	1,353.23
		For Hybrid Fescue "Marathon", Add	81.86
32 92 23 00-0006	MSF	Up To 1,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes	2,659.30
		For Hybrid Fescue "Marathon", Add	161.65
32 92 23 00-0007	MSF	>1,000 To 4,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,166.67
		For Hybrid Fescue "Marathon", Add	121.76
32 92 23 00-0008	MSF	>4,000 To 8,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,787.27
		For Hybrid Fescue "Marathon", Add	101.81
32 92 23 00-0009	MSF	>8,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,520.88
		For Hybrid Fescue "Marathon", Add	81.86

32 92 23 00-0010 Kentucky Blue Grass Sod (32 92 23)

32 92 23 00-0011	MSF	Up To 1,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground	1,961.31
32 92 23 00-0012	MSF	>1,000 To 4,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground.....	1,608.87
32 92 23 00-0013	MSF	>4,000 To 8,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground.....	1,363.44
32 92 23 00-0014	MSF	>8,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground.....	1,171.88
32 92 23 00-0015	MSF	Up To 1,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes	2,296.60
32 92 23 00-0016	MSF	>1,000 To 4,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,894.64
32 92 23 00-0017	MSF	>4,000 To 8,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,560.58
32 92 23 00-0018	MSF	>8,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,339.53

32 93 Plants (32 90)**32 93 13 Ground Covers** (32 93)

Note: Materials only. See CSI section 32 93 83 00-0057 for installation and planting of ground cover.

32 93 13 00-0001	Ornamental Grasses	(32 93 13)	
32 93 13 00-0002	EA	1 Gallon, Cortaderia selloana - Pampas Grass	30.65
32 93 13 00-0003	EA	2 Gallon, Cortaderia selloana - Pampas Grass	56.66
32 93 13 00-0004	EA	3 Gallon, Cortaderia selloana - Pampas Grass	102.97
32 93 13 00-0005	EA	5 Gallon, Cortaderia selloana - Pampas Grass	187.42
32 93 13 00-0006	EA	1 Quart, Imperata cylindrica - Japanese Blood Grass	23.46
32 93 13 00-0007	EA	1 Gallon, Imperata cylindrica - Japanese Blood Grass.....	31.20
32 93 13 00-0008	EA	2 Gallon, Imperata cylindrica - Japanese Blood Grass.....	33.39
32 93 13 00-0009	EA	1 Quart, Koeleria glauca - Blue Hair Grass.....	23.40
32 93 13 00-0010	EA	1 Gallon, Koeleria glauca - Blue Hair Grass	31.20
32 93 13 00-0011	EA	3 Gallon, Koeleria glauca - Blue Hair Grass	75.48
32 93 13 00-0012	EA	1 Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass.....	29.62
32 93 13 00-0013	EA	3 Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass.....	38.39
32 93 13 00-0014	EA	5 Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass.....	73.39
32 93 13 00-0015	EA	1 Gallon, Miscanthus sinensis 'Zebrinus' - Zebra Grass	27.49
32 93 13 00-0016	EA	3 Gallon, Miscanthus sinensis 'Zebrinus' - Zebra Grass	43.22

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 13 00-0017 EA 5 Gallon, Miscanthus sinensis 'Zebrinus' - Zebra Grass	73.97	
32 93 13 00-0018 EA 1 Quart, Pennisetum setaceum - Fountain Grass	25.59	
32 93 13 00-0019 EA 1 Gallon, Pennisetum setaceum - Fountain Grass	65.10	
32 93 13 00-0020 EA 3 Gallon, Pennisetum setaceum - Fountain Grass	85.83	
32 93 13 00-0021 EA 1 Gallon, Saccharum ravennae - Ravenna Grass	81.03	
32 93 13 00-0022 EA 3 Gallon, Saccharum ravennae - Ravenna Grass	91.02	
32 93 13 00-0023 EA 7 Gallon, Saccharum ravennae - Ravenna Grass	150.16	
32 93 13 00-0024 EA 1 Gallon, Spartina pectinata - Variegated Cord Grass	43.99	
32 93 13 00-0025 EA 2 Gallon, Spartina pectinata - Variegated Cord Grass	65.85	
32 93 13 00-0026 EA 1 Quart, Stipa gigantea - Giant Feather Grass	33.58	
32 93 13 00-0027 EA 1 Gallon, Stipa gigantea - Giant Feather Grass	46.80	
32 93 13 00-0028 Ground Covers (32 93 13)		
32 93 13 00-0029 EA 1 Gallon Acorus gramineus - Japanese Sweet Flag	20.24	
32 93 13 00-0030 EA 3" Pot Ajuga reptans - Carpet Bugle	4.86	
32 93 13 00-0031 EA 1 Quart Ajuga reptans - Carpet Bugle	8.09	
32 93 13 00-0032 EA 1 Gallon Ajuga reptans - Carpet Bugle	19.43	
32 93 13 00-0033 EA 24 Plant Flat Ajuga reptans - Carpet Bugle	83.66	
32 93 13 00-0034 EA 2 Gallon Aristolochia macrophylla - Dutchman's Pipe	67.47	
32 93 13 00-0035 EA 5 Gallon Aristolochia macrophylla - Dutchman's Pipe	123.60	
32 93 13 00-0036 EA 1 Quart Arundo donax - Giant Reed	25.91	
32 93 13 00-0037 EA 1 Gallon Arundo donax - Giant Reed	37.24	
32 93 13 00-0038 EA 1 Quart Baccharis pilularis - Dwarf Coyote Bush	8.10	
32 93 13 00-0039 EA 1 Gallon Baccharis pilularis - Dwarf Coyote Bush	14.03	
32 93 13 00-0040 EA 3 Gallon Bougainvillea spectabilis - Bougainvillea	28.31	
32 93 13 00-0041 EA 1 Gallon Campsis radicans - Trumpet Creeper	29.69	
32 93 13 00-0042 EA 2 Gallon Campsis radicans - Trumpet Creeper	44.80	
32 93 13 00-0043 EA 5 Gallon Campsis radicans - Trumpet Creeper	107.95	
32 93 13 00-0044 EA 1 Quart Carex 'Bowles Golden' - Variegated Japanese Sedge	28.61	
32 93 13 00-0045 EA 1 Gallon Carex 'Bowles Golden' - Variegated Japanese Sedge	37.24	
32 93 13 00-0046 EA 1 Quart Carex hachijoensis - Variegated Japanese Sedge	14.57	
32 93 13 00-0047 EA 1 Gallon Carex hachijoensis - Variegated Japanese Sedge	20.24	
32 93 13 00-0048 EA 2 Gallon Carex hachijoensis - Variegated Japanese Sedge	31.58	
32 93 13 00-0049 EA 1 Gallon Cissus antarctica - Kangaroo Vine	15.65	
32 93 13 00-0050 EA 5 Gallon Cissus antarctica - Kangaroo Vine	49.12	
32 93 13 00-0051 EA 1 Gallon Cistaceae - Winkleaf Rock Rose	15.65	
32 93 13 00-0052 EA 5 Gallon Cistaceae - Winkleaf Rock Rose	53.44	
32 93 13 00-0053 EA 1 Gallon Cocculus laurifolius - Laurel-leaf Snailseed	15.65	
32 93 13 00-0054 EA 5 Gallon Cocculus laurifolius - Laurel-leaf Snailseed	56.13	
32 93 13 00-0055 EA 1 Gallon Coprosma kirkii - Prostrate Coprosma	13.49	
32 93 13 00-0056 EA 5 Gallon Coprosma kirkii - Prostrate Coprosma	49.12	
32 93 13 00-0057 EA 1 Gallon Cotoneaster dammeri - Bearberry Cotoneaster	26.45	
32 93 13 00-0058 EA 2 Gallon Cotoneaster dammeri - Bearberry Cotoneaster	50.20	
32 93 13 00-0059 EA 5 Gallon Cotoneaster dammeri - Bearberry Cotoneaster	88.52	
32 93 13 00-0060 EA 1 Gallon Distictis buccinatoria - Blood Red Trumpet Vine	16.73	
32 93 13 00-0061 EA 5 Gallon Distictis buccinatoria - Blood Red Trumpet Vine	58.83	
32 93 13 00-0062 EA 1 Quart Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper	19.27	
32 93 13 00-0063 EA 1 Gallon Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper	49.94	
32 93 13 00-0064 EA 24 Plant Flat Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper	83.66	
32 93 13 00-0065 EA 1 Gallon Euonymus fortunei 'Kewensis' - Wintercreeper	21.05	
32 93 13 00-0066 EA 2 Gallon Euonymus fortunei 'Kewensis' - Wintercreeper	42.10	
32 93 13 00-0067 EA 1 Quart Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue	11.34	
32 93 13 00-0068 EA 1 Gallon Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue	20.24	
32 93 13 00-0069 EA 2 Gallon Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue	31.58	
32 93 13 00-0070 EA 1 Gallon Gardenia jasminoides 'Radicans' - Creeping Gardenia	16.73	
32 93 13 00-0071 EA 5 Gallon Gardenia jasminoides 'Radicans' - Creeping Gardenia	55.05	
32 93 13 00-0072 EA 1 Gallon Gelsemium sempervirens - Carolina Jessamine	23.32	
32 93 13 00-0073 EA 5 Gallon Gelsemium sempervirens - Carolina Jessamine	84.20	
32 93 13 00-0074 EA 1 Quart Hakonechloa macra 'Aureola' - Golden Variegated Hakone Grass	28.61	
32 93 13 00-0075 EA 1 Gallon Hakonechloa macra 'Aureola' - Golden Variegated Hakone Grass	43.18	
32 93 13 00-0076 EA 1 Gallon Hardenbergia violacea - Happy Wanderer	19.43	
32 93 13 00-0077 EA 5 Gallon Hardenbergia violacea - Happy Wanderer	64.77	
32 93 13 00-0078 EA 2" To 3" Pot Hedera helix - English Ivy	4.86	
32 93 13 00-0079 EA 12" To 15" Runners Hedera helix - English Ivy	8.10	
32 93 13 00-0080 EA 1 Gallon Hedera helix - English Ivy	19.43	
32 93 13 00-0081 EA 50 Plant Flat Hedera helix - English Ivy	112.27	
32 93 13 00-0082 EA 3 Gallon Hibiscus, Assorted Colors	25.31	
32 93 13 00-0083 EA 1 Gallon Hydrangea petiolaris - Climbing Hydrangea	35.08	
32 93 13 00-0084 EA 2 Gallon Hydrangea petiolaris - Climbing Hydrangea	65.85	
32 93 13 00-0085 EA 5 Gallon Hydrangea petiolaris - Climbing Hydrangea	107.95	
32 93 13 00-0086 EA 1 Gallon Hymenocallis latifolia - Spider Lily	12.56	
32 93 13 00-0087 EA 3 Gallon Hymenocallis latifolia - Spider Lily	33.51	
32 93 13 00-0088 EA 1 Quart Hypericum perforatum - St. John's Wort	8.10	
32 93 13 00-0089 EA 1 Gallon Hypericum perforatum - St. John's Wort	19.43	
32 93 13 00-0090 EA 5 Gallon Hypericum perforatum - St. John's Wort	50.20	
32 93 13 00-0091 EA 1 Quart Iberis sempervirens - Candytuft	8.10	
32 93 13 00-0092 EA 1 Gallon Iberis sempervirens - Candytuft	19.43	
32 93 13 00-0093 EA 1 Gallon Ilex cornuta - Dwarf Holly	14.66	
32 93 13 00-0094 EA 3 Gallon Ilex cornuta - Dwarf Holly	31.41	
32 93 13 00-0095 EA 1 Gallon Jasminum polyanthum - Winter Jasmine	19.43	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 13 00-0096 EA 2 Gallon Jasminum polyanthum - Winter Jasmine.....	38.86	
32 93 13 00-0097 EA 5 Gallon Jasminum polyanthum - Winter Jasmine.....	67.47	
32 93 13 00-0098 EA 1 Gallon Jasminum volubile - Wax Jasmine.....	10.20	
32 93 13 00-0099 EA 1 Gallon Jasminum volubile - Wax Jasmine.....	25.31	
32 93 13 00-0100 EA 1 Gallon Juniperus davurica 'Parsonii' - Parson's Juniper.....	12.71	
32 93 13 00-0101 EA 3 Gallon Juniperus davurica 'Parsonii' - Parson's Juniper.....	28.31	
32 93 13 00-0102 EA 2 Gallon Juniperus horizontalis 'Plumosa Compacta' - Andorra Creeping Juniper.....	47.14	
32 93 13 00-0103 EA 1 Gallon Juniperus horizontalis 'Wiltoni' - Blue Rug Juniper.....	21.96	
32 93 13 00-0104 EA 1 Gallon Juniperus Horizontalis - Prostrate Juniper.....	22.13	
32 93 13 00-0105 EA 3 Gallon Juniperus Horizontalis - Prostrate Juniper.....	47.50	
32 93 13 00-0106 EA 5 Gallon Juniperus Horizontalis - Prostrate Juniper.....	70.17	
32 93 13 00-0107 EA 1 Gallon Lantana spp. Various Colors.....	11.46	
32 93 13 00-0108 EA 4" Pot Lantana camera - Common Lantana.....	4.86	
32 93 13 00-0109 EA 1 Gallon Lantana camera - Common Lantana.....	14.03	
32 93 13 00-0110 EA 1 Gallon Lantana sellowiana - Trailing Lantana.....	7.54	
32 93 13 00-0111 EA 4" Pot Lavandula angustifolia - English Lavender.....	7.02	
32 93 13 00-0112 EA 1 Quart Lavandula angustifolia - English Lavender.....	13.49	
32 93 13 00-0113 EA 1 Gallon Lavandula angustifolia - English Lavender.....	22.13	
32 93 13 00-0114 EA 1 Gallon Liriope Evergreen Giant, 6 To 8 Bibs Minimum.....	11.46	
32 93 13 00-0115 EA 1 Gallon Variegated Liriope Evergreen Giant, 6 To 8 Bibs Minimum.....	14.45	
32 93 13 00-0116 EA 3 Gallon Variegated Liriope Evergreen Giant, 6 To 8 Bibs Minimum.....	23.11	
32 93 13 00-0117 EA 1 Gallon Liriope muscari 'Big Blue' - Big Blue Liriope.....	9.06	
32 93 13 00-0118 EA 1 Gallon Liriope muscari 'Variegata' - Variegated Lilyturf.....	22.13	
32 93 13 00-0119 EA 2 Quart Liriope spicata - Creeping Lilyturf.....	14.03	
32 93 13 00-0120 EA 1 Gallon Liriope spicata - Creeping Lilyturf.....	25.37	
32 93 13 00-0121 EA 5 Gallon Liriope spicata - Creeping Lilyturf.....	53.44	
32 93 13 00-0122 EA Bare Root Liriope spicata - Creeping Liriope.....	3.54	
32 93 13 00-0123 EA 1 Gallon Lonicera x heckrottii - Gold Flame Honeysuckle.....	22.13	
32 93 13 00-0124 EA 2 Gallon Lonicera x heckrottii - Gold Flame Honeysuckle.....	42.10	
32 93 13 00-0125 EA 3" Pot Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle.....	4.86	
32 93 13 00-0126 EA 1 Gallon Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle.....	22.13	
32 93 13 00-0127 EA 2 Gallon Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle.....	42.10	
32 93 13 00-0128 EA 2 Quart Lysimachia nummularia - Creeping Jenny.....	8.10	
32 93 13 00-0129 EA 1 Gallon Lysimachia nummularia - Creeping Jenny.....	15.65	
32 93 13 00-0130 EA 1 Gallon Macfadyena unguis-cati - Cat Claw Vine.....	19.43	
32 93 13 00-0131 EA 5 Gallon Macfadyena unguis-cati - Cat Claw Vine.....	84.20	
32 93 13 00-0132 EA 1 Quart Moss Phlox, Creeping Phlox.....	8.10	
32 93 13 00-0133 EA 1 Gallon Moss Phlox, Creeping Phlox.....	19.43	
32 93 13 00-0134 EA 1 Gallon Nephrolepis exaltata - Common Boston Fern.....	10.20	
32 93 13 00-0135 EA 1 Quart Nepeta mussinii - Persian Catmint.....	8.10	
32 93 13 00-0136 EA 1 Gallon Nepeta mussinii - Persian Catmint.....	16.73	
32 93 13 00-0137 EA 4" Pot Ophiopogon Japonicus - Mondo grass.....	4.86	
32 93 13 00-0138 EA 1 Gallon Ophiopogon Japonicus - Mondo grass.....	19.43	
32 93 13 00-0139 EA 5 Gallon Ophiopogon Japonicus - Mondo grass.....	44.80	
32 93 13 00-0140 EA 2' To 3' High Oregon Holly-Grape.....	22.43	
32 93 13 00-0141 EA 1 Gallon Pachysandra terminalis - Pachysandra.....	29.22	
32 93 13 00-0142 EA 4" Pot Parthenocissus tricuspidata - Boston Ivy.....	10.79	
32 93 13 00-0143 EA 1 Gallon Parthenocissus tricuspidata - Boston Ivy.....	24.61	
32 93 13 00-0144 EA 5 Gallon Parthenocissus tricuspidata - Boston Ivy.....	67.36	
32 93 13 00-0145 EA 3" Pot Parthenocissus quinquefolia - Virginia Creeper.....	4.86	
32 93 13 00-0146 EA 1 Gallon Parthenocissus quinquefolia - Virginia Creeper.....	25.37	
32 93 13 00-0147 EA 1 Gallon Ranunculaceae - Clematis Varieties.....	27.89	
32 93 13 00-0148 EA 2 Gallon Ranunculaceae - Clematis Varieties.....	51.58	
32 93 13 00-0149 EA 3 Gallon Rhipsolepis umbellata 'Minor' - Dwarf Indian Hawthorn.....	31.41	
32 93 13 00-0150 EA 3" Pot Rosmarinus officinalis 'Prostratus' - Creeping Rosemary.....	4.86	
32 93 13 00-0151 EA 1 Gallon Rosmarinus officinalis 'Prostratus' - Creeping Rosemary.....	19.43	
32 93 13 00-0152 EA 2-1/4" Pot Securigera varia - Crown Vetch.....	3.24	
32 93 13 00-0153 EA 50 Plant Flat Securigera varia - Crown Vetch.....	109.57	
32 93 13 00-0154 EA 1 Quart Senecio cineraria - Dusty Miller.....	8.10	
32 93 13 00-0155 EA 1 Gallon Senecio cineraria - Dusty Miller.....	19.43	
32 93 13 00-0156 EA 1 Quart Stachys byzantina - Lamb's Ear.....	8.10	
32 93 13 00-0157 EA 1 Quart Stachys byzantina - Lamb's Ear.....	19.43	
32 93 13 00-0158 EA 1 Gallon Tradescantia spathacea - Dwarf Oyster Plant.....	10.47	
32 93 13 00-0159 EA 1 Gallon Tradescantia spathacea - Rhoec Discolor "Dwarf".....	10.20	
32 93 13 00-0160 EA 24" To 30" High Viburnum awabuki - Sweet Viburnum.....	68.31	
32 93 13 00-0161 EA 2 Quart Verbena peruviana "St. Paul" - St. Paul Verbena.....	10.26	
32 93 13 00-0162 EA 1 Gallon Verbena peruviana "St. Paul" - St. Paul Verbena.....	15.65	
32 93 13 00-0163 EA 2-1/4" Pot Vinca minor - Periwinkle.....	2.70	
32 93 13 00-0164 EA 4" Pot Vinca minor - Periwinkle.....	8.10	
32 93 13 00-0165 EA Bare Root Vinca minor - Periwinkle.....	2.70	
32 93 13 00-0166 EA 48 Plant Flat Vinca minor - Lesser Periwinkle.....	96.20	
32 93 13 00-0167 EA 2-1/4" Pot Vinca major - Variegated Greater Periwinkle.....	2.70	
32 93 13 00-0168 EA 4" Pot Vinca major - Variegated Greater Periwinkle.....	8.10	
32 93 13 00-0169 EA Bare Root Vinca major - Variegated Greater Periwinkle.....	2.70	
32 93 13 00-0170 EA 1 Quart Waldsteinia ternata - Barren Strawberry.....	8.10	
32 93 13 00-0171 EA 1 Gallon Waldsteinia ternata - Barren Strawberry.....	19.43	
32 93 13 00-0172 EA 1 Gallon Wisteria sinensis - Chinese Wisteria Vine.....	25.37	
32 93 13 00-0173 EA 3 Gallon Wisteria sinensis - Chinese Wisteria Vine.....	56.14	
32 93 13 00-0174 EA 5 Gallon Wisteria sinensis - Chinese Wisteria Vine.....	84.20	
32 93 13 00-0175 EA Flat Hedera canariensis - Algerian Ivy.....	24.14	
32 93 13 00-0176 EA 2-1/2" Pot Hedera canariensis - Algerian Ivy.....	6.37	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 13 00-0177	EA	Flat Gazania 'Copper King'	19.80	
32 93 13 00-0178	EA	1 Gallon Gazania 'Copper King'	6.76	
32 93 13 00-0179	EA	Flat Myoporum parvifolium - Myoporum	24.14	
32 93 13 00-0180	EA	1 Gallon Myoporum parvifolium - Myoporum	6.76	
32 93 13 00-0181	EA	5 Gallon Myoporum parvifolium - Myoporum	19.31	
32 93 13 00-0182	EA	1 Gallon Lantana montevidensis - Purple Lantana	6.76	
32 93 13 00-0183	EA	5 Gallon Lantana montevidensis - Purple Lantana	19.31	
32 93 13 00-0184	EA	Flat Carpobrotus - Ice Plant	18.35	
32 93 13 00-0185	EA	1 Gallon Carpobrotus - Ice Plant	7.73	

32 93 23 Plants and Bulbs (32 93)

Note: Materials only. See CSI section 32 93 83 00-0057 for installation and planting of bulbs and annuals.

32 93 23 00-0001 Perennials (32 93 23)

32 93 23 00-0002	EA	2 Quart Assorted Daylilies	15.65	
32 93 23 00-0003	EA	1 Gallon Assorted Daylilies	22.13	
32 93 23 00-0004	EA	2 Gallon Assorted Daylilies	36.70	
32 93 23 00-0005	EA	1 Quart Azure Penstemon	8.09	
32 93 23 00-0006	EA	1 Gallon Azure Penstemon	20.24	
32 93 23 00-0007	EA	1 Quart Balloon Flower	8.09	
32 93 23 00-0008	EA	1 Gallon Balloon Flower	20.24	
32 93 23 00-0009	EA	1 Quart Black-eyed Susan	8.09	
32 93 23 00-0010	EA	1 Gallon Black-eyed Susan	20.24	
32 93 23 00-0011	EA	2 Gallon Black-eyed Susan	26.18	
32 93 23 00-0012	EA	1 Quart Blackberry Lily	8.09	
32 93 23 00-0013	EA	1 Gallon Blackberry Lily	20.24	
32 93 23 00-0014	EA	1 Quart Blank Flower	8.09	
32 93 23 00-0015	EA	1 Gallon Blank Flower	18.62	
32 93 23 00-0016	EA	2 Gallon Blank Flower	26.18	
32 93 23 00-0017	EA	1 Quart Blazing Star, Gayfeather	8.09	
32 93 23 00-0018	EA	1 Gallon Blazing Star, Gayfeather	20.24	
32 93 23 00-0019	EA	1 Quart Bloodred Geranium	13.76	
32 93 23 00-0020	EA	1 Gallon Bloodred Geranium	23.21	
32 93 23 00-0021	EA	1 Quart Blue Plumbago	8.09	
32 93 23 00-0022	EA	1 Gallon Blue Plumbago	20.24	
32 93 23 00-0023	EA	1 Quart Blue Star	14.57	
32 93 23 00-0024	EA	1 Gallon Blue Star	23.21	
32 93 23 00-0025	EA	1 Quart Cardinal Flower	8.09	
32 93 23 00-0026	EA	1 Gallon Cardinal Flower	20.24	
32 93 23 00-0027	EA	4" Pot Columbine	4.86	
32 93 23 00-0028	EA	1 Quart Columbine	8.09	
32 93 23 00-0029	EA	1 Gallon Columbine	20.24	
32 93 23 00-0030	EA	1 Quart Common Globeflower	8.09	
32 93 23 00-0031	EA	1 Gallon Common Globeflower	20.24	
32 93 23 00-0032	EA	1 Quart Cottage Pink, Scotch Pink	8.09	
32 93 23 00-0033	EA	1 Quart Cottage Pink, Scotch Pink	20.24	
32 93 23 00-0034	EA	1 Gallon Astilbe 'Deutschland'	29.15	
32 93 23 00-0035	EA	1 Quart Diploid	10.26	
32 93 23 00-0036	EA	1 Gallon Diploid	23.21	
32 93 23 00-0037	EA	3 Gallon Diploid	39.94	
32 93 23 00-0038	EA	4" Pot Dune Sunflower	11.56	
32 93 23 00-0039	EA	1 Quart Evans Begonia	14.57	
32 93 23 00-0040	EA	1 Gallon Evans Begonia	26.18	
32 93 23 00-0041	EA	1 Quart False Dragonhead	8.09	
32 93 23 00-0042	EA	1 Gallon False Dragonhead	20.24	
32 93 23 00-0043	EA	1 Quart False Spirea	8.09	
32 93 23 00-0044	EA	1 Gallon False Spirea	26.18	
32 93 23 00-0045	EA	3 Gallon False Spirea	36.16	
32 93 23 00-0046	EA	2 Quart False Sunflower	12.95	
32 93 23 00-0047	EA	1 Gallon False Sunflower	20.24	
32 93 23 00-0048	EA	2 Gallon False Sunflower	26.18	
32 93 23 00-0049	EA	1 Gallon Foxglove	18.62	
32 93 23 00-0050	EA	2 Gallon Foxglove	26.18	
32 93 23 00-0051	EA	3 Gallon Foxglove	37.78	
32 93 23 00-0052	EA	1 Gallon Francee Hostas	32.78	
32 93 23 00-0053	EA	1 Quart Garden Phlox	8.09	
32 93 23 00-0054	EA	1 Gallon Garden Phlox	20.24	
32 93 23 00-0055	EA	2 Quart Golden Groundsel	17.27	
32 93 23 00-0056	EA	2 Gallon Golden Groundsel	34.82	
32 93 23 00-0057	EA	1 Quart Golden Star	8.09	
32 93 23 00-0058	EA	1 Gallon Golden Star	20.24	
32 93 23 00-0059	EA	1 Quart Goldenrod	8.09	
32 93 23 00-0060	EA	1 Gallon Goldenrod	20.24	
32 93 23 00-0061	EA	1 Gallon Happy Returns Daylilies	37.70	
32 93 23 00-0062	EA	4" Pot Hardy Aster, Michaelmas Daisy	4.86	
32 93 23 00-0063	EA	1 Quart Hardy Aster, Michaelmas Daisy	8.09	
32 93 23 00-0064	EA	1 Gallon Hardy Aster, Michaelmas Daisy	20.24	
32 93 23 00-0065	EA	1 Quart Hardy Chrysanthemum	7.02	
32 93 23 00-0066	EA	6" To 8" Pot Hardy Chrysanthemum	11.61	
32 93 23 00-0067	EA	1 Gallon Hardy Chrysanthemum	18.62	
32 93 23 00-0068	EA	1 Gallon Herbaceous Peony	28.88	



Exterior Improvements			32
Planting			32 90
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 23 00-0069	EA		2 Gallon Herbaceous Peony	46.15	
32 93 23 00-0070	EA		3 Gallon Herbaceous Peony	60.73	
32 93 23 00-0071	EA		4" Pot Japanese Anemone	4.86	
32 93 23 00-0072	EA		1 Quart Japanese Anemone	14.57	
32 93 23 00-0073	EA		2 Gallon Japanese Anemone	26.18	
32 93 23 00-0074	EA		2" Pot Japanese Spurge	2.88	
32 93 23 00-0075	EA		6" Pot Japanese Spurge	4.32	
32 93 23 00-0076	EA		1 Gallon Japanese Spurge	18.59	
32 93 23 00-0077	EA		1 Quart Oriental Poppy	11.61	
32 93 23 00-0078	EA		1 Gallon Oriental Poppy	23.21	
32 93 23 00-0079	EA		48 Plant Flat Pachysandra terminalis	96.20	
32 93 23 00-0080	EA		1 Gallon Pacific Coast Iris	15.92	
32 93 23 00-0081	EA		3 Gallon Pacific Coast Iris	30.23	
32 93 23 00-0082	EA		1 Gallon Palace Purple Coral Bells	30.65	
32 93 23 00-0083	EA		4" Pot Perennial Salvia	4.86	
32 93 23 00-0084	EA		1 Quart Perennial Salvia	8.09	
32 93 23 00-0085	EA		1 Gallon Perennial Salvia	20.24	
32 93 23 00-0086	EA		1 Quart Pincushion Flower	8.09	
32 93 23 00-0087	EA		1 Gallon Pincushion Flower	20.24	
32 93 23 00-0088	EA		2 Quart Plantain Lily	15.65	
32 93 23 00-0089	EA		1 Gallon Plantain Lily	22.13	
32 93 23 00-0090	EA		2 Gallon Plantain Lily	36.70	
32 93 23 00-0091	EA		3 Gallon Plantain Lily	69.36	
32 93 23 00-0092	EA		2 Quart Purple Coneflower	14.57	
32 93 23 00-0093	EA		1 Gallon Purple Coneflower	20.24	
32 93 23 00-0094	EA		2 Gallon Purple Coneflower	26.18	
32 93 23 00-0095	EA		1 Quart Purple Loosestrife	8.09	
32 93 23 00-0096	EA		1 Gallon Purple Loosestrife	20.24	
32 93 23 00-0097	EA		1 Quart Rose Mallow	15.92	
32 93 23 00-0098	EA		2 Gallon Rose Mallow	28.88	
32 93 23 00-0099	EA		3 Gallon Rose Mallow	49.39	
32 93 23 00-0100	EA		1 Gallon Autumn Joy Sedum	30.86	
32 93 23 00-0101	EA		1 Quart Siberian Iris	13.76	
32 93 23 00-0102	EA		2 Gallon Siberian Iris	26.18	
32 93 23 00-0103	EA		3 Gallon Siberian Iris	36.16	
32 93 23 00-0104	EA		1 Quart Speedwell	8.09	
32 93 23 00-0105	EA		1 Gallon Speedwell	20.24	
32 93 23 00-0106	EA		1 Quart Tetraploid	20.24	
32 93 23 00-0107	EA		1 Gallon Tetraploid	37.78	
32 93 23 00-0108	EA		3 Gallon Tetraploid	51.55	
32 93 23 00-0109	EA		1 Quart Threadleaf Coreopsis	8.09	
32 93 23 00-0110	EA		1 Gallon Threadleaf Coreopsis	20.24	
32 93 23 00-0111	EA		1 Quart Torch Lily	8.09	
32 93 23 00-0112	EA		1 Quart Bluebeard	14.57	
32 93 23 00-0113	EA		1 Gallon Bluebeard	21.59	
32 93 23 00-0114	EA		2 Gallon Bluebeard	31.58	
32 93 23 00-0115	Annuals (32 93 23)				
32 93 23 00-0116	EA		2-1/2" Pot Annual Flowers	3.76	
32 93 23 00-0117	EA		3" Pot Annual Flowers	5.08	
32 93 23 00-0118	EA		4" Pot Annual Flowers	10.86	
32 93 23 00-0119	EA		5-1/2" Pot Annual Flowers	14.44	
32 93 23 00-0120	EA		6" Pot Annual Flowers	28.60	
32 93 23 00-0121	EA		8" Pot Annual Flowers	47.67	
32 93 23 00-0122	EA		36 Plant Flat Annual Flowers	62.40	
32 93 23 00-0123	EA		48 Plant Flat Annual Flowers	70.78	
32 93 23 00-0124	Bulbs (32 93 23)				
32 93 23 00-0125	EA		Top Size Allium giganteum - Giant Ornamental Onion	13.06	
32 93 23 00-0126	EA		Top Size Allium sphaerocephalum - Drumstick Ornamental Onion	0.75	
32 93 23 00-0127	EA		Top Size Crocus Hybrid	0.85	
32 93 23 00-0128	EA		Top Size Eranthis hyemalis - Winter Aconite	1.11	
32 93 23 00-0129	EA		Top Size Galanthus nivalis - Snowdrops	1.41	
32 93 23 00-0130	EA		Top Size Iris reticulata cvs - Dutch Iris	0.55	
32 93 23 00-0131	EA		Top Size Muscari armeniacum - Grape Hyacinth	0.65	
32 93 23 00-0132	EA		Top Size Muscari latifolium - Grape Hyacinth	0.75	
32 93 23 00-0133	EA		Narcissus 'Carlton' - Carlton Daffodil DNI	4.52	
32 93 23 00-0134	EA		Narcissus 'Dutch Master' - Dutch Master Daffodil DNI	2.16	
32 93 23 00-0135	EA		Narcissus 'February Gold' - February Gold Daffodil DNI	2.26	
32 93 23 00-0136	EA		Narcissus 'Ice Follies' - Ice Follies Daffodil DNI	2.26	
32 93 23 00-0137	EA		Narcissus 'Mount Hood' - Mount Hood Daffodil DNI	2.36	
32 93 23 00-0138	EA		Narcissus 'Papillon Blanc' - Papillon Blanc Daffodil DNI	2.51	
32 93 23 00-0139	EA		Narcissus 'Pipit' - Pipit Daffodil DNI	2.36	
32 93 23 00-0140	EA		Narcissus 'Salome' - Salome Daffodil DNI	2.21	
32 93 23 00-0141	EA		Narcissus 'Tete A Tete' - Tete A Tete Daffodil DNI	2.36	
32 93 23 00-0142	EA		Narcissus 'Thalia' - Thalia Daffodil DNI	2.36	
32 93 23 00-0143	EA		Top Size Scilla siberica - Siberian Squill	0.70	
32 93 23 00-0144	EA		Top Size Tulip 'Angelique' - Angelique Tulip	2.01	
32 93 23 00-0145	EA		Top Size Tulip 'Apeldoorn' - Apeldoorn Tulip	1.51	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 23 00-0146 EA Top Size Tulip 'Apricot Beauty' - Apricot Beauty Tulip	2.01	
32 93 23 00-0147 EA Top Size Tulip 'Big Smile' - Big Smile Tulip	1.76	
32 93 23 00-0148 EA Top Size Tulip 'Black Parrot' - Black Parrot Tulip	2.51	
32 93 23 00-0149 EA Top Size Tulip 'Blue Heron' - Blue Heron Tulip	1.91	
32 93 23 00-0150 EA Top Size Tulip 'Cardinal' - Cardinal Tulip	1.66	
32 93 23 00-0151 EA Top Size Tulip 'Christmas Marvel' - Christmas Marvel Tulip	1.86	
32 93 23 00-0152 EA Top Size Tulip clusiana - Species Tulip	1.86	
32 93 23 00-0153 EA Top Size Tulip 'Elizabeth Arden' - Elizabeth Arden Tulip	1.86	
32 93 23 00-0154 EA Top Size Tulip 'Golden Apledoorn' - Golden Apledoorn Tulip	1.51	
32 93 23 00-0155 EA Top Size Tulip 'Golden Emperor' - Golden Emperor Tulip	1.46	
32 93 23 00-0156 EA Top Size Tulip 'Halcro' - Halcro Tulip	1.51	
32 93 23 00-0157 EA Top Size Tulip 'Ivory Floridale' - Ivory Floridale Tulip	2.51	
32 93 23 00-0158 EA Top Size Tulip 'Orange Emperor' - Orange Emperor Tulip	1.51	
32 93 23 00-0159 EA Top Size Tulip 'Passionale' - Passionale Tulip	2.01	
32 93 23 00-0160 EA Top Size Tulip 'Peach Blossom' - Peach Blossom Tulip	2.16	
32 93 23 00-0161 EA Top Size Tulip 'Peer Gynt' - Peer Gynt Tulip	2.26	
32 93 23 00-0162 EA Top Size Tulip 'Pink Diamond' - Pink Diamond Tulip	1.81	
32 93 23 00-0163 EA Top Size Tulip 'Pink Emperor' - Pink Emperor Tulip	1.71	
32 93 23 00-0164 EA Top Size Tulip praetens 'Fusilier' - Praetens Fusilier Tulip	1.86	
32 93 23 00-0165 EA Top Size Tulip 'Princeps' - Princeps Tulip	1.86	
32 93 23 00-0166 EA Top Size Tulip 'Red Riding Hood' - Red Riding Hood Tulip	1.46	
32 93 23 00-0167 EA Top Size Tulip saxatilis - Species Tulip	1.00	
32 93 23 00-0168 EA Top Size Tulip 'Shirley' - Shirley Tulip	1.51	
32 93 23 00-0169 EA Top Size Tulip 'Spring Green' - Spring Green Tulip	1.96	
32 93 23 00-0170 EA Top Size Tulip 'White Emperor' - White Emperor Tulip	1.51	
32 93 33 Shrubs (32 93)		
Note: (cvs = cultivar) materials only. See CSI section 32 93 83 00-0033 for installation and planting of shrubs.		
32 93 33 00-0001 Shrubs (32 93 33)		
32 93 33 00-0002 EA 1 Gallon Abelia x grandiflora - Abelia	14.56	
32 93 33 00-0003 EA 3 Gallon Abelia x grandiflora - Abelia	29.64	
32 93 33 00-0004 EA 5 Gallon Abelia x grandiflora - Abelia	56.90	
32 93 33 00-0005 EA 1 Gallon Abelia grandiflora 'Edward Goucher' - Pink Abelia	8.98	
32 93 33 00-0006 EA 5 Gallon Abelia grandiflora 'Edward Goucher' - Pink Abelia	22.21	
32 93 33 00-0007 EA 15 Gallon Abelia grandiflora 'Edward Goucher' - Pink Abelia	88.16	
32 93 33 00-0008 EA 3 Gallon Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	87.68	
32 93 33 00-0009 EA 18" Balled and Burlapped, Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	128.14	
32 93 33 00-0010 EA 24" Balled and Burlapped, Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	142.98	
32 93 33 00-0011 EA 30" Balled and Burlapped, Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	180.75	
32 93 33 00-0012 EA 36" Balled and Burlapped, Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye	200.98	
32 93 33 00-0013 EA 18" Balled and Burlapped, Aesculus parviflora - Bottlebrush Buckeye	40.47	
32 93 33 00-0014 EA 24" Balled and Burlapped, Aesculus parviflora - Bottlebrush Buckeye	53.95	
32 93 33 00-0015 EA 30" Balled and Burlapped, Aesculus parviflora - Bottlebrush Buckeye	67.44	
32 93 33 00-0016 EA 1 Gallon Agapanthus 'Peter Pan' - Lily of the Nile	8.98	
32 93 33 00-0017 EA 5 Gallon Agapanthus 'Peter Pan' - Lily of the Nile	22.21	
32 93 33 00-0018 EA 36" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry	37.24	
32 93 33 00-0019 EA 42" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry	43.82	
32 93 33 00-0020 EA 48" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry	52.58	
32 93 33 00-0021 EA 60" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry	61.34	
32 93 33 00-0022 EA 72" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry	74.49	
32 93 33 00-0023 EA 36" Balled and Burlapped, Aronia melanocarpa & cvs - Black Chokeberry	36.15	
32 93 33 00-0024 EA 42" Balled and Burlapped, Aronia melanocarpa & cvs - Black Chokeberry	38.34	
32 93 33 00-0025 EA 48" Balled and Burlapped, Aronia melanocarpa & cvs - Black Chokeberry	40.53	
32 93 33 00-0026 EA 60" Balled and Burlapped, Aronia melanocarpa & cvs - Black Chokeberry	46.01	
32 93 33 00-0027 EA 36" Balled and Burlapped, Aronia prunifolia - Purple-Fruited Chokeberry	36.70	
32 93 33 00-0028 EA 42" Balled and Burlapped, Aronia prunifolia - Purple-Fruited Chokeberry	38.89	
32 93 33 00-0029 EA 48" Balled and Burlapped, Aronia prunifolia - Purple-Fruited Chokeberry	41.08	
32 93 33 00-0030 EA 60" Balled and Burlapped, Aronia prunifolia - Purple-Fruited Chokeberry	43.27	
32 93 33 00-0031 EA 1 Gallon Aspidistra elatior - Cast Iron Plant	7.53	
32 93 33 00-0032 EA 2 Gallon Aspidistra elatior - Cast Iron Plant	17.42	
32 93 33 00-0033 EA 1 Gallon Aucuba japonica "Variegata" - Gold Dust Plant	8.83	
32 93 33 00-0034 EA 3 Gallon Aucuba japonica "Variegata" - Gold Dust Plant	19.42	
32 93 33 00-0035 EA 5 Gallon Aucuba japonica "Variegata" - Gold Dust Plant	26.24	
32 93 33 00-0036 EA 1 Gallon Baccharis pilularis 'Pigeon Point' - Dwarf Coyote Brush	8.98	
32 93 33 00-0037 EA 5 Gallon Baccharis pilularis 'Pigeon Point' - Dwarf Coyote Brush	22.21	
32 93 33 00-0038 EA 1 Gallon Baccharis pilularis 'Twin Peaks' - Dwarf Coyote Brush	8.98	
32 93 33 00-0039 EA 5 Gallon Baccharis pilularis 'Twin Peaks' - Dwarf Coyote Brush	22.21	
32 93 33 00-0040 EA 1 Gallon Bauhinia purpurea - Orange-eye Butterfly Bush	9.41	
32 93 33 00-0041 EA 2 Gallon Bauhinia purpurea - Orange-eye Butterfly Bush	13.77	
32 93 33 00-0042 EA 15" To 18" Berberis - Northern Bayberry	39.30	
32 93 33 00-0043 EA 2' To 2-1/2' Berberis - Northern Bayberry	49.89	
32 93 33 00-0044 EA 2-1/2' To 3' Berberis - Northern Bayberry	69.90	
32 93 33 00-0045 EA 1 Gallon Berberis Buxifolia 'Nana' - Barberry	10.14	
32 93 33 00-0046 EA 5 Gallon Berberis Buxifolia 'Nana' - Barberry	24.43	
32 93 33 00-0047 EA 18" To 24" Berberis julianae - Dwarf Wintergreen Barberry	42.01	
32 93 33 00-0048 EA 2' To 2-1/2' Berberis julianae - Dwarf Wintergreen Barberry	53.78	
32 93 33 00-0049 EA 2-1/2' To 3' Berberis julianae - Dwarf Wintergreen Barberry	68.72	
32 93 33 00-0050 EA 1 Gallon Berberis thunbergii - Crimson Pygmy Barberry	11.30	
32 93 33 00-0051 EA 2 Gallon Berberis thunbergii - Crimson Pygmy Barberry	22.24	
32 93 33 00-0052 EA 3 Gallon Berberis thunbergii - Crimson Pygmy Barberry	27.18	



Exterior Improvements		32
Planting	32 90	32
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MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
32 93 33 00-0053	EA	1 Gallon Berberis x mentorensis - Mentor Barberry.....	10.71	
32 93 33 00-0054	EA	5 Gallon Berberis x mentorensis - Mentor Barberry.....	30.24	
32 93 33 00-0055	EA	2' To 3' Berberis x mentorensis - Mentor Barberry.....	42.01	
32 93 33 00-0056	EA	3' To 4' Berberis x mentorensis - Mentor Barberry.....	64.84	
32 93 33 00-0057	EA	1 Gallon Buxus microphylla japonica - Japanese Boxwood.....	12.24	
32 93 33 00-0058	EA	5 Gallon Buxus microphylla japonica - Japanese Boxwood.....	32.83	
32 93 33 00-0059	EA	12" To 15" Buxus microphylla japonica - Japanese Boxwood.....	34.95	
32 93 33 00-0060	EA	15" To 18" Buxus microphylla japonica - Japanese Boxwood.....	44.95	
32 93 33 00-0061	EA	18" To 24" Buxus microphylla japonica - Japanese Boxwood.....	59.90	
32 93 33 00-0062	EA	24" To 30" Buxus microphylla japonica - Japanese Boxwood.....	89.90	
32 93 33 00-0063	EA	30" To 36" Buxus microphylla japonica - Japanese Boxwood.....	124.85	
32 93 33 00-0064	EA	12" To 15" Buxus sempervirens - Common Boxwood.....	34.95	
32 93 33 00-0065	EA	15" To 18" Buxus sempervirens - Common Boxwood.....	44.95	
32 93 33 00-0066	EA	18" To 24" Buxus sempervirens - Common Boxwood.....	59.90	
32 93 33 00-0067	EA	24" To 30" Buxus sempervirens - Common Boxwood.....	89.90	
32 93 33 00-0068	EA	2 Gallon Buxus Hybrid - Boxwood Cultivars.....	23.00	
32 93 33 00-0069	EA	5 Gallon Buxus Hybrid - Boxwood Cultivars.....	38.34	
32 93 33 00-0070	EA	5 Gallon Buxus microphylla & cvs - Little leaf Boxwood.....	100.78	
32 93 33 00-0071	EA	18" Balled and Burlapped, Buxus microphylla & cvs - Little leaf Boxwood.....	54.77	
32 93 33 00-0072	EA	24" Balled and Burlapped, Buxus microphylla & cvs - Little leaf Boxwood.....	74.49	
32 93 33 00-0073	EA	30" Balled and Burlapped, Buxus microphylla & cvs - Little leaf Boxwood.....	100.78	
32 93 33 00-0074	EA	1 Gallon Callistemon citrinus ' Little John' - Dwarf Bottle Bush.....	8.06	
32 93 33 00-0075	EA	5 Gallon Callistemon citrinus ' Little John' - Dwarf Bottle Bush.....	24.81	
32 93 33 00-0076	EA	15 Gallon Callistemon citrinus ' Little John' - Dwarf Bottle Bush.....	80.62	
32 93 33 00-0077	EA	5 Gallon Calycanthus floridus - Common Sweetshrub.....	36.15	
32 93 33 00-0078	EA	30" Balled and Burlapped, Calycanthus floridus - Common Sweetshrub.....	32.86	
32 93 33 00-0079	EA	36" Balled and Burlapped, Calycanthus floridus - Common Sweetshrub.....	43.82	
32 93 33 00-0080	EA	1 Gallon Camellia "Sasanqua" - Camellia.....	9.61	
32 93 33 00-0081	EA	3 Gallon Camellia "Sasanqua" - Camellia.....	20.50	
32 93 33 00-0082	EA	5 Gallon Camellia "Sasanqua" - Camellia.....	34.07	
32 93 33 00-0083	EA	7 Gallon Camellia "Sasanqua" - Camellia.....	50.74	
32 93 33 00-0084	EA	15 Gallon Camellia "Sasanqua" - Camellia.....	131.64	
32 93 33 00-0085	EA	1 Gallon Camellia japonica - Camellia.....	9.61	
32 93 33 00-0086	EA	3 Gallon Camellia japonica - Camellia.....	20.50	
32 93 33 00-0087	EA	5 Gallon Camellia japonica - Camellia.....	34.07	
32 93 33 00-0088	EA	5 Gallon Ceanothus americanus - New Jersey Tea.....	36.15	
32 93 33 00-0089	EA	1 Gallon Ceanothus Griseus Horizontalis 'Yankee Point' - Yankee Point Ceanothus.....	10.14	
32 93 33 00-0090	EA	5 Gallon Ceanothus Griseus Horizontalis 'Yankee Point' - Yankee Point Ceanothus.....	26.36	
32 93 33 00-0091	EA	5 Gallon Celastrus scandens - Bittersweet.....	36.15	
32 93 33 00-0092	EA	36" Balled and Burlapped, Celastrus scandens - Bittersweet.....	30.67	
32 93 33 00-0093	EA	5 Gallon Cephalanthus occidentalis - Buttonbush.....	36.15	
32 93 33 00-0094	EA	24" Balled and Burlapped, Cephalanthus occidentalis - Buttonbush.....	27.38	
32 93 33 00-0095	EA	30" Balled and Burlapped, Cephalanthus occidentalis - Buttonbush.....	30.67	
32 93 33 00-0096	EA	36" Balled and Burlapped, Cephalanthus occidentalis - Buttonbush.....	32.86	
32 93 33 00-0097	EA	18" To 24" Chaenomeles speciosa - Flowering Quince.....	31.54	
32 93 33 00-0098	EA	2' To 3' Chaenomeles speciosa - Flowering Quince.....	42.01	
32 93 33 00-0099	EA	3' To 4' Chaenomeles speciosa - Flowering Quince.....	64.84	
32 93 33 00-0100	EA	1 Gallon Cistus Hybridus - White Rockrose.....	8.98	
32 93 33 00-0101	EA	5 Gallon Cistus Hybridus - White Rockrose.....	22.21	
32 93 33 00-0102	EA	3 Gallon Clethra alnifolia & cvs - Summersweet Clethra.....	35.05	
32 93 33 00-0103	EA	18" Balled and Burlapped, Clethra alnifolia & cvs - Summersweet Clethra.....	37.79	
32 93 33 00-0104	EA	24" Balled and Burlapped, Clethra alnifolia & cvs - Summersweet Clethra.....	42.17	
32 93 33 00-0105	EA	30" Balled and Burlapped, Clethra alnifolia & cvs - Summersweet Clethra.....	44.36	
32 93 33 00-0106	EA	36" Balled and Burlapped, Clethra alnifolia & cvs - Summersweet Clethra.....	52.03	
32 93 33 00-0107	EA	1 Gallon Coleonema Pulchellum - Confetti Bush.....	8.98	
32 93 33 00-0108	EA	5 Gallon Coleonema Pulchellum - Confetti Bush.....	22.21	
32 93 33 00-0109	EA	15 Gallon Coleonema Pulchellum - Confetti Bush.....	104.00	
32 93 33 00-0110	EA	2' To 3' Cornus mas - Cornelian Cherry.....	49.89	
32 93 33 00-0111	EA	3' To 4' Cornus mas - Cornelian Cherry.....	62.37	
32 93 33 00-0112	EA	4' To 5' Cornus mas - Cornelian Cherry.....	79.90	
32 93 33 00-0113	EA	5' To 6' Cornus mas - Cornelian Cherry.....	109.79	
32 93 33 00-0114	EA	5 Gallon Cornus alba & cvs - Tartarian Dogwood.....	32.86	
32 93 33 00-0115	EA	36" Balled and Burlapped, Cornus alba & cvs - Tartarian Dogwood.....	23.00	
32 93 33 00-0116	EA	48" Balled and Burlapped, Cornus alba & cvs - Tartarian Dogwood.....	26.29	
32 93 33 00-0117	EA	60" Balled and Burlapped, Cornus alba & cvs - Tartarian Dogwood.....	32.86	
32 93 33 00-0118	EA	72" Balled and Burlapped, Cornus alba & cvs - Tartarian Dogwood.....	39.43	
32 93 33 00-0119	EA	36" Balled and Burlapped, Cornus amomum - Silky Dogwood.....	32.86	
32 93 33 00-0120	EA	5 Gallon Cornus obliqua - Blue Fruited Dogwood.....	36.15	
32 93 33 00-0121	EA	5 Gallon Cornus racemosa - Gray Dogwood.....	36.15	
32 93 33 00-0122	EA	36" Balled and Burlapped, Cornus racemosa - Gray Dogwood.....	32.86	
32 93 33 00-0123	EA	48" Balled and Burlapped, Cornus racemosa - Gray Dogwood.....	38.34	
32 93 33 00-0124	EA	60" Balled and Burlapped, Cornus racemosa - Gray Dogwood.....	41.62	
32 93 33 00-0125	EA	72" Balled and Burlapped, Cornus racemosa - Gray Dogwood.....	50.39	
32 93 33 00-0126	EA	36" Balled and Burlapped, Cornus sanguinea & cvs - Bloodtwig Dogwood.....	35.60	
32 93 33 00-0127	EA	48" Balled and Burlapped, Cornus sanguinea & cvs - Bloodtwig Dogwood.....	39.98	
32 93 33 00-0128	EA	60" Balled and Burlapped, Cornus sanguinea & cvs - Bloodtwig Dogwood.....	45.46	
32 93 33 00-0129	EA	24" Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood.....	28.48	
32 93 33 00-0130	EA	30" Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood.....	32.86	
32 93 33 00-0131	EA	36" Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood.....	35.05	
32 93 33 00-0132	EA	48" Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood.....	38.34	
32 93 33 00-0133	EA	60" Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood.....	42.72	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 33 00-0134	EA	5 Gallon Corylus americana - American Filbert	33.96
32 93 33 00-0135	EA	30" Balled and Burlapped, Corylus americana - American Filbert	38.34
32 93 33 00-0136	EA	36" Balled and Burlapped, Corylus americana - American Filbert	41.08
32 93 33 00-0137	EA	48" Balled and Burlapped, Corylus americana - American Filbert	44.36
32 93 33 00-0138	EA	24" Balled and Burlapped, Corylus avellana - Contorted Hazelnut	109.54
32 93 33 00-0139	EA	30" Balled and Burlapped, Corylus avellana - Contorted Hazelnut	142.40
32 93 33 00-0140	EA	36" Balled and Burlapped, Corylus avellana - Contorted Hazelnut	153.35
32 93 33 00-0141	EA	42" Balled and Burlapped, Corylus avellana - Contorted Hazelnut	197.17
32 93 33 00-0142	EA	48" Balled and Burlapped, Corylus avellana - Contorted Hazelnut	240.99
32 93 33 00-0143	EA	60" Balled and Burlapped, Corylus avellana - Contorted Hazelnut	273.85
32 93 33 00-0144	EA	5' To 6' Cotinus coggygia - Smoke Tree	104.85
32 93 33 00-0145	EA	6' To 8' Cotinus coggygia - Smoke Tree	157.21
32 93 33 00-0146	EA	8' To 10' Cotinus coggygia - Smoke Tree	237.12
32 93 33 00-0147	EA	5 Gallon Cotoneaster acutifolia & cvs - Peking Cotoneaster	27.38
32 93 33 00-0148	EA	18" Balled and Burlapped, Cotoneaster acutifolia & cvs - Peking Cotoneaster	27.38
32 93 33 00-0149	EA	24" Balled and Burlapped, Cotoneaster acutifolia & cvs - Peking Cotoneaster	28.48
32 93 33 00-0150	EA	12" To 15" Spread Cotoneaster adpressus - Creeping Cotoneaster	26.24
32 93 33 00-0151	EA	3 Gallon Cotoneaster apiculata & cvs - Cranberry Cotoneaster	28.48
32 93 33 00-0152	EA	18" Balled and Burlapped, Cotoneaster apiculata & cvs - Cranberry Cotoneaster	27.38
32 93 33 00-0153	EA	24" Balled and Burlapped, Cotoneaster apiculata & cvs - Cranberry Cotoneaster	28.48
32 93 33 00-0154	EA	1 Gallon Cotoneaster divaricatus - Spreading Cotoneaster	11.30
32 93 33 00-0155	EA	2' To 3' Cotoneaster divaricatus - Spreading Cotoneaster	34.95
32 93 33 00-0156	EA	3' To 4' Cotoneaster divaricatus - Spreading Cotoneaster	47.19
32 93 33 00-0157	EA	4' To 5' Cotoneaster divaricatus - Spreading Cotoneaster	79.90
32 93 33 00-0158	EA	1 Gallon Cotoneaster glaucophyllus - Gray Leaf Cotoneaster	8.98
32 93 33 00-0159	EA	5 Gallon Cotoneaster glaucophyllus - Gray Leaf Cotoneaster	22.21
32 93 33 00-0160	EA	1 Gallon Cotoneaster horizontalis - Rockspray Cotoneaster	11.30
32 93 33 00-0161	EA	2 Gallon Cotoneaster horizontalis - Rockspray Cotoneaster	22.24
32 93 33 00-0162	EA	1 Gallon Cotoneaster lacteus - Red Clusterberry	8.98
32 93 33 00-0163	EA	5 Gallon Cotoneaster lacteus - Red Clusterberry	22.21
32 93 33 00-0164	EA	15 Gallon Cotoneaster lacteus - Red Clusterberry	88.16
32 93 33 00-0165	EA	1 Gallon Dendromecon harfordii - Island Bush Poppy	20.67
32 93 33 00-0166	EA	5 Gallon Dendromecon harfordii - Island Bush Poppy	51.68
32 93 33 00-0167	EA	18" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	27.93
32 93 33 00-0168	EA	24" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	30.67
32 93 33 00-0169	EA	30" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	39.43
32 93 33 00-0170	EA	36" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	46.01
32 93 33 00-0171	EA	42" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	52.58
32 93 33 00-0172	EA	24" Balled and Burlapped, Diervilla sessilifolia - Southern Bush Honeysuckle	43.82
32 93 33 00-0173	EA	30" Balled and Burlapped, Diervilla sessilifolia - Southern Bush Honeysuckle	52.58
32 93 33 00-0174	EA	36" Balled and Burlapped, Diervilla sessilifolia - Southern Bush Honeysuckle	61.34
32 93 33 00-0175	EA	2 Gallon Diervilla splendens - Splendens Bush Honeysuckle	16.43
32 93 33 00-0176	EA	36" Balled and Burlapped, Diervilla splendens - Splendens Bush Honeysuckle	39.43
32 93 33 00-0177	EA	48" Balled and Burlapped, Diervilla splendens - Splendens Bush Honeysuckle	52.58
32 93 33 00-0178	EA	5 Gallon Elaeagnus angustifolia - Russian Olive	22.21
32 93 33 00-0179	EA	1 Gallon Elaeagnus ebbingei 'Gilt Edge' - Gilt Edge Silverberry	8.98
32 93 33 00-0180	EA	5 Gallon Elaeagnus ebbingei 'Gilt Edge' - Gilt Edge Silverberry	22.21
32 93 33 00-0181	EA	15 Gallon Elaeagnus ebbingei 'Gilt Edge' - Gilt Edge Silverberry	88.16
32 93 33 00-0182	EA	1 Gallon Elaeagnus pungens 'Fruitlandii' - Fruitland Silverberry	8.98
32 93 33 00-0183	EA	5 Gallon Elaeagnus pungens 'Fruitlandii' - Fruitland Silverberry	22.21
32 93 33 00-0184	EA	15 Gallon Elaeagnus pungens 'Fruitlandii' - Fruitland Silverberry	88.16
32 93 33 00-0185	EA	3' To 4' Elaeagnus umbellata - Autumn Olive	32.71
32 93 33 00-0186	EA	4' To 5' Elaeagnus umbellata - Autumn Olive	44.95
32 93 33 00-0187	EA	5' To 6' Elaeagnus umbellata - Autumn Olive	53.78
32 93 33 00-0188	EA	3' To 4' Elaeagnus angustifolia - Russian Olive	52.37
32 93 33 00-0189	EA	1 Gallon Escallonia x exoniensis 'Fradesii' - Pink Princess Escallonia	8.98
32 93 33 00-0190	EA	5 Gallon Escallonia x exoniensis 'Fradesii' - Pink Princess Escallonia	22.21
32 93 33 00-0191	EA	15 Gallon Escallonia x exoniensis 'Fradesii' - Pink Princess Escallonia	88.16
32 93 33 00-0192	EA	1 Gallon Euonymus - Gold Spot	9.42
32 93 33 00-0193	EA	2 Gallon Euonymus - Gold Spot	19.77
32 93 33 00-0194	EA	5 Gallon Euonymus - Gold Spot	27.18
32 93 33 00-0195	EA	1 Gallon Euonymus alatus - Winged Euonymus	8.04
32 93 33 00-0196	EA	3 Gallon Euonymus alatus - Winged Euonymus	23.18
32 93 33 00-0197	EA	24" Balled and Burlapped, Euonymus alatus - Winged Euonymus	31.24
32 93 33 00-0198	EA	30" Balled and Burlapped, Euonymus alatus - Winged Euonymus	39.05
32 93 33 00-0199	EA	36" Balled and Burlapped, Euonymus alatus - Winged Euonymus	53.66
32 93 33 00-0200	EA	42" Balled and Burlapped, Euonymus alatus - Winged Euonymus	66.26
32 93 33 00-0201	EA	48" Balled and Burlapped, Euonymus alatus - Winged Euonymus	78.10
32 93 33 00-0202	EA	54" Balled and Burlapped, Euonymus alatus - Winged Euonymus	100.78
32 93 33 00-0203	EA	5 Gallon Euonymus alatus - Winged Euonymus	28.97
32 93 33 00-0204	EA	60" Balled and Burlapped, Euonymus alatus - Winged Euonymus	125.97
32 93 33 00-0205	EA	30" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	49.29
32 93 33 00-0206	EA	36" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	58.60
32 93 33 00-0207	EA	42" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	76.68
32 93 33 00-0208	EA	48" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	92.01
32 93 33 00-0209	EA	60" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	113.92
32 93 33 00-0210	EA	18" To 24" Euonymus alatus - Winged Burning Bush	34.95
32 93 33 00-0211	EA	2' To 2-1/2' Euonymus alatus - Winged Burning Bush	41.19
32 93 33 00-0212	EA	2-1/2' To 3' Euonymus alatus - Winged Burning Bush	56.25
32 93 33 00-0213	EA	3' To 3-1/2' Euonymus alatus - Winged Burning Bush	67.43
32 93 33 00-0214	EA	3-1/2' To 4' Euonymus alatus - Winged Burning Bush	84.84

**Exterior Improvements 32**

Planting 32 90

Plants 32 93

32

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
32 93 33 00-0215	EA	4' To 5' Euonymus alatus - Winged Burning Bush	119.79		
32 93 33 00-0216	EA	5' To 6' Euonymus alatus - Winged Burning Bush	149.80		
32 93 33 00-0217	EA	6' To 8' Euonymus alatus - Winged Burning Bush	174.75		
32 93 33 00-0218	EA	15" To 18" Euonymus alatus - Dwarf Winged Burning Bush.....	34.95		
32 93 33 00-0219	EA	18" To 24" Euonymus alatus - Dwarf Winged Burning Bush.....	39.89		
32 93 33 00-0220	EA	2' To 2-1/2' Euonymus alatus - Dwarf Winged Burning Bush.....	48.72		
32 93 33 00-0221	EA	2-1/2' To 3' Euonymus alatus - Dwarf Winged Burning Bush.....	68.72		
32 93 33 00-0222	EA	3' To 3-1/2' Euonymus alatus - Dwarf Winged Burning Bush.....	81.20		
32 93 33 00-0223	EA	3-1/2' To 4' Euonymus alatus - Dwarf Winged Burning Bush.....	97.32		
32 93 33 00-0224	EA	4' To 5' Euonymus alatus - Dwarf Winged Burning Bush.....	137.33		
32 93 33 00-0225	EA	5' To 6' Euonymus alatus - Dwarf Winged Burning Bush.....	162.27		
32 93 33 00-0226	EA	36" Balled and Burlapped, Euonymus atropurpurea - Eastern Wahoo	29.58		
32 93 33 00-0227	EA	1 Gallon Euonymus fortunei - Wintercreeper	11.30		
32 93 33 00-0228	EA	2 Gallon Euonymus fortunei - Wintercreeper	22.24		
32 93 33 00-0229	EA	3 Gallon Euonymus fortunei - Wintercreeper	27.18		
32 93 33 00-0230	EA	5 Gallon Euonymus fortunei - Wintercreeper	32.24		
32 93 33 00-0231	EA	1 Gallon Euonymus japonicus - Evergreen Spindle.....	8.98		
32 93 33 00-0232	EA	5 Gallon Euonymus japonicus - Evergreen Spindle.....	22.21		
32 93 33 00-0233	EA	15 Gallon Euonymus japonicus - Evergreen Spindle.....	88.16		
32 93 33 00-0234	EA	2' To 3' Forsythia - Korean Forsythia	24.95		
32 93 33 00-0235	EA	3' To 4' Forsythia - Korean Forsythia	31.54		
32 93 33 00-0236	EA	4' To 5' Forsythia - Korean Forsythia	39.30		
32 93 33 00-0237	EA	30" Balled and Burlapped, Forsythia cvs - Forsythia cultivars	25.19		
32 93 33 00-0238	EA	36" Balled and Burlapped, Forsythia cvs - Forsythia cultivars	27.93		
32 93 33 00-0239	EA	48" Balled and Burlapped, Forsythia cvs - Forsythia cultivars	30.12		
32 93 33 00-0240	EA	18" Balled and Burlapped, Forsythia viridissima & cvs - Green Forsythia	26.29		
32 93 33 00-0241	EA	24" Balled and Burlapped, Forsythia viridissima & cvs - Green Forsythia	35.05		
32 93 33 00-0242	EA	24" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia.....	26.29		
32 93 33 00-0243	EA	30" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia.....	30.67		
32 93 33 00-0244	EA	36" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia.....	36.15		
32 93 33 00-0245	EA	42" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia.....	41.62		
32 93 33 00-0246	EA	48" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia.....	48.20		
32 93 33 00-0247	EA	2 Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla.....	37.24		
32 93 33 00-0248	EA	3 Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla.....	52.03		
32 93 33 00-0249	EA	5 Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla.....	54.77		
32 93 33 00-0250	EA	15" Balled and Burlapped, Fothergilla gardenii & cvs - Dwarf Fothergilla.....	56.96		
32 93 33 00-0251	EA	18" Balled and Burlapped, Fothergilla gardenii & cvs - Dwarf Fothergilla.....	61.34		
32 93 33 00-0252	EA	24" Balled and Burlapped, Fothergilla gardenii & cvs - Dwarf Fothergilla.....	74.49		
32 93 33 00-0253	EA	24" Balled and Burlapped, Fothergilla major - Large Fothergilla.....	96.39		
32 93 33 00-0254	EA	30" Balled and Burlapped, Fothergilla major - Large Fothergilla.....	109.54		
32 93 33 00-0255	EA	1 Gallon Gardenia jasminoides - Cape Jasmine.....	8.12		
32 93 33 00-0256	EA	3 Gallon Gardenia jasminoides - Cape Jasmine.....	21.30		
32 93 33 00-0257	EA	5 Gallon Gardenia jasminoides - Cape Jasmine.....	27.18		
32 93 33 00-0258	EA	1 Gallon Grevillea 'Noellii' - Noel's Grevillea.....	8.98		
32 93 33 00-0259	EA	5 Gallon Grevillea 'Noellii' - Noel's Grevillea.....	22.21		
32 93 33 00-0260	EA	15 Gallon Grevillea 'Noellii' - Noel's Grevillea.....	88.16		
32 93 33 00-0261	EA	36" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel	76.68		
32 93 33 00-0262	EA	48" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel	124.87		
32 93 33 00-0263	EA	60" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel	157.74		
32 93 33 00-0264	EA	72" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel	240.99		
32 93 33 00-0265	EA	84" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel	273.85		
32 93 33 00-0266	EA	1 Gallon Hedychium gartdnerum - Variegated Ginger.....	4.66		
32 93 33 00-0267	EA	3 Gallon Hedychium gartdnerum - Variegated Ginger.....	16.38		
32 93 33 00-0268	EA	5 Gallon Hedychium gartdnerum - Variegated Ginger.....	31.49		
32 93 33 00-0269	EA	1 Gallon Hibiscus rosa-sinensis - Hibiscus	11.94		
32 93 33 00-0270	EA	3 Gallon Hibiscus rosa-sinensis - Hibiscus	20.16		
32 93 33 00-0271	EA	5 Gallon Hibiscus rosa-sinensis - Hibiscus	30.48		
32 93 33 00-0272	EA	5 Gallon Hibiscus syriacus - Rose Of Sharon.....	31.54		
32 93 33 00-0273	EA	2' To 3' Hibiscus syriacus - Rose Of Sharon.....	26.83		
32 93 33 00-0274	EA	3' To 4' Hibiscus syriacus - Rose Of Sharon.....	36.24		
32 93 33 00-0275	EA	4' To 5' Hibiscus syriacus - Rose Of Sharon.....	52.37		
32 93 33 00-0276	EA	5' To 6' Hibiscus syriacus - Rose Of Sharon.....	72.37		
32 93 33 00-0277	EA	2 Gallon Hydrangea - Blue Hydrangea	22.24		
32 93 33 00-0278	EA	5 Gallon Hydrangea - Blue Hydrangea	31.30		
32 93 33 00-0279	EA	2' To 3' Hydrangea paniculata "Grandiflora" - Peegee Hydrangea	34.95		
32 93 33 00-0280	EA	3' To 4' Hydrangea paniculata "Grandiflora" - Peegee Hydrangea	39.89		
32 93 33 00-0281	EA	2 Gallon Hydrangea quercifolia - Oakleaf Hydrangea.....	22.24		
32 93 33 00-0282	EA	5 Gallon Hydrangea arborescens & cvs - Smooth Hydrangea	38.34		
32 93 33 00-0283	EA	30" Balled and Burlapped, Hydrangea arborescens & cvs - Smooth Hydrangea	41.62		
32 93 33 00-0284	EA	36" Balled and Burlapped, Hydrangea arborescens & cvs - Smooth Hydrangea	48.20		
32 93 33 00-0285	EA	4 Gallon Hydrangea macrophylla & cvs - Bigleaf Hydrangea	50.39		
32 93 33 00-0286	EA	18" Balled and Burlapped, Hydrangea macrophylla & cvs - Bigleaf Hydrangea	39.43		
32 93 33 00-0287	EA	24" Balled and Burlapped, Hydrangea macrophylla & cvs - Bigleaf Hydrangea	52.58		
32 93 33 00-0288	EA	3 Gallon Hydrangea paniculata & cvs - Panicle Hydrangea	23.00		
32 93 33 00-0289	EA	5 Gallon Hydrangea paniculata & cvs - Panicle Hydrangea	27.38		
32 93 33 00-0290	EA	18" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea	23.55		
32 93 33 00-0291	EA	24" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea	25.19		
32 93 33 00-0292	EA	30" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea	28.48		
32 93 33 00-0293	EA	36" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea	32.86		
32 93 33 00-0294	EA	48" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea	43.82		
32 93 33 00-0295	EA	18" Balled and Burlapped, Hydrangea quercifolia & cvs - Oakleaf Hydrangea.....	31.77		

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

32 93 33 00-0296	EA	24" Balled and Burlapped, Hydrangea quercifolia & cvs - Oakleaf Hydrangea.....	36.15	
32 93 33 00-0297	EA	30" Balled and Burlapped, Hydrangea quercifolia & cvs - Oakleaf Hydrangea.....	42.72	
32 93 33 00-0298	EA	2 Gallon Hypericum kalmianum - St. John's Wort.....	22.24	
32 93 33 00-0299	EA	3 Gallon Hypericum kalmianum - Kalm St. John's Wort.....	26.29	
32 93 33 00-0300	EA	24" Balled and Burlapped, Hypericum kalmianum - Kalm St. John's Wort.....	28.48	
32 93 33 00-0301	EA	1 Gallon Ilex "Carissa" - Holly.....	11.30	
32 93 33 00-0302	EA	2 Gallon Ilex "Carissa" - Holly.....	22.24	
32 93 33 00-0303	EA	5 Gallon Ilex "Carissa" - Holly.....	31.30	
32 93 33 00-0304	EA	18" To 24" Ilex - Gulfside Sweet Holly.....	30.01	
32 93 33 00-0305	EA	2' To 2-1/2' Ilex - Gulfside Sweet Holly.....	38.01	
32 93 33 00-0306	EA	2-1/2' To 3' Ilex - Gulfside Sweet Holly.....	49.31	
32 93 33 00-0307	EA	3' To 3-1/2' Ilex - Gulfside Sweet Holly.....	59.90	
32 93 33 00-0308	EA	3 Gallon Ilex cornuta - Dwarf Horned Holly.....	22.42	
32 93 33 00-0309	EA	1 Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly.....	11.30	
32 93 33 00-0310	EA	2 Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly.....	22.24	
32 93 33 00-0311	EA	5 Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly.....	32.24	
32 93 33 00-0312	EA	1 Gallon Ilex crenata - Hellers Japanese Holly.....	11.30	
32 93 33 00-0313	EA	2 Gallon Ilex crenata - Hellers Japanese Holly.....	24.71	
32 93 33 00-0314	EA	3 Gallon Ilex crenata - Hellers Japanese Holly.....	32.24	
32 93 33 00-0315	EA	2 Gallon Ilex crenata - Hetzi Japanese Holly.....	24.71	
32 93 33 00-0316	EA	3 Gallon Ilex crenata - Hetzi Japanese Holly.....	29.77	
32 93 33 00-0317	EA	2' To 3' Ilex crenata - Hetzi Japanese Holly.....	59.90	
32 93 33 00-0318	EA	3' To 4' Ilex crenata - Hetzi Japanese Holly.....	79.90	
32 93 33 00-0319	EA	2' To 3' Ilex opaca - American Holly.....	79.90	
32 93 33 00-0320	EA	3' To 4' Ilex opaca - American Holly.....	132.27	
32 93 33 00-0321	EA	4' To 5' Ilex opaca - American Holly.....	169.69	
32 93 33 00-0322	EA	5' To 6' Ilex opaca - American Holly.....	204.64	
32 93 33 00-0323	EA	6' To 7' Ilex opaca - American Holly.....	287.01	
32 93 33 00-0324	EA	7' To 8' Ilex opaca - American Holly.....	399.39	
32 93 33 00-0325	EA	8' To 10' Ilex opaca - American Holly.....	574.02	
32 93 33 00-0326	EA	10' To 12' Ilex opaca - American Holly.....	873.62	
32 93 33 00-0327	EA	12' To 14' Ilex opaca - American Holly.....	1,060.73	
32 93 33 00-0328	EA	14' To 16' Ilex opaca - American Holly.....	1,310.31	
32 93 33 00-0329	EA	2' To 3' Ilex verticillata - Winterberry (Female).....	79.90	
32 93 33 00-0330	EA	3' To 4' Ilex verticillata - Winterberry (Female).....	104.85	
32 93 33 00-0331	EA	2' To 3' Ilex verticillata - Winterberry (Male).....	64.84	
32 93 33 00-0332	EA	3' To 4' Ilex verticillata - Winterberry (Male).....	89.90	
32 93 33 00-0333	EA	4' To 5' Ilex verticillata - Winterberry (Male).....	104.85	
32 93 33 00-0334	EA	1 Gallon Ilex vomitoria - Yaupon Holly.....	10.59	
32 93 33 00-0335	EA	3 Gallon Ilex vomitoria - Yaupon Holly.....	21.30	
32 93 33 00-0336	EA	10 Gallon Ilex vomitoria - Yaupon Holly.....	74.84	
32 93 33 00-0337	EA	18" Balled and Burlapped, Ilex glabra compacta & cvs - Compact Inkberry Holly.....	33.96	
32 93 33 00-0338	EA	24" Balled and Burlapped, Ilex glabra compacta & cvs - Compact Inkberry Holly.....	38.34	
32 93 33 00-0339	EA	3 Gallon Ilex meserveae & cvs - Blue Holly.....	43.82	
32 93 33 00-0340	EA	18" Balled and Burlapped, Ilex meserveae & cvs - Blue Holly.....	40.53	
32 93 33 00-0341	EA	24" Balled and Burlapped, Ilex meserveae & cvs - Blue Holly.....	49.29	
32 93 33 00-0342	EA	5 Gallon Ilex verticillata & cvs - Common Winterberry.....	36.15	
32 93 33 00-0343	EA	24" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry.....	36.15	
32 93 33 00-0344	EA	30" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry.....	38.34	
32 93 33 00-0345	EA	36" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry.....	46.01	
32 93 33 00-0346	EA	42" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry.....	51.48	
32 93 33 00-0347	EA	48" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry.....	54.77	
32 93 33 00-0348	EA	60" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry.....	70.11	
32 93 33 00-0349	EA	4' To 5' Ilex x attenuata "Foster" - Holly.....	129.80	
32 93 33 00-0350	EA	5' To 6' Ilex x attenuata "Foster" - Holly.....	172.16	
32 93 33 00-0351	EA	6' To 7' Ilex x attenuata "Foster" - Holly.....	154.04	
32 93 33 00-0352	EA	7' To 8' Ilex x attenuata "Foster" - Holly.....	299.48	
32 93 33 00-0353	EA	1 Gallon Jasminum - Jasmine.....	2.90	
32 93 33 00-0354	EA	3 Gallon Jasminum - Jasmine.....	11.34	
32 93 33 00-0355	EA	3 Gallon Jasminum - Orange Jasmine.....	8.82	
32 93 33 00-0356	EA	4' - 5' Jasminum - Orange Jasmine.....	100.78	
32 93 33 00-0357	EA	6' - 7' Jasminum - Orange Jasmine.....	201.55	
32 93 33 00-0358	EA	8' - 10' Jasminum - Orange Jasmine.....	272.10	
32 93 33 00-0359	EA	3 Gallon Juniperus chinensis cvs - Chinese Juniper.....	38.34	
32 93 33 00-0360	EA	5 Gallon Juniperus chinensis cvs - Chinese Juniper.....	42.72	
32 93 33 00-0361	EA	18" Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper.....	56.96	
32 93 33 00-0362	EA	24" Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper.....	74.49	
32 93 33 00-0363	EA	30" Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper.....	87.63	
32 93 33 00-0364	EA	36" Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper.....	118.30	
32 93 33 00-0365	EA	48" Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper.....	162.12	
32 93 33 00-0366	EA	1 Gallon Juniperus horizontalis cvs - Creeping Juniper.....	18.27	
32 93 33 00-0367	EA	3 Gallon Juniperus horizontalis cvs - Creeping Juniper.....	38.34	
32 93 33 00-0368	EA	5 Gallon Juniperus horizontalis cvs - Creeping Juniper.....	42.72	
32 93 33 00-0369	EA	15" Balled and Burlapped, Juniperus horizontalis cvs - Creeping Juniper.....	46.01	
32 93 33 00-0370	EA	18" Balled and Burlapped, Juniperus horizontalis cvs - Creeping Juniper.....	50.39	
32 93 33 00-0371	EA	24" Balled and Burlapped, Juniperus horizontalis cvs - Creeping Juniper.....	61.34	
32 93 33 00-0372	EA	30" Balled and Burlapped, Juniperus horizontalis cvs - Creeping Juniper.....	74.49	
32 93 33 00-0373	EA	3 Gallon Juniperus procumbens cvs - Japanese Garden Juniper.....	29.58	
32 93 33 00-0374	EA	18" Balled and Burlapped, Juniperus procumbens cvs - Japanese Garden Juniper.....	35.05	
32 93 33 00-0375	EA	24" Balled and Burlapped, Juniperus procumbens cvs - Japanese Garden Juniper.....	48.20	
32 93 33 00-0376	EA	30" Balled and Burlapped, Juniperus procumbens cvs - Japanese Garden Juniper.....	61.34	

**Exterior Improvements 32**

Planting 32 90

Plants 32 93

32

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0377 EA 36" Balled and Burlapped, Juniperus procumbens cvs - Japanese Garden Juniper	74.49	
32 93 33 00-0378 EA 3 Gallon Juniperus sabina cvs - Savin Juniper	27.38	
32 93 33 00-0379 EA 5 Gallon Juniperus sabina cvs - Savin Juniper	32.86	
32 93 33 00-0380 EA 4 Gallon Juniperus virginiana cvs - Red Cedar Juniper	28.48	
32 93 33 00-0381 EA 36" Balled and Burlapped, Juniperus virginiana cvs - Red Cedar Juniper	54.77	
32 93 33 00-0382 EA 48" Balled and Burlapped, Juniperus virginiana cvs - Red Cedar Juniper	85.44	
32 93 33 00-0383 EA 60" Balled and Burlapped, Juniperus virginiana cvs - Red Cedar Juniper	107.35	
32 93 33 00-0384 EA 15" To 18" Kalmia latifolia - Mountain Laurel	44.95	
32 93 33 00-0385 EA 18" To 24" Kalmia latifolia - Mountain Laurel	59.90	
32 93 33 00-0386 EA 2' To 3' Kalmia latifolia - Mountain Laurel	87.31	
32 93 33 00-0387 EA 4' To 5' Kalmia latifolia - Mountain Laurel	159.68	
32 93 33 00-0388 EA 5' To 6' Kalmia latifolia - Mountain Laurel	244.65	
32 93 33 00-0389 EA 6' To 8' Kalmia latifolia - Mountain Laurel	374.44	
32 93 33 00-0390 EA 1 Gallon Kerria japonica - Kerria	10.00	
32 93 33 00-0391 EA 5 Gallon Kerria japonica - Kerria	31.30	
32 93 33 00-0392 EA 24" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush	31.77	
32 93 33 00-0393 EA 30" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush	36.15	
32 93 33 00-0394 EA 36" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush	39.43	
32 93 33 00-0395 EA 42" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush	46.01	
32 93 33 00-0396 EA 48" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush	52.58	
32 93 33 00-0397 EA 60" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush	65.72	
32 93 33 00-0398 EA 1 Gallon Lagerstroemia indica - Crape Myrtle	7.53	
32 93 33 00-0399 EA 5 Gallon Lagerstroemia indica - Crape Myrtle	26.83	
32 93 33 00-0400 EA 3' To 4' Lagerstroemia indica - Crape Myrtle	37.42	
32 93 33 00-0401 EA 4' To 5' Lagerstroemia indica - Crape Myrtle	54.96	
32 93 33 00-0402 EA 5' To 6' Lagerstroemia indica - Crape Myrtle	87.31	
32 93 33 00-0403 EA 7' To 8' Lagerstroemia indica - Crape Myrtle	113.37	
32 93 33 00-0404 EA 9' To 10' Lagerstroemia indica - Crape Myrtle	151.16	
32 93 33 00-0405 EA 11' To 12' Lagerstroemia indica - Crape Myrtle	314.92	
32 93 33 00-0406 EA 1 Gallon Leucothoe axillaris - Coast Leucothoe	11.30	
32 93 33 00-0407 EA 2 Gallon Leucothoe axillaris - Coast Leucothoe	24.71	
32 93 33 00-0408 EA 3 Gallon Leucothoe axillaris - Coast Leucothoe	29.77	
32 93 33 00-0409 EA 1 Gallon Ligustrum lucidum - Glossy Privet	6.94	
32 93 33 00-0410 EA 5 Gallon Ligustrum lucidum - Glossy Privet	21.30	
32 93 33 00-0411 EA 15 Gallon Ligustrum lucidum - Glossy Privet	99.79	
32 93 33 00-0412 EA 1 Gallon Ligustrum sinense - Variegated Chinese Privet	6.94	
32 93 33 00-0413 EA 2 Gallon Ligustrum sinense - Variegated Chinese Privet	14.95	
32 93 33 00-0414 EA 3 Gallon Ligustrum sinense - Variegated Chinese Privet	19.42	
32 93 33 00-0415 EA 36" Balled and Burlapped, Ligustrum vulgare & cvs - Common Privet	32.86	
32 93 33 00-0416 EA 48" Balled and Burlapped, Ligustrum vulgare & cvs - Common Privet	48.20	
32 93 33 00-0417 EA 60" Balled and Burlapped, Ligustrum vulgare & cvs - Common Privet	61.34	
32 93 33 00-0418 EA 72" Balled and Burlapped, Ligustrum vulgare & cvs - Common Privet	70.11	
32 93 33 00-0419 EA 5 Gallon Lindera benzoin - Spicebush	36.15	
32 93 33 00-0420 EA 36" Balled and Burlapped, Lindera benzoin - Spicebush	30.67	
32 93 33 00-0421 EA 48" Balled and Burlapped, Lindera benzoin - Spicebush	37.24	
32 93 33 00-0422 EA 2' To 3' Lonicera fragrantissima - Winter Honeysuckle	59.90	
32 93 33 00-0423 EA 3' To 4' Lonicera fragrantissima - Winter Honeysuckle	72.37	
32 93 33 00-0424 EA 30" Balled and Burlapped, Lonicera tatarica & cvs - Tatarian Honeysuckle	32.86	
32 93 33 00-0425 EA 36" Balled and Burlapped, Lonicera tatarica & cvs - Tatarian Honeysuckle	39.43	
32 93 33 00-0426 EA 42" Balled and Burlapped, Lonicera tatarica & cvs - Tatarian Honeysuckle	43.82	
32 93 33 00-0427 EA 48" Balled and Burlapped, Lonicera tatarica & cvs - Tatarian Honeysuckle	48.20	
32 93 33 00-0428 EA 1 Gallon Myrica cerifera - Wax Myrtle	6.30	
32 93 33 00-0429 EA 4 Gallon Myrica cerifera - Wax Myrtle	20.16	
32 93 33 00-0430 EA 7 Gallon Myrica cerifera - Wax Myrtle	44.09	
32 93 33 00-0431 EA 10 Gallon Myrica cerifera - Wax Myrtle	65.50	
32 93 33 00-0432 EA 15 Gallon Myrica cerifera - Wax Myrtle	100.78	
32 93 33 00-0433 EA 45 Gallon Myrica cerifera - Wax Myrtle	302.33	
32 93 33 00-0434 EA 1' - 2' Myrica cerifera - Wax Myrtle	8.82	
32 93 33 00-0435 EA 3' - 4' Myrica cerifera - Wax Myrtle	30.23	
32 93 33 00-0436 EA 5' - 6' Myrica cerifera - Wax Myrtle	55.43	
32 93 33 00-0437 EA 7' - 8' Myrica cerifera - Wax Myrtle	75.58	
32 93 33 00-0438 EA 9' - 10' Myrica cerifera - Wax Myrtle	100.78	
32 93 33 00-0439 EA 11' - 12' Myrica cerifera - Wax Myrtle	153.68	
32 93 33 00-0440 EA 3 Gallon Myrica pensylvanica - Northern Bayberry	32.86	
32 93 33 00-0441 EA 24" Balled and Burlapped, Myrica pensylvanica - Northern Bayberry	53.67	
32 93 33 00-0442 EA 30" Balled and Burlapped, Myrica pensylvanica - Northern Bayberry	78.87	
32 93 33 00-0443 EA 36" Balled and Burlapped, Myrica pensylvanica - Northern Bayberry	94.20	
32 93 33 00-0444 EA 48" Balled and Burlapped, Myrica pensylvanica - Northern Bayberry	98.59	
32 93 33 00-0445 EA 1 Gallon Myoporum laetum 'Carsonii' Multi - Coast Myoporum	8.98	
32 93 33 00-0446 EA 5 Gallon Myoporum laetum 'Carsonii' Multi - Coast Myoporum	22.21	
32 93 33 00-0447 EA 15 Gallon Myoporum laetum 'Carsonii' Multi - Coast Myoporum	88.16	
32 93 33 00-0448 EA 1 Gallon Nandina domestica - Heavenly Bamboo	11.30	
32 93 33 00-0449 EA 2 Gallon Nandina domestica - Heavenly Bamboo	24.71	
32 93 33 00-0450 EA 5 Gallon Nandina domestica - Heavenly Bamboo	37.42	
32 93 33 00-0451 EA 15 Gallon Nerium oleander - Oleander	96.47	
32 93 33 00-0452 EA 24" Box Nerium oleander - Oleander	346.67	
32 93 33 00-0453 EA 1 Gallon Osmanthus fragrans - Fragrant Tea Olive	6.94	
32 93 33 00-0454 EA 3 Gallon Osmanthus fragrans - Fragrant Tea Olive	18.83	
32 93 33 00-0455 EA 1 Gallon Philadelphus - Evergreen Mockorange	9.65	
32 93 33 00-0456 EA 5 Gallon Philadelphus - Evergreen Mockorange	31.30	
32 93 33 00-0457 EA 36" Balled and Burlapped, Philadelphus x virginialis & cvs - Mockorange	32.86	

32 Exterior Improvements**32 90 Planting****32 93 Plants**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT
UNIT COST DEMOLITION
UNIT COST

32 93 33 00-0458	EA	42" Balled and Burlapped, Philadelphus x virginialis & cvs - Mockorange.....	38.34	
32 93 33 00-0459	EA	48" Balled and Burlapped, Philadelphus x virginialis & cvs - Mockorange.....	43.82	
32 93 33 00-0460	EA	1 Gallon Photinia fraseri - Red-Tipped Photinia.....	8.98	
32 93 33 00-0461	EA	5 Gallon Photinia fraseri - Red-Tipped Photinia.....	22.21	
32 93 33 00-0462	EA	15 Gallon Photinia fraseri - Red-Tipped Photinia.....	88.16	
32 93 33 00-0463	EA	1 Gallon Phormium tenax - New Zealand Flax.....	9.46	
32 93 33 00-0464	EA	5 Gallon Phormium tenax - New Zealand Flax.....	22.69	
32 93 33 00-0465	EA	15 Gallon Phormium tenax - New Zealand Flax.....	96.47	
32 93 33 00-0466	EA	24" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark.....	32.86	
32 93 33 00-0467	EA	30" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark.....	38.34	
32 93 33 00-0468	EA	36" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark.....	43.82	
32 93 33 00-0469	EA	42" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark.....	54.77	
32 93 33 00-0470	EA	48" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark.....	65.72	
32 93 33 00-0471	EA	12" To 15" Spread Pieris - Mountain Andromeda.....	30.24	
32 93 33 00-0472	EA	15" To 18" Spread Pieris - Mountain Andromeda.....	64.84	
32 93 33 00-0473	EA	12" To 15" Pieris japonica - Japanese Andromeda.....	39.30	
32 93 33 00-0474	EA	15" To 18" Pieris japonica - Japanese Andromeda.....	44.95	
32 93 33 00-0475	EA	18" To 24" Pieris japonica - Japanese Andromeda.....	56.25	
32 93 33 00-0476	EA	2' To 2-1/2' Pieris japonica - Japanese Andromeda.....	79.90	
32 93 33 00-0477	EA	2-1/2' To 3' Pieris japonica - Japanese Andromeda.....	94.85	
32 93 33 00-0478	EA	24" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine.....	33.72	
32 93 33 00-0479	EA	30" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine.....	43.16	
32 93 33 00-0480	EA	36" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine.....	51.93	
32 93 33 00-0481	EA	48" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine.....	66.77	
32 93 33 00-0482	EA	60" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine.....	80.26	
32 93 33 00-0483	EA	72" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine.....	117.35	
32 93 33 00-0484	EA	30" Balled and Burlapped, Pinus mugo compacta - Dwarf Mugo Pine.....	72.84	
32 93 33 00-0485	EA	36" Balled and Burlapped, Pinus mugo compacta - Dwarf Mugo Pine.....	87.68	
32 93 33 00-0486	EA	48" Balled and Burlapped, Pinus mugo compacta - Dwarf Mugo Pine.....	116.68	
32 93 33 00-0487	EA	1 Gallon Pittosporum - Pittosporum.....	4.16	
32 93 33 00-0488	EA	3 Gallon Pittosporum - Pittosporum.....	10.71	
32 93 33 00-0489	EA	1 Gallon Pittosporum - Varigated Pittosporum.....	4.16	
32 93 33 00-0490	EA	3 Gallon Pittosporum - Varigated Pittosporum.....	10.71	
32 93 33 00-0491	EA	5 Gallon Pittosporum - Varigated Pittosporum.....	18.77	
32 93 33 00-0492	EA	1 Gallon Pittosporum eugenioides - Lemonwood.....	10.31	
32 93 33 00-0493	EA	5 Gallon Pittosporum eugenioides - Lemonwood.....	24.43	
32 93 33 00-0494	EA	1 Gallon Pittosporum tobira - Japanese Pittosporum.....	8.98	
32 93 33 00-0495	EA	5 Gallon Pittosporum tobira - Japanese Pittosporum.....	22.21	
32 93 33 00-0496	EA	15 Gallon Pittosporum tobira - Japanese Pittosporum.....	88.16	
32 93 33 00-0497	EA	2 Gallon Potentilla fruticosa & cvs - Bush Cinquefoil.....	18.62	
32 93 33 00-0498	EA	5 Gallon Potentilla fruticosa & cvs - Bush Cinquefoil.....	26.29	
32 93 33 00-0499	EA	18" Balled and Burlapped, Potentilla fruticosa & cvs - Bush Cinquefoil.....	19.72	
32 93 33 00-0500	EA	24" Balled and Burlapped, Potentilla fruticosa & cvs - Bush Cinquefoil.....	21.91	
32 93 33 00-0501	EA	30" Balled and Burlapped, Potentilla fruticosa & cvs - Bush Cinquefoil.....	31.77	
32 93 33 00-0502	EA	36" Balled and Burlapped, Potentilla fruticosa & cvs - Bush Cinquefoil.....	36.70	
32 93 33 00-0503	EA	1 Gallon Prunus caroliniana - Carolina Cherry Laurel.....	4.64	
32 93 33 00-0504	EA	5 Gallon Prunus caroliniana - Carolina Cherry Laurel.....	11.59	
32 93 33 00-0505	EA	15 Gallon Prunus caroliniana - Carolina Cherry Laurel.....	69.12	
32 93 33 00-0506	EA	15" To 18" Prunus laurocerasus - Cherry Laurel.....	17.68	
32 93 33 00-0507	EA	18" To 24" Prunus laurocerasus - Cherry Laurel.....	21.88	
32 93 33 00-0508	EA	24" To 30" Prunus laurocerasus - Cherry Laurel.....	28.47	
32 93 33 00-0509	EA	15" To 18" Prunus triloba - Double White Flowering Almond.....	15.79	
32 93 33 00-0510	EA	18" To 24" Prunus triloba - Double White Flowering Almond.....	20.21	
32 93 33 00-0511	EA	3' To 4' Prunus triloba - Double White Flowering Almond.....	32.24	
32 93 33 00-0512	EA	4' To 6' Prunus triloba - Double White Flowering Almond.....	64.56	
32 93 33 00-0513	EA	5 Gallon Prunus triloba - Pink Flowering Almond.....	19.42	
32 93 33 00-0514	EA	18" To 24" Prunus triloba - Pink Flowering Almond.....	21.81	
32 93 33 00-0515	EA	2' To 3' Prunus triloba - Pink Flowering Almond.....	25.36	
32 93 33 00-0516	EA	2' To 3' Prunus virginiana - Brilliant Chokeberry.....	17.24	
32 93 33 00-0517	EA	3' To 4' Prunus virginiana - Brilliant Chokeberry.....	21.16	
32 93 33 00-0518	EA	4' To 5' Prunus virginiana - Brilliant Chokeberry.....	25.36	
32 93 33 00-0519	EA	5' To 6' Prunus virginiana - Brilliant Chokeberry.....	29.05	
32 93 33 00-0520	EA	1 Gallon Punica granatum - Dwarf Pomegranate.....	7.41	
32 93 33 00-0521	EA	3 Gallon Punica granatum - Dwarf Pomegranate.....	21.89	
32 93 33 00-0522	EA	7 Gallon Punica granatum - Dwarf Pomegranate.....	44.95	
32 93 33 00-0523	EA	1 Gallon Pyracantha koidzumi "Santa Cruz" - Pyracantha.....	9.41	
32 93 33 00-0524	EA	5 Gallon Pyracantha koidzumi "Santa Cruz" - Pyracantha.....	31.30	
32 93 33 00-0525	EA	5 Gallon Espalier Pyracantha koidzumi "Santa Cruz" - Pyracantha.....	64.84	
32 93 33 00-0526	EA	1 Gallon Ralphiolepis indica - Indian Hawthorne.....	7.53	
32 93 33 00-0527	EA	2 Gallon Ralphiolepis indica - Indian Hawthorne.....	14.36	
32 93 33 00-0528	EA	5 Gallon Ralphiolepis indica - Indian Hawthorne.....	25.54	
32 93 33 00-0529	EA	1 Gallon Rhamnus californica - Coffeeberry.....	11.45	
32 93 33 00-0530	EA	5 Gallon Rhamnus californica - Coffeeberry.....	32.74	
32 93 33 00-0531	EA	15 Gallon Rhamnus californica - Coffeeberry.....	98.24	
32 93 33 00-0532	EA	4' To 5' Rhamnus frangula "Columnaris" - Tallhedge.....	57.43	
32 93 33 00-0533	EA	5' To 6' Rhamnus frangula "Columnaris" - Tallhedge.....	78.72	
32 93 33 00-0534	EA	6' To 8' Rhamnus frangula "Columnaris" - Tallhedge.....	102.38	
32 93 33 00-0535	EA	10' To 12' Rhamnus frangula "Columnaris" - Tallhedge.....	187.22	
32 93 33 00-0536	EA	1 Gallon Ralphiolepis indica 'Ballerina' - Ballerina Indian Hawthorn.....	9.56	
32 93 33 00-0537	EA	5 Gallon Ralphiolepis indica 'Ballerina' - Ballerina Indian Hawthorn.....	22.69	
32 93 33 00-0538	EA	15 Gallon Ralphiolepis indica 'Ballerina' - Ballerina Indian Hawthorn.....	96.47	

**Exterior Improvements 32**

Planting 32 90

Plants 32 93

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0539 EA 1 Gallon Rhododendron - Azalea Evergreen Hybrids.....	12.24	
32 93 33 00-0540 EA 2 Gallon Rhododendron - Azalea Evergreen Hybrids.....	24.71	
32 93 33 00-0541 EA 3 Gallon Rhododendron - Azalea Evergreen Hybrids.....	32.24	
32 93 33 00-0542 EA 5 Gallon Rhododendron - Azalea Evergreen Hybrids.....	37.42	
32 93 33 00-0543 EA 15" To 18" Rhododendron - Azalea Evergreen Hybrids.....	43.78	
32 93 33 00-0544 EA 18" To 24" Rhododendron - Azalea Evergreen Hybrids.....	54.95	
32 93 33 00-0545 EA 2' To 2-1/2' Rhododendron - Azalea Evergreen Hybrids.....	79.90	
32 93 33 00-0546 EA 2-1/2' To 3' Rhododendron - Azalea Evergreen Hybrids.....	112.26	
32 93 33 00-0547 EA 1 Gallon Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids.....	13.77	
32 93 33 00-0548 EA 2 Gallon Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids.....	24.71	
32 93 33 00-0549 EA 15" To 18" Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids.....	42.48	
32 93 33 00-0550 EA 18" To 24" Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids.....	54.95	
32 93 33 00-0551 EA 2' To 3' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids.....	79.90	
32 93 33 00-0552 EA 3' To 4' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids.....	117.32	
32 93 33 00-0553 EA 4' To 5' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids.....	157.21	
32 93 33 00-0554 EA 5 Gallon Rhododendron - Boxleaf Azara.....	31.30	
32 93 33 00-0555 EA 15 Gallon Rhododendron - Boxleaf Azara.....	112.26	
32 93 33 00-0556 EA 15" To 18" Rhododendron - Carolina Rhododendron.....	35.42	
32 93 33 00-0557 EA 18" To 24" Rhododendron - Carolina Rhododendron.....	62.37	
32 93 33 00-0558 EA 24" To 30" Rhododendron - Carolina Rhododendron.....	92.38	
32 93 33 00-0559 EA 2' To 3' Rhododendron - Five-leafed Azalea.....	42.01	
32 93 33 00-0560 EA 3' To 4' Rhododendron - Five-leafed Azalea.....	54.95	
32 93 33 00-0561 EA 4' To 5' Rhododendron - Five-leafed Azalea.....	72.37	
32 93 33 00-0562 EA 15" To 18" Rhododendron - Ghent Azalea.....	42.01	
32 93 33 00-0563 EA 18" To 24" Rhododendron - Ghent Azalea.....	52.37	
32 93 33 00-0564 EA 2' To 3' Rhododendron - Ghent Azalea.....	84.84	
32 93 33 00-0565 EA 3' To 4' Rhododendron - Ghent Azalea.....	117.32	
32 93 33 00-0566 EA 4' To 5' Rhododendron - Ghent Azalea.....	157.21	
32 93 33 00-0567 EA 5' To 6' Rhododendron - Ghent Azalea.....	209.70	
32 93 33 00-0568 EA 1 Gallon Rhododendron - Hybrid Rhododendron.....	13.77	
32 93 33 00-0569 EA 2 Gallon Rhododendron - Hybrid Rhododendron.....	29.77	
32 93 33 00-0570 EA 3 Gallon Rhododendron - Hybrid Rhododendron.....	42.25	
32 93 33 00-0571 EA 5 Gallon Rhododendron - Hybrid Rhododendron.....	47.19	
32 93 33 00-0572 EA 15" To 18" Rhododendron - Hybrid Rhododendron.....	39.89	
32 93 33 00-0573 EA 18" To 24" Rhododendron - Hybrid Rhododendron.....	54.95	
32 93 33 00-0574 EA 24" To 30" Rhododendron - Hybrid Rhododendron.....	74.84	
32 93 33 00-0575 EA 30" To 36" Rhododendron - Hybrid Rhododendron.....	87.32	
32 93 33 00-0576 EA 36" To 42" Rhododendron - Hybrid Rhododendron.....	124.85	
32 93 33 00-0577 EA 42" To 48" Rhododendron - Hybrid Rhododendron.....	154.74	
32 93 33 00-0578 EA 15" To 18" Rhododendron - Pjm Rhododendron.....	44.95	
32 93 33 00-0579 EA 18" To 24" Rhododendron - Pjm Rhododendron.....	54.95	
32 93 33 00-0580 EA 2' To 2-1/2' Rhododendron - Pjm Rhododendron.....	79.90	
32 93 33 00-0581 EA 2-1/2' To 3' Rhododendron - Pjm Rhododendron.....	102.38	
32 93 33 00-0582 EA 3' To 3-1/2' Rhododendron - Pjm Rhododendron.....	124.85	
32 93 33 00-0583 EA 12" To 15" Rhododendron - Torch Azalea.....	34.95	
32 93 33 00-0584 EA 15" To 18" Rhododendron - Torch Azalea.....	42.01	
32 93 33 00-0585 EA 18" To 24" Rhododendron - Torch Azalea.....	52.37	
32 93 33 00-0586 EA 2' To 3' Rhododendron - Torch Azalea.....	87.32	
32 93 33 00-0587 EA 3 Gallon Rhododendron cvs - Lepidote Rhododendron.....	39.43	
32 93 33 00-0588 EA 5 Gallon Rhododendron cvs - Lepidote Rhododendron.....	48.20	
32 93 33 00-0589 EA 18" Balled and Burlapped, Rhododendron cvs - Lepidote Rhododendron.....	59.15	
32 93 33 00-0590 EA 24" Balled and Burlapped, Rhododendron cvs - Lepidote Rhododendron.....	74.49	
32 93 33 00-0591 EA 30" Balled and Burlapped, Rhododendron cvs - Lepidote Rhododendron.....	87.63	
32 93 33 00-0592 EA 36" Balled and Burlapped, Rhododendron cvs - Lepidote Rhododendron.....	105.16	
32 93 33 00-0593 EA 1 Gallon Rhus glabra - Dwarf Smooth Sumac.....	11.30	
32 93 33 00-0594 EA 5 Gallon Rhus glabra - Dwarf Smooth Sumac.....	31.30	
32 93 33 00-0595 EA 2 Gallon Rhus aromatica & cvs - Fragrant Sumac.....	26.29	
32 93 33 00-0596 EA 5 Gallon Rhus aromatica & cvs - Fragrant Sumac.....	36.15	
32 93 33 00-0597 EA 18" Balled and Burlapped, Rhus aromatica & cvs - Fragrant Sumac.....	41.62	
32 93 33 00-0598 EA 24" Balled and Burlapped, Rhus aromatica & cvs - Fragrant Sumac.....	54.77	
32 93 33 00-0599 EA 36" Balled and Burlapped, Rhus glabra - Smooth Sumac.....	32.86	
32 93 33 00-0600 EA 48" Balled and Burlapped, Rhus typhina & cvs - Staghorn Sumac.....	54.77	
32 93 33 00-0601 EA 72" Balled and Burlapped, Rhus typhina & cvs - Staghorn Sumac.....	87.63	
32 93 33 00-0602 EA 15" Balled and Burlapped, Ribes alpinum & cvs - Alpine Currant.....	29.58	
32 93 33 00-0603 EA 18" Balled and Burlapped, Ribes alpinum & cvs - Alpine Currant.....	33.96	
32 93 33 00-0604 EA 24" Balled and Burlapped, Ribes alpinum & cvs - Alpine Currant.....	49.29	
32 93 33 00-0605 EA 30" Balled and Burlapped, Ribes alpinum & cvs - Alpine Currant.....	65.72	
32 93 33 00-0606 EA 1 Gallon Rosa hybrids & cvs - Shrub Rose.....	18.07	
32 93 33 00-0607 EA 2 Gallon Rosa hybrids & cvs - Shrub Rose.....	21.91	
32 93 33 00-0608 EA 3 Gallon Rosa hybrids & cvs - Shrub Rose.....	27.38	
32 93 33 00-0609 EA 2 Gallon Rosa rugosa & cvs - Rugosa Rose.....	19.72	
32 93 33 00-0610 EA 3 Gallon Rosa rugosa & cvs - Rugosa Rose.....	25.19	
32 93 33 00-0611 EA 5 Gallon Sambucus canadensis - American Elder.....	36.15	
32 93 33 00-0612 EA 1 Gallon Santolina chamaecyparissus - Lavender Cotton.....	8.98	
32 93 33 00-0613 EA 5 Gallon Santolina chamaecyparissus - Lavender Cotton.....	22.21	
32 93 33 00-0614 EA 1 Gallon Santolina rosmarinifolia - Green Lavender Cotton.....	8.98	
32 93 33 00-0615 EA 5 Gallon Santolina rosmarinifolia - Green Lavender Cotton.....	22.21	
32 93 33 00-0616 EA 2 Gallon Sarcococca hookeriana humilis - Himalayan Sarcococca.....	16.24	
32 93 33 00-0617 EA 3 Gallon Sarcococca hookeriana humilis - Himalayan Sarcococca.....	23.77	
32 93 33 00-0618 EA 1 Gallon Sarcococca humilis - Fragrant Sarcococca.....	8.83	
32 93 33 00-0619 EA 5 Gallon Sarcococca humilis - Fragrant Sarcococca.....	23.07	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0620	EA		5 Gallon Senna artemisioides - Feathery Cassia.....	24.81	
32 93 33 00-0621	EA		15 Gallon Senna artemisioides - Feathery Cassia.....	98.71	
32 93 33 00-0622	EA		24" Box Senna artemisioides - Feathery Cassia.....	310.08	
32 93 33 00-0623	EA		1 Gallon Skimmia japonica - Japanese Skimmia.....	11.30	
32 93 33 00-0624	EA		2 Gallon Skimmia japonica - Japanese Skimmia.....	22.48	
32 93 33 00-0625	EA		5 Gallon Skimmia japonica - Japanese Skimmia.....	36.24	
32 93 33 00-0626	EA		1 Gallon Sollya fusiformis - Bluebell Creeper.....	8.98	
32 93 33 00-0627	EA		5 Gallon Sollya fusiformis - Bluebell Creeper.....	22.21	
32 93 33 00-0628	EA		3' To 4' Spiraea - Garland Spirea.....	52.37	
32 93 33 00-0629	EA		4' To 5' Spiraea - Garland Spirea.....	79.90	
32 93 33 00-0630	EA		5 Gallon Spiraea - Snowmound Spirea.....	31.30	
32 93 33 00-0631	EA		18" To 24" Spiraea - Snowmound Spirea.....	25.65	
32 93 33 00-0632	EA		2' To 3' Spiraea - Snowmound Spirea.....	36.24	
32 93 33 00-0633	EA		3' To 4' Spiraea - Snowmound Spirea.....	42.01	
32 93 33 00-0634	EA		4' To 5' Spiraea - Snowmound Spirea.....	72.37	
32 93 33 00-0635	EA		1 Gallon Spiraea japonica & cvs - Japanese Spirea.....	11.30	
32 93 33 00-0636	EA		2 Gallon Spiraea japonica & cvs - Japanese Spirea.....	22.24	
32 93 33 00-0637	EA		3 Gallon Spiraea japonica & cvs - Japanese Spirea.....	25.74	
32 93 33 00-0638	EA		5 Gallon Spiraea japonica & cvs - Japanese Spirea.....	27.93	
32 93 33 00-0639	EA		18" Balled and Burlapped, Spiraea japonica & cvs - Japanese Spirea.....	28.48	
32 93 33 00-0640	EA		24" Balled and Burlapped, Spiraea japonica & cvs - Japanese Spirea.....	32.86	
32 93 33 00-0641	EA		30" Balled and Burlapped, Spiraea japonica & cvs - Japanese Spirea.....	37.24	
32 93 33 00-0642	EA		36" Balled and Burlapped, Spiraea japonica & cvs - Japanese Spirea.....	43.27	
32 93 33 00-0643	EA		2 Gallon Spiraea nipponica & cvs - Nippon Spirea.....	17.53	
32 93 33 00-0644	EA		5 Gallon Spiraea nipponica & cvs - Nippon Spirea.....	26.29	
32 93 33 00-0645	EA		18" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spirea.....	24.10	
32 93 33 00-0646	EA		24" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spirea.....	28.48	
32 93 33 00-0647	EA		30" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spirea.....	32.86	
32 93 33 00-0648	EA		36" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spirea.....	37.24	
32 93 33 00-0649	EA		48" Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spirea.....	48.20	
32 93 33 00-0650	EA		1 Gallon Spiraea x bumalda & cvs - Bumalda Spirea.....	11.30	
32 93 33 00-0651	EA		2 Gallon Spiraea x bumalda & cvs - Bumalda Spirea.....	20.26	
32 93 33 00-0652	EA		4 Gallon Spiraea x bumalda & cvs - Bumalda Spirea.....	26.29	
32 93 33 00-0653	EA		18" Balled and Burlapped, Spiraea x bumalda & cvs - Bumalda Spirea.....	23.00	
32 93 33 00-0654	EA		24" Balled and Burlapped, Spiraea x bumalda & cvs - Bumalda Spirea.....	27.93	
32 93 33 00-0655	EA		30" Balled and Burlapped, Spiraea x bumalda & cvs - Bumalda Spirea.....	32.86	
32 93 33 00-0656	EA		36" Balled and Burlapped, Spiraea x bumalda & cvs - Bumalda Spirea.....	37.24	
32 93 33 00-0657	EA		5 Gallon Spiraea x vanhouttei & cvs - Vanhoutte Spirea.....	26.29	
32 93 33 00-0658	EA		18" Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spirea.....	26.29	
32 93 33 00-0659	EA		24" Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spirea.....	30.67	
32 93 33 00-0660	EA		30" Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spirea.....	41.62	
32 93 33 00-0661	EA		36" Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spirea.....	48.20	
32 93 33 00-0662	EA		42" Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spirea.....	56.96	
32 93 33 00-0663	EA		5 Gallon Staphylea trifolia - Bladdernut.....	36.98	
32 93 33 00-0664	EA		2 Gallon Stephanandra incisa & cvs - Cutleaf Stephanandra.....	26.29	
32 93 33 00-0665	EA		5 Gallon Stephanandra incisa & cvs - Cutleaf Stephanandra.....	28.48	
32 93 33 00-0666	EA		24" Balled and Burlapped, Stephanandra incisa & cvs - Cutleaf Stephanandra.....	32.86	
32 93 33 00-0667	EA		30" Balled and Burlapped, Stephanandra incisa & cvs - Cutleaf Stephanandra.....	39.43	
32 93 33 00-0668	EA		2 Gallon Symphoricarpos albus - Common Snowberry.....	27.38	
32 93 33 00-0669	EA		5 Gallon Symphoricarpos albus - Common Snowberry.....	29.03	
32 93 33 00-0670	EA		24" Balled and Burlapped, Syringa meyeri & cvs - Meyer Lilac.....	48.20	
32 93 33 00-0671	EA		30" Balled and Burlapped, Syringa meyeri & cvs - Meyer Lilac.....	60.25	
32 93 33 00-0672	EA		36" Balled and Burlapped, Syringa meyeri & cvs - Meyer Lilac.....	70.11	
32 93 33 00-0673	EA		42" Balled and Burlapped, Syringa meyeri & cvs - Meyer Lilac.....	81.06	
32 93 33 00-0674	EA		18" Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac.....	48.20	
32 93 33 00-0675	EA		24" Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac.....	52.58	
32 93 33 00-0676	EA		30" Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac.....	60.25	
32 93 33 00-0677	EA		36" Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac.....	70.11	
32 93 33 00-0678	EA		42" Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac.....	81.06	
32 93 33 00-0679	EA		60" Balled and Burlapped, Syringa villosa & cvs - Late Lilac.....	38.34	
32 93 33 00-0680	EA		72" Balled and Burlapped, Syringa villosa & cvs - Late Lilac.....	41.62	
32 93 33 00-0681	EA		36" Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac.....	32.86	
32 93 33 00-0682	EA		42" Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac.....	37.24	
32 93 33 00-0683	EA		48" Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac.....	41.62	
32 93 33 00-0684	EA		60" Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac.....	48.20	
32 93 33 00-0685	EA		72" Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac.....	59.15	
32 93 33 00-0686	EA		5 Gallon Syringa x chinensis & cvs - Chinese Lilac.....	27.38	
32 93 33 00-0687	EA		36" Balled and Burlapped, Syringa x hyacinthiflora & cvs - Hybrid Lilac.....	31.77	
32 93 33 00-0688	EA		48" Balled and Burlapped, Syringa x hyacinthiflora & cvs - Hybrid Lilac.....	41.62	
32 93 33 00-0689	EA		48" Balled and Burlapped, Taxus cuspidata capitata - Capitata Japanese Yew.....	174.17	
32 93 33 00-0690	EA		54" Balled and Burlapped, Taxus cuspidata capitata - Capitata Japanese Yew.....	194.98	
32 93 33 00-0691	EA		60" Balled and Burlapped, Taxus cuspidata capitata - Capitata Japanese Yew.....	214.70	
32 93 33 00-0692	EA		72" Balled and Burlapped, Taxus cuspidata capitata - Capitata Japanese Yew.....	258.51	
32 93 33 00-0693	EA		18" Balled and Burlapped, Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew.....	46.01	
32 93 33 00-0694	EA		24" Balled and Burlapped, Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew.....	60.25	
32 93 33 00-0695	EA		30" Balled and Burlapped, Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew.....	70.11	
32 93 33 00-0696	EA		36" Balled and Burlapped, Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew.....	76.68	
32 93 33 00-0697	EA		15" Balled and Burlapped, Taxus x media & cvs - Anglojap Yew.....	46.01	
32 93 33 00-0698	EA		18" Balled and Burlapped, Taxus x media & cvs - Anglojap Yew.....	60.25	
32 93 33 00-0699	EA		24" Balled and Burlapped, Taxus x media & cvs - Anglojap Yew.....	71.20	
32 93 33 00-0700	EA		30" Balled and Burlapped, Taxus x media & cvs - Anglojap Yew.....	84.35	

**Exterior Improvements 32**

Planting 32 90

Plants 32 93

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0701 EA 36" Balled and Burlapped, Taxus x media & cvs - Anglojap Yew	127.07	
32 93 33 00-0702 EA 36" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae	70.11	
32 93 33 00-0703 EA 48" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae	94.20	
32 93 33 00-0704 EA 60" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae	142.40	
32 93 33 00-0705 EA 72" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae	208.12	
32 93 33 00-0706 EA 84" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae	238.80	
32 93 33 00-0707 EA 96" Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae	277.13	
32 93 33 00-0708 EA 15" Balled and Burlapped, Thuja occidentalis cvs - Dwarf Arborvitae	30.67	
32 93 33 00-0709 EA 18" Balled and Burlapped, Thuja occidentalis cvs - Dwarf Arborvitae	42.72	
32 93 33 00-0710 EA 24" Balled and Burlapped, Thuja occidentalis cvs - Dwarf Arborvitae	60.25	
32 93 33 00-0711 EA 3' To 4' Viburnum dilatatum - Linden Viburnum	52.37	
32 93 33 00-0712 EA 4' To 5' Viburnum dilatatum - Linden Viburnum	79.90	
32 93 33 00-0713 EA 5' To 6' Viburnum dilatatum - Linden Viburnum	104.85	
32 93 33 00-0714 EA 1 Gallon Viburnum japonicum - Japanese Viburnum	6.35	
32 93 33 00-0715 EA 3 Gallon Viburnum japonicum - Japanese Viburnum	17.42	
32 93 33 00-0716 EA 5 Gallon Viburnum plicatum - Japanese Snowball	31.30	
32 93 33 00-0717 EA 5' To 6' Viburnum plicatum - Japanese Snowball	117.32	
32 93 33 00-0718 EA 2' To 3' Viburnum rhytidophyllum - Leatherleaf Viburnum	54.96	
32 93 33 00-0719 EA 3' To 4' Viburnum rhytidophyllum - Leatherleaf Viburnum	64.84	
32 93 33 00-0720 EA 4' To 5' Viburnum rhytidophyllum - Leatherleaf Viburnum	91.20	
32 93 33 00-0721 EA 30" Balled and Burlapped, Viburnum burkwoodii & cvs - Burkwood Viburnum	60.25	
32 93 33 00-0722 EA 36" Balled and Burlapped, Viburnum burkwoodii & cvs - Burkwood Viburnum	72.30	
32 93 33 00-0723 EA 24" Balled and Burlapped, Viburnum carlesii & cvs - Korean Spice Viburnum	54.77	
32 93 33 00-0724 EA 30" Balled and Burlapped, Viburnum carlesii & cvs - Korean Spice Viburnum	65.72	
32 93 33 00-0725 EA 36" Balled and Burlapped, Viburnum carlesii & cvs - Korean Spice Viburnum	76.68	
32 93 33 00-0726 EA 42" Balled and Burlapped, Viburnum carlesii & cvs - Korean Spice Viburnum	87.63	
32 93 33 00-0727 EA 1 Gallon Viburnum davidii - David Viburnum	8.98	
32 93 33 00-0728 EA 5 Gallon Viburnum davidii - David Viburnum	22.21	
32 93 33 00-0729 EA 36" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum	30.67	
32 93 33 00-0730 EA 42" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum	32.86	
32 93 33 00-0731 EA 48" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum	38.34	
32 93 33 00-0732 EA 60" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum	43.82	
32 93 33 00-0733 EA 72" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum	48.20	
32 93 33 00-0734 EA 30" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum	29.58	
32 93 33 00-0735 EA 36" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum	32.86	
32 93 33 00-0736 EA 42" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum	41.62	
32 93 33 00-0737 EA 48" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum	48.20	
32 93 33 00-0738 EA 60" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum	65.72	
32 93 33 00-0739 EA 72" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum	78.87	
32 93 33 00-0740 EA 36" Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum	32.86	
32 93 33 00-0741 EA 48" Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum	43.82	
32 93 33 00-0742 EA 5' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum	54.77	
32 93 33 00-0743 EA 6' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum	76.68	
32 93 33 00-0744 EA 7' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum	109.54	
32 93 33 00-0745 EA 8' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum	153.35	
32 93 33 00-0746 EA 9' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum	197.17	
32 93 33 00-0747 EA 30" Balled and Burlapped, Viburnum plicatum tomentosum & cvs - Doublefile Viburnum	39.43	
32 93 33 00-0748 EA 36" Balled and Burlapped, Viburnum plicatum tomentosum & cvs - Doublefile Viburnum	43.82	
32 93 33 00-0749 EA 36" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum	78.87	
32 93 33 00-0750 EA 48" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum	120.49	
32 93 33 00-0751 EA 60" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum	153.35	
32 93 33 00-0752 EA 72" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum	186.22	
32 93 33 00-0753 EA 84" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum	230.03	
32 93 33 00-0754 EA 96" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum	273.85	
32 93 33 00-0755 EA 108" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum	328.62	
32 93 33 00-0756 EA 120" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum	383.39	
32 93 33 00-0757 EA 30" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum	33.41	
32 93 33 00-0758 EA 36" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum	36.70	
32 93 33 00-0759 EA 48" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum	41.62	
32 93 33 00-0760 EA 60" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum	48.20	
32 93 33 00-0761 EA 72" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum	55.32	
32 93 33 00-0762 EA 18" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum	31.77	
32 93 33 00-0763 EA 24" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum	38.34	
32 93 33 00-0764 EA 30" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum	46.01	
32 93 33 00-0765 EA 36" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum	52.58	
32 93 33 00-0766 EA 42" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum	63.53	
32 93 33 00-0767 EA 48" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum	70.11	
32 93 33 00-0768 EA 30" Balled and Burlapped, Viburnum x carcephalum & cvs - Fragrant Viburnum	54.77	
32 93 33 00-0769 EA 36" Balled and Burlapped, Viburnum x carcephalum & cvs - Fragrant Viburnum	65.72	
32 93 33 00-0770 EA 42" Balled and Burlapped, Viburnum x carcephalum & cvs - Fragrant Viburnum	76.68	
32 93 33 00-0771 EA 48" Balled and Burlapped, Viburnum x carcephalum & cvs - Fragrant Viburnum	87.63	
32 93 33 00-0772 EA 60" Balled and Burlapped, Viburnum x carcephalum & cvs - Fragrant Viburnum	98.59	
32 93 33 00-0773 EA 30" Balled and Burlapped, Viburnum x juddii & cvs - Judd Viburnum	70.11	
32 93 33 00-0774 EA 36" Balled and Burlapped, Viburnum x juddii & cvs - Judd Viburnum	78.87	
32 93 33 00-0775 EA 42" Balled and Burlapped, Viburnum x juddii & cvs - Judd Viburnum	89.82	
32 93 33 00-0776 EA 48" Balled and Burlapped, Viburnum x juddii & cvs - Judd Viburnum	102.97	
32 93 33 00-0777 EA 2' To 3' Viburnum opulus "Roseum" - Fragrant Snowball	64.84	
32 93 33 00-0778 EA 3' To 4' Viburnum opulus "Roseum" - Fragrant Snowball	79.90	
32 93 33 00-0779 EA 4' To 5' Viburnum opulus "Roseum" - Fragrant Snowball	117.32	
32 93 33 00-0780 EA 5 Gallon Weigela florida & cvs - Old Fashioned Weigela	36.15	
32 93 33 00-0781 EA 24" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela	32.86	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0782 EA 30" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela.....	37.24	
32 93 33 00-0783 EA 36" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela.....	41.62	
32 93 33 00-0784 EA 42" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela.....	48.20	
32 93 33 00-0785 EA 48" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela.....	54.77	
32 93 33 00-0786 EA 1 Gallon Xylosma congestum - Shiny Xylosma.....	7.53	
32 93 33 00-0787 EA 5 Gallon Xylosma congestum - Shiny Xylosma.....	21.30	
32 93 33 00-0788 EA 15 Gallon Xylosma congestum - Shiny Xylosma.....	93.67	
32 93 33 00-0789 EA 1 Gallon Yucca aloifolia - Spanish Bayonet.....	6.35	
32 93 33 00-0790 EA 3 Gallon Yucca aloifolia - Spanish Bayonet.....	16.83	
32 93 33 00-0791 EA 1 Gallon Yucca filamentosa - Adams Needle.....	8.83	
32 93 33 00-0792 EA 3 Gallon Yucca filamentosa - Adams Needle.....	17.18	
32 93 33 00-0793 EA 5 Gallon Yucca filamentosa - Adams Needle.....	27.18	
32 93 33 00-0794 EA 5 Gallon Border Forsythia - Goldenbells.....	30.24	
32 93 33 00-0795 EA 2' To 3' Border Forsythia - Goldenbells.....	24.95	
32 93 33 00-0796 EA 3' To 4' Border Forsythia - Goldenbells.....	31.54	
32 93 33 00-0797 EA 4' To 5' Border Forsythia - Goldenbells.....	39.30	
32 93 33 00-0798 EA 5' To 6' Border Forsythia - Goldenbells.....	47.19	
32 93 33 00-0799 EA 6' To 8' Border Forsythia - Goldenbells.....	64.84	
32 93 33 00-0800 EA 3' Juniperus chinensis - Columnar Chinese Juniper.....	64.24	
32 93 33 00-0801 EA 4' Juniperus chinensis - Columnar Chinese Juniper.....	88.18	
32 93 33 00-0802 EA 5' Juniperus chinensis - Columnar Chinese Juniper.....	138.57	
32 93 33 00-0803 EA 6' Juniperus chinensis - Columnar Chinese Juniper.....	161.24	
32 93 33 00-0804 EA 7' Juniperus chinensis - Columnar Chinese Juniper.....	211.63	
32 93 33 00-0805 EA 2 Gallon Chrysobalanus icaco - Cocoplum Red Tip.....	12.60	
32 93 33 00-0806 EA 3 Gallon Chrysobalanus icaco - Cocoplum Red Tip.....	17.64	
32 93 33 00-0807 EA 5 Gallon Chrysobalanus icaco - Cocoplum Red Tip.....	42.70	
32 93 33 00-0808 EA 2 Gallon Chrysobalanus icaco - Cocoplum Green Tip.....	12.60	
32 93 33 00-0809 EA 3 Gallon Chrysobalanus icaco - Cocoplum Green Tip.....	17.64	

32 93 43 Trees (32 93)

Note: (cvs = cultivar) materials only. See CSI section 32 93 83 00-0001 for installation and planting of trees.

32 93 43 00-0001 Deciduous Ornamental Trees (32 93 43)

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0002 EA 6' Clump Form Acer ginnala & cvs - Amur Maple.....	328.95	
32 93 43 00-0003 EA 7' Clump Form Acer ginnala & cvs - Amur Maple.....	402.05	
32 93 43 00-0004 EA 8' Clump Form Acer ginnala & cvs - Amur Maple.....	456.88	
32 93 43 00-0005 EA 10' Clump Form Acer ginnala & cvs - Amur Maple.....	529.98	
32 93 43 00-0006 EA 12' Clump Form Acer ginnala & cvs - Amur Maple.....	603.08	
32 93 43 00-0007 EA 14' Clump Form Acer ginnala & cvs - Amur Maple.....	712.73	
32 93 43 00-0008 EA 1-1/2" To 2" Caliper Acer griseum - Paperbark Maple.....	228.37	
32 93 43 00-0009 EA 2" To 2-1/2" Caliper Acer griseum - Paperbark Maple.....	1,169.61	
32 93 43 00-0010 EA 2-1/2" To 3" Caliper Acer griseum - Paperbark Maple.....	1,462.02	
32 93 43 00-0011 EA 5' Clump Form Acer griseum - Paperbark Maple.....	292.40	
32 93 43 00-0012 EA 1-1/2" Caliper Aesculus californica - California Buckeye.....	731.01	
32 93 43 00-0013 EA 2" Caliper Aesculus californica - California Buckeye.....	950.31	
32 93 43 00-0014 EA 2-1/2" Caliper Aesculus californica - California Buckeye.....	1,096.51	
32 93 43 00-0015 EA 3" Caliper Aesculus californica - California Buckeye.....	1,242.71	
32 93 43 00-0016 EA 3-1/2" Caliper Aesculus californica - California Buckeye.....	1,462.02	
32 93 43 00-0017 EA 36" Balled and Burlapped, Amelanchier alnifolia & cvs - Saskatoon Serviceberry.....	87.63	
32 93 43 00-0018 EA 48" Balled and Burlapped, Amelanchier alnifolia & cvs - Saskatoon Serviceberry.....	109.54	
32 93 43 00-0019 EA 60" Balled and Burlapped, Amelanchier alnifolia & cvs - Saskatoon Serviceberry.....	135.83	
32 93 43 00-0020 EA 60" Balled and Burlapped, Amelanchier arborea & cvs - Downy Serviceberry.....	109.54	
32 93 43 00-0021 EA 72" Balled and Burlapped, Amelanchier arborea & cvs - Downy Serviceberry.....	131.45	
32 93 43 00-0022 EA 7' Balled and Burlapped, Amelanchier arborea & cvs - Downy Serviceberry.....	153.35	
32 93 43 00-0023 EA 8' Balled and Burlapped, Amelanchier arborea & cvs - Downy Serviceberry.....	175.26	
32 93 43 00-0024 EA 5' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry.....	197.17	
32 93 43 00-0025 EA 6' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry.....	219.08	
32 93 43 00-0026 EA 7' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry.....	251.94	
32 93 43 00-0027 EA 8' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry.....	284.80	
32 93 43 00-0028 EA 9' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry.....	328.62	
32 93 43 00-0029 EA 7' Balled and Burlapped, Amelanchier laevis & cvs - Allegheny Serviceberry.....	251.94	
32 93 43 00-0030 EA 8' Balled and Burlapped, Amelanchier laevis & cvs - Allegheny Serviceberry.....	295.76	
32 93 43 00-0031 EA 9' Balled and Burlapped, Amelanchier laevis & cvs - Allegheny Serviceberry.....	339.57	
32 93 43 00-0032 EA 10' Balled and Burlapped, Amelanchier laevis & cvs - Allegheny Serviceberry.....	372.43	
32 93 43 00-0033 EA 30" Balled and Burlapped, Amelanchier stolonifera & cvs - Running Serviceberry.....	87.63	
32 93 43 00-0034 EA 48" Balled and Burlapped, Amelanchier stolonifera & cvs - Running Serviceberry.....	186.22	
32 93 43 00-0035 EA 60" Balled and Burlapped, Amelanchier stolonifera & cvs - Running Serviceberry.....	240.99	
32 93 43 00-0036 EA 2' To 4' Amelanchier - Juneberry.....	26.67	
32 93 43 00-0037 EA 4' To 5' Amelanchier - Juneberry.....	27.98	
32 93 43 00-0038 EA 5' To 6' Amelanchier - Juneberry.....	33.32	
32 93 43 00-0039 EA 6' To 8' Amelanchier - Juneberry.....	39.75	
32 93 43 00-0040 EA 6' Cercis occidentalis - Western Redbud.....	204.70	
32 93 43 00-0041 EA 8' Cercis occidentalis - Western Redbud.....	281.62	
32 93 43 00-0042 EA 2-1/2" Caliper Cercis occidentalis - Western Redbud.....	580.06	
32 93 43 00-0043 EA 3" Caliper Cercis occidentalis - Western Redbud.....	706.15	
32 93 43 00-0044 EA 2' To 3' Magnolia Virginiana - Sweetbay Magnolia.....	69.27	
32 93 43 00-0045 EA 3' To 4' Magnolia Virginiana - Sweetbay Magnolia.....	103.90	
32 93 43 00-0046 EA 4' To 5' Magnolia Virginiana - Sweetbay Magnolia.....	129.88	
32 93 43 00-0047 EA 5' To 6' Magnolia Virginiana - Sweetbay Magnolia.....	161.76	



Exterior Improvements			32
Planting			32 90
Plants			32 93

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0048	EA		4' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia.....	274.13	
32 93 43 00-0049	EA		5' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia.....	365.50	
32 93 43 00-0050	EA		6' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia.....	475.16	
32 93 43 00-0051	EA		7' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia.....	529.98	
32 93 43 00-0052	EA		8' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia.....	639.63	
32 93 43 00-0053	EA		9' Clump Form Magnolia soulangiana & cvs - Saucer Magnolia.....	712.73	
32 93 43 00-0054	EA		4' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia.....	274.13	
32 93 43 00-0055	EA		5' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia.....	365.50	
32 93 43 00-0056	EA		6' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia.....	475.16	
32 93 43 00-0057	EA		7' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia.....	529.98	
32 93 43 00-0058	EA		8' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia.....	639.63	
32 93 43 00-0059	EA		9' Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia.....	712.73	
32 93 43 00-0060	EA		1 Gallon Platanus racemosa, Multi Trunk - Western Sycamore.....	5.46	
32 93 43 00-0061	EA		5 Gallon Platanus racemosa, Multi Trunk - Western Sycamore.....	23.10	
32 93 43 00-0062	EA		20 Gallon Prunus subhirtella - Flowering Cherry.....	255.87	
32 93 43 00-0063	EA		1-1/2" To 2" Caliper Prunus subhirtella - Flowering Cherry.....	264.50	
32 93 43 00-0064	EA		2" To 2-1/2" Caliper Prunus subhirtella - Flowering Cherry.....	330.58	
32 93 43 00-0065	EA		3-1/2" To 4" Caliper Prunus subhirtella - Flowering Cherry.....	689.90	
32 93 43 00-0066	EA		3" To 3-1/2" Caliper Prunus subhirtella - Flowering Cherry.....	531.72	
32 93 43 00-0067	EA		4" To 5" Caliper Prunus subhirtella - Flowering Cherry.....	1,034.85	
32 93 43 00-0068	EA		5 Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	66.09	
32 93 43 00-0069	EA		15 Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	181.03	
32 93 43 00-0070	EA		20 Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	235.76	
32 93 43 00-0071	EA		5' To 6' Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	74.71	
32 93 43 00-0072	EA		6' To 8' Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	143.67	
32 93 43 00-0073	EA		1-1/2" To 2" Caliper Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	264.50	
32 93 43 00-0074	EA		2" To 2-1/2" Caliper Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum.....	316.21	
32 93 43 00-0075	EA		1-1/2" To 1-3/4" Caliper Prunus subhirtella - Weeping Cherry.....	207.03	
32 93 43 00-0076	EA		1-1/4" To 1-1/2" Caliper Prunus subhirtella - Weeping Cherry.....	172.41	
32 93 43 00-0077	EA		1-3/4" To 2" Caliper Prunus subhirtella - Weeping Cherry.....	252.86	
32 93 43 00-0078	EA		2" To 2-1/2" Caliper Prunus subhirtella - Weeping Cherry.....	301.85	
32 93 43 00-0079	EA		2-1/2" To 3" Caliper Prunus subhirtella - Weeping Cherry.....	388.05	
32 93 43 00-0080	EA		15 Gallon Pyrus Calleryana x 'Aristocrat' - Flowering Pear.....	199.77	
32 93 43 00-0081	EA		20 Gallon Pyrus Calleryana x 'Aristocrat' - Flowering Pear.....	249.72	
32 93 43 00-0082	EA		1-1/2" To 2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear.....	259.70	
32 93 43 00-0083	EA		2" To 2-1/2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear.....	309.65	
32 93 43 00-0084	EA		2-1/2" To 3" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear.....	419.52	
32 93 43 00-0085	EA		3" To 3-1/2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear.....	549.38	
32 93 43 00-0086	EA		3-1/2" To 4" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear.....	699.20	
32 93 43 00-0087	EA		15 Gallon Pyrus Calleryana x 'Bradford' - Flowering Pear.....	199.77	
32 93 43 00-0088	EA		20 Gallon Pyrus Calleryana x 'Bradford' - Flowering Pear.....	249.72	
32 93 43 00-0089	EA		1-1/2" To 2" Caliper Pyrus Calleryana x 'Bradford' - Flowering Pear.....	169.81	
32 93 43 00-0090	EA		2" To 2-1/2" Caliper Pyrus Calleryana x 'Bradford' - Flowering Pear.....	259.70	
32 93 43 00-0091	EA		2-1/2" To 3" Caliper Pyrus Calleryana x 'Bradford' - Flowering Pear.....	309.38	
32 93 43 00-0092	EA		3" To 3-1/2" Caliper Pyrus Calleryana x 'Bradford' - Flowering Pear.....	419.52	
32 93 43 00-0093	EA		3-1/2" To 4" Caliper Pyrus Calleryana x 'Bradford' - Flowering Pear.....	549.38	
32 93 43 00-0094	EA		1-1/2" Caliper Pyrus calleryana & cvs - Callery Pear.....	363.90	
32 93 43 00-0095	EA		2" Caliper Pyrus calleryana & cvs - Callery Pear.....	454.87	
32 93 43 00-0096	EA		2-1/2" Caliper Pyrus calleryana & cvs - Callery Pear.....	564.04	
32 93 43 00-0097	EA		3" Caliper Pyrus calleryana & cvs - Callery Pear.....	636.82	
32 93 43 00-0098	EA		3-1/2" Caliper Pyrus calleryana & cvs - Callery Pear.....	709.60	
32 93 43 00-0099	EA		4" Caliper Pyrus calleryana & cvs - Callery Pear.....	909.74	
32 93 43 00-0100	EA		1 Gallon Ribes aureum - Golden Currant.....	4.77	
32 93 43 00-0101	EA		5 Gallon Ribes aureum - Golden Currant.....	13.65	
32 93 43 00-0102	EA		1 Gallon Ribes sanguineum - Red Flowering Currant.....	4.77	
32 93 43 00-0103	EA		5 Gallon Ribes sanguineum - Red Flowering Currant.....	13.65	
32 93 43 00-0104	EA		1 Gallon Ribes viburnifolium - Evergreen Currant.....	4.77	
32 93 43 00-0105	EA		5 Gallon Ribes viburnifolium - Evergreen Currant.....	13.65	
32 93 43 00-0106	EA		6' Brachychiton acerifolius - Flame Tree.....	694.94	
32 93 43 00-0107	EA		8' Brachychiton acerifolius - Flame Tree.....	926.59	
32 93 43 00-0108	EA		5 Gallon Celtis Sinensis - Chinese Hackberry.....	42.49	
32 93 43 00-0109	EA		15 Gallon Celtis Sinensis - Chinese Hackberry.....	112.02	
32 93 43 00-0110	EA		24" Box Celtis Sinensis - Chinese Hackberry.....	366.95	
32 93 43 00-0111	EA		36" Box Celtis Sinensis - Chinese Hackberry.....	1,071.87	
32 93 43 00-0112	EA		5 Gallon Crataegus phaenopyrum - Washington Hawthorn.....	42.49	
32 93 43 00-0113	EA		15 Gallon Crataegus phaenopyrum - Washington Hawthorn.....	112.02	
32 93 43 00-0114	EA		24" Box Crataegus phaenopyrum - Washington Hawthorn.....	366.95	
32 93 43 00-0115	EA		36" Box Crataegus phaenopyrum - Washington Hawthorn.....	1,071.87	
32 93 43 00-0116	EA		1 Gallon Eucalyptus ficifolia - Red-Flowering Gum.....	12.55	
32 93 43 00-0117	EA		5 Gallon Eucalyptus ficifolia - Red-Flowering Gum.....	34.76	
32 93 43 00-0118	EA		15 Gallon Eucalyptus ficifolia - Red-Flowering Gum.....	152.57	
32 93 43 00-0119	EA		24" Box Eucalyptus ficifolia - Red-Flowering Gum.....	366.95	
32 93 43 00-0120	EA		36" Box Eucalyptus ficifolia - Red-Flowering Gum.....	965.65	
32 93 43 00-0121	EA		15 Gallon Fraxinus velutina 'Raywood' - Fan-Tex Ash.....	94.63	
32 93 43 00-0122	EA		24" Box Fraxinus velutina 'Raywood' - Fan-Tex Ash.....	309.01	
32 93 43 00-0123	EA		36" Box Fraxinus velutina 'Raywood' - Fan-Tex Ash.....	820.80	
32 93 43 00-0124	EA		48" Box Fraxinus velutina 'Raywood' - Fan-Tex Ash.....	1,834.74	
32 93 43 00-0125	EA		5 Gallon Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	27.04	
32 93 43 00-0126	EA		15 Gallon Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	94.63	
32 93 43 00-0127	EA		24" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	309.01	
32 93 43 00-0128	EA		36" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust.....	820.80	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0129	EA		48" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust	1,834.74	
32 93 43 00-0130	EA		5 Gallon Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum	27.04	
32 93 43 00-0131	EA		15 Gallon Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum	113.95	
32 93 43 00-0132	EA		24" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum	309.01	
32 93 43 00-0133	EA		36" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum	869.08	
32 93 43 00-0134	EA		48" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum	2,221.00	
32 93 43 00-0135	EA		5 Gallon Liquidambar styraciflua 'Festival' - Festival Sweetgum	27.04	
32 93 43 00-0136	EA		15 Gallon Liquidambar styraciflua 'Festival' - Festival Sweetgum	113.95	
32 93 43 00-0137	EA		24" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum	309.01	
32 93 43 00-0138	EA		36" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum	869.08	
32 93 43 00-0139	EA		48" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum	2,221.00	
32 93 43 00-0140	EA		5 Gallon Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum	27.04	
32 93 43 00-0141	EA		15 Gallon Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum	113.95	
32 93 43 00-0142	EA		24" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum	309.01	
32 93 43 00-0143	EA		36" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum	869.08	
32 93 43 00-0144	EA		48" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum	2,221.00	
32 93 43 00-0145	EA		1 Gallon Pittosporum undulatum - Victorian Box	11.30	
32 93 43 00-0146	EA		5 Gallon Pittosporum undulatum - Victorian Box	24.33	
32 93 43 00-0147	EA		15 Gallon Pittosporum undulatum - Victorian Box	137.32	
32 93 43 00-0148	EA		24" Box Pittosporum undulatum - Victorian Box	330.26	
32 93 43 00-0149	EA		36" Box Pittosporum undulatum - Victorian Box	956.01	
32 93 43 00-0150	EA		48" Box Pittosporum undulatum - Victorian Box	2,172.75	
32 93 43 00-0151	EA		15 Gallon Prunus cerasifera 'Thundercloud' - Thundercloud Purple Leaf Plum	96.47	
32 93 43 00-0152	EA		24" Box Prunus cerasifera 'Thundercloud' - Thundercloud Purple Leaf Plum	347.54	
32 93 43 00-0153 Deciduous Shade Trees (32 93 43)					
Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.					
32 93 43 00-0154	EA		3-1/2" To 4" Caliper Acer palmatum - Bloodgood Japanese Maple	195.39	
32 93 43 00-0155	EA		4" To 4-1/2" Caliper Acer palmatum - Bloodgood Japanese Maple	239.51	
32 93 43 00-0156	EA		4-1/2" To 5" Caliper Acer palmatum - Bloodgood Japanese Maple	312.00	
32 93 43 00-0157	EA		5" To 6" Caliper Acer palmatum - Bloodgood Japanese Maple	404.44	
32 93 43 00-0158	EA		2' To 2-1/2' Acer palmatum - Japanese Maple	20.61	
32 93 43 00-0159	EA		4' To 5' Acer palmatum - Japanese Maple	43.28	
32 93 43 00-0160	EA		5' To 6' Acer palmatum - Japanese Maple	56.67	
32 93 43 00-0161	EA		6' To 7' Acer palmatum - Japanese Maple	103.04	
32 93 43 00-0162	EA		7' To 8' Acer palmatum - Japanese Maple	144.26	
32 93 43 00-0163	EA		8' To 10' Acer palmatum - Japanese Maple	185.48	
32 93 43 00-0164	EA		10' To 12' Acer palmatum - Japanese Maple	247.31	
32 93 43 00-0165	EA		2" Caliper Acer platanoides & cvs - Norway Maple	105.05	
32 93 43 00-0166	EA		2" Caliper Acer platanoides & cvs - Norway Maple	127.89	
32 93 43 00-0167	EA		3" Caliper Acer platanoides & cvs - Norway Maple	164.43	
32 93 43 00-0168	EA		3-1/2" Caliper Acer platanoides & cvs - Norway Maple	191.83	
32 93 43 00-0169	EA		4" Caliper Acer platanoides & cvs - Norway Maple	205.53	
32 93 43 00-0170	EA		4-1/2" Caliper Acer platanoides & cvs - Norway Maple	223.80	
32 93 43 00-0171	EA		5" Caliper Acer platanoides & cvs - Norway Maple	251.21	
32 93 43 00-0172	EA		2" Caliper Acer rubrum & cvs - Red Maple	100.48	
32 93 43 00-0173	EA		2-1/2" Caliper Acer rubrum & cvs - Red Maple	127.89	
32 93 43 00-0174	EA		3" Caliper Acer rubrum & cvs - Red Maple	164.43	
32 93 43 00-0175	EA		3-1/2" Caliper Acer rubrum & cvs - Red Maple	200.97	
32 93 43 00-0176	EA		4" Caliper Acer rubrum & cvs - Red Maple	228.37	
32 93 43 00-0177	EA		4-1/2" Caliper Acer rubrum & cvs - Red Maple	264.91	
32 93 43 00-0178	EA		5" Caliper Acer rubrum & cvs - Red Maple	296.88	
32 93 43 00-0179	EA		8' Clump Form Acer rubrum & cvs - Red Maple	123.32	
32 93 43 00-0180	EA		10' Clump Form Acer rubrum & cvs - Red Maple	164.43	
32 93 43 00-0181	EA		12' Clump Form Acer rubrum & cvs - Red Maple	191.83	
32 93 43 00-0182	EA		14' Clump Form Acer rubrum & cvs - Red Maple	219.23	
32 93 43 00-0183	EA		16' Clump Form Acer rubrum & cvs - Red Maple	246.64	
32 93 43 00-0184	EA		18' Clump Form Acer rubrum & cvs - Red Maple	274.04	
32 93 43 00-0185	EA		2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut	159.86	
32 93 43 00-0186	EA		2-1/2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut	178.13	
32 93 43 00-0187	EA		3" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut	200.97	
32 93 43 00-0188	EA		3-1/2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut	228.37	
32 93 43 00-0189	EA		4" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut	274.04	
32 93 43 00-0190	EA		2" Caliper Betula nigra - River Birch	114.18	
32 93 43 00-0191	EA		2-1/2" Caliper Betula nigra - River Birch	129.30	
32 93 43 00-0192	EA		3" Caliper Betula nigra - River Birch	146.16	
32 93 43 00-0193	EA		3-1/2" Caliper Betula nigra - River Birch	182.70	
32 93 43 00-0194	EA		4" Caliper Betula nigra - River Birch	205.53	
32 93 43 00-0195	EA		4-1/2" Caliper Betula nigra - River Birch	228.37	
32 93 43 00-0196	EA		5" Caliper Betula nigra - River Birch	251.21	
32 93 43 00-0197	EA		8' Clump Form Betula nigra - River Birch	105.05	
32 93 43 00-0198	EA		10' Clump Form Betula nigra - River Birch	118.75	
32 93 43 00-0199	EA		12' Clump Form Betula nigra - River Birch	137.02	
32 93 43 00-0200	EA		14' Clump Form Betula nigra - River Birch	159.86	
32 93 43 00-0201	EA		16' Clump Form Betula nigra - River Birch	182.70	
32 93 43 00-0202	EA		12' Clump Form Betula platyphylla japonica & cvs - Asian White Birch	137.02	
32 93 43 00-0203	EA		14' Clump Form Betula platyphylla japonica & cvs - Asian White Birch	164.43	
32 93 43 00-0204	EA		16' Clump Form Betula platyphylla japonica & cvs - Asian White Birch	191.83	
32 93 43 00-0205	EA		18' Clump Form Betula platyphylla japonica & cvs - Asian White Birch	228.37	



Exterior Improvements		32
Planting	32 90	32
Plants	32 93	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0206	EA		20' Clump Form Betula platyphylla japonica & cvs - Asian White Birch	237.50	
32 93 43 00-0207	EA		2" Caliper Carpinus betulus & cvs - European Hornbeam	182.70	
32 93 43 00-0208	EA		2-1/2" Caliper Carpinus betulus & cvs - European Hornbeam	205.53	
32 93 43 00-0209	EA		3" Caliper Carpinus betulus & cvs - European Hornbeam	237.50	
32 93 43 00-0210	EA		3-1/2" Caliper Carpinus betulus & cvs - European Hornbeam	287.75	
32 93 43 00-0211	EA		6' Clump Form Carpinus betulus & cvs - European Hornbeam	82.21	
32 93 43 00-0212	EA		7' Clump Form Carpinus betulus & cvs - European Hornbeam	114.18	
32 93 43 00-0213	EA		8' Clump Form Carpinus betulus & cvs - European Hornbeam	141.59	
32 93 43 00-0214	EA		2" Caliper Catalpa speciosa - Western Catalpa	100.48	
32 93 43 00-0215	EA		2-1/2" Caliper Catalpa speciosa - Western Catalpa	137.02	
32 93 43 00-0216	EA		3" Caliper Catalpa speciosa - Western Catalpa	178.13	
32 93 43 00-0217	EA		3-1/2" Caliper Catalpa speciosa - Western Catalpa	214.67	
32 93 43 00-0218	EA		4" Caliper Catalpa speciosa - Western Catalpa	246.64	
32 93 43 00-0219	EA		8' Clump Form Corylus cornuta californica - Western Filbert	127.89	
32 93 43 00-0220	EA		10' Clump Form Corylus cornuta californica - Western Filbert	155.29	
32 93 43 00-0221	EA		12' Clump Form Corylus cornuta californica - Western Filbert	182.70	
32 93 43 00-0222	EA		1-1/2" Caliper Diospyros - Persimmon	82.21	
32 93 43 00-0223	EA		2" Caliper Diospyros - Persimmon	100.48	
32 93 43 00-0224	EA		2-1/2" Caliper Diospyros - Persimmon	127.89	
32 93 43 00-0225	EA		3" Caliper Diospyros - Persimmon	159.86	
32 93 43 00-0226	EA		3-1/2" Caliper Diospyros - Persimmon	191.83	
32 93 43 00-0227	EA		2" Caliper Fagus sylvatica & cvs - European Beech	205.53	
32 93 43 00-0228	EA		2-1/2" Caliper Fagus sylvatica & cvs - European Beech	246.64	
32 93 43 00-0229	EA		3" Caliper Fagus sylvatica & cvs - European Beech	296.88	
32 93 43 00-0230	EA		3-1/2" Caliper Fagus sylvatica & cvs - European Beech	328.85	
32 93 43 00-0231	EA		4" Caliper Fagus sylvatica & cvs - European Beech	388.23	
32 93 43 00-0232	EA		4-1/2" Caliper Fagus sylvatica & cvs - European Beech	502.41	
32 93 43 00-0233	EA		5" Caliper Fagus sylvatica & cvs - European Beech	593.76	
32 93 43 00-0234	EA		2" Caliper Fraxinus americana & cvs - White Ash	114.18	
32 93 43 00-0235	EA		2-1/2" Caliper Fraxinus americana & cvs - White Ash	137.02	
32 93 43 00-0236	EA		3" Caliper Fraxinus americana & cvs - White Ash	173.56	
32 93 43 00-0237	EA		3-1/2" Caliper Fraxinus americana & cvs - White Ash	210.10	
32 93 43 00-0238	EA		4" Caliper Fraxinus americana & cvs - White Ash	246.64	
32 93 43 00-0239	EA		4-1/2" Caliper Fraxinus americana & cvs - White Ash	274.04	
32 93 43 00-0240	EA		5" Caliper Fraxinus americana & cvs - White Ash	319.72	
32 93 43 00-0241	EA		1-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	159.86	
32 93 43 00-0242	EA		2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	178.13	
32 93 43 00-0243	EA		2-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	200.97	
32 93 43 00-0244	EA		3" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	223.80	
32 93 43 00-0245	EA		3-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	251.21	
32 93 43 00-0246	EA		4" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	274.04	
32 93 43 00-0247	EA		4-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	411.07	
32 93 43 00-0248	EA		5" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree)	456.74	
32 93 43 00-0249	EA		2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	109.62	
32 93 43 00-0250	EA		2-1/2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	137.02	
32 93 43 00-0251	EA		3" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	164.43	
32 93 43 00-0252	EA		3-1/2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	191.83	
32 93 43 00-0253	EA		4" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	219.23	
32 93 43 00-0254	EA		4-1/2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	246.64	
32 93 43 00-0255	EA		5" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust	292.31	
32 93 43 00-0256	EA		10' - 12' Bursera Simaruba - Gumbo Limbo	57.78	
32 93 43 00-0257	EA		12' - 14' Bursera Simaruba - Gumbo Limbo	68.28	
32 93 43 00-0258	EA		14' - 16' Bursera Simaruba - Gumbo Limbo	94.54	
32 93 43 00-0259	EA		17' - 18' Bursera Simaruba - Gumbo Limbo	122.91	
32 93 43 00-0260	EA		19' - 20' Bursera Simaruba - Gumbo Limbo	136.56	
32 93 43 00-0261	EA		21' - 22' Bursera Simaruba - Gumbo Limbo	161.78	
32 93 43 00-0262	EA		1-1/2" Caliper Juglans californica - California Walnut	109.62	
32 93 43 00-0263	EA		2" Caliper Juglans californica - California Walnut	127.89	
32 93 43 00-0264	EA		2-1/2" Caliper Juglans californica - California Walnut	159.86	
32 93 43 00-0265	EA		3" Caliper Juglans californica - California Walnut	200.97	
32 93 43 00-0266	EA		3-1/2" Caliper Juglans californica - California Walnut	246.64	
32 93 43 00-0267	EA		4" Caliper Juglans californica - California Walnut	296.88	
32 93 43 00-0268	EA		4-1/2" Caliper Juglans californica - California Walnut	342.55	
32 93 43 00-0269	EA		5" Caliper Juglans californica - California Walnut	388.23	
32 93 43 00-0270	EA		5 Gallon Koelreuteria Paniculata - Goldenrain Tree	12.37	
32 93 43 00-0271	EA		15 Gallon Koelreuteria Paniculata - Goldenrain Tree	30.91	
32 93 43 00-0272	EA		20 Gallon Koelreuteria Paniculata - Goldenrain Tree	61.83	
32 93 43 00-0273	EA		55 Gallon Koelreuteria Paniculata - Goldenrain Tree	80.37	
32 93 43 00-0274	EA		1-1/2" To 2" Caliper Koelreuteria Paniculata - Goldenrain Tree	58.74	
32 93 43 00-0275	EA		2" To 2-1/2" Caliper Koelreuteria Paniculata - Goldenrain Tree	71.10	
32 93 43 00-0276	EA		2-1/2" To 3" Caliper Koelreuteria Paniculata - Goldenrain Tree	98.92	
32 93 43 00-0277	EA		1-1/2" Caliper Liquidambar styraciflua - American Sweetgum	146.16	
32 93 43 00-0278	EA		2" Caliper Liquidambar styraciflua - American Sweetgum	182.70	
32 93 43 00-0279	EA		2-1/2" Caliper Liquidambar styraciflua - American Sweetgum	228.37	
32 93 43 00-0280	EA		3" Caliper Liquidambar styraciflua - American Sweetgum	274.04	
32 93 43 00-0281	EA		3-1/2" Caliper Liquidambar styraciflua - American Sweetgum	319.72	
32 93 43 00-0282	EA		1-1/2" Caliper Liriodendron tulipifera - Tulip Tree	146.16	
32 93 43 00-0283	EA		2" Caliper Liriodendron tulipifera - Tulip Tree	200.97	
32 93 43 00-0284	EA		2-1/2" Caliper Liriodendron tulipifera - Tulip Tree	237.50	
32 93 43 00-0285	EA		3" Caliper Liriodendron tulipifera - Tulip Tree	274.04	
32 93 43 00-0286	EA		3-1/2" Caliper Liriodendron tulipifera - Tulip Tree	310.58	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0287 EA 8' Clump Form Liriodendron tulipifera - Tulip Tree.....	109.62	
32 93 43 00-0288 EA 10' Clump Form Liriodendron tulipifera - Tulip Tree.....	196.40	
32 93 43 00-0289 EA 12' Clump Form Liriodendron tulipifera - Tulip Tree.....	237.50	
32 93 43 00-0290 EA 1-1/2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum.....	146.16	
32 93 43 00-0291 EA 2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum.....	182.70	
32 93 43 00-0292 EA 2-1/2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum.....	228.37	
32 93 43 00-0293 EA 3" Caliper Nyssa sylvatica - Black Tupelo Sour Gum.....	274.04	
32 93 43 00-0294 EA 3-1/2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum.....	319.72	
32 93 43 00-0295 EA 4' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	63.94	
32 93 43 00-0296 EA 5' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	73.08	
32 93 43 00-0297 EA 6' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	86.78	
32 93 43 00-0298 EA 7' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	109.62	
32 93 43 00-0299 EA 8' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	137.02	
32 93 43 00-0300 EA 30" Box Platanus Occidentalis - Buttonwood Sycamore.....	198.43	
32 93 43 00-0301 EA 36" Box Platanus Occidentalis - Buttonwood Sycamore.....	288.63	
32 93 43 00-0302 EA 42" Box Platanus occidentalis - Buttonwood Sycamore.....	429.35	
32 93 43 00-0303 EA 1-1/2" To 2" Caliper Platanus occidentalis - Buttonwood Sycamore.....	66.40	
32 93 43 00-0304 EA 2" To 2-1/2" Caliper Platanus occidentalis - Buttonwood Sycamore.....	79.38	
32 93 43 00-0305 EA 2-1/2" To 3" Caliper Platanus occidentalis - Buttonwood Sycamore.....	108.23	
32 93 43 00-0306 EA 3" To 3-1/2" Caliper Platanus occidentalis - Buttonwood Sycamore.....	131.35	
32 93 43 00-0307 EA 8' To 10' Platanus occidentalis - Green Or Silver Buttonwood.....	54.63	
32 93 43 00-0308 EA 10' To 12' Platanus occidentalis - Green Or Silver Buttonwood.....	68.28	
32 93 43 00-0309 EA 12' To 14' Platanus occidentalis - Green Or Silver Buttonwood.....	120.81	
32 93 43 00-0310 EA 16' To 18' Platanus occidentalis - Green Or Silver Buttonwood.....	173.33	
32 93 43 00-0311 EA 2" Caliper Platanus x acerifolia & cvs - London Planetree.....	109.62	
32 93 43 00-0312 EA 2-1/2" Caliper Platanus x acerifolia & cvs - London Planetree.....	132.45	
32 93 43 00-0313 EA 3" Caliper Platanus x acerifolia & cvs - London Planetree.....	159.86	
32 93 43 00-0314 EA 3-1/2" Caliper Platanus x acerifolia & cvs - London Planetree.....	191.83	
32 93 43 00-0315 EA 4" Caliper Platanus x acerifolia & cvs - London Planetree.....	228.37	
32 93 43 00-0316 EA 2" Caliper Populus alba & cvs - White Poplar.....	109.62	
32 93 43 00-0317 EA 2-1/2" Caliper Populus alba & cvs - White Poplar.....	127.89	
32 93 43 00-0318 EA 3" Caliper Populus alba & cvs - White Poplar.....	146.16	
32 93 43 00-0319 EA 3-1/2" Caliper Populus alba & cvs - White Poplar.....	173.56	
32 93 43 00-0320 EA 4" Caliper Populus alba & cvs - White Poplar.....	191.83	
32 93 43 00-0321 EA 4-1/2" Caliper Populus alba & cvs - White Poplar.....	219.23	
32 93 43 00-0322 EA 2" Caliper Populus deltoides & cvs - Eastern Cottonwood.....	100.48	
32 93 43 00-0323 EA 2-1/2" Caliper Populus deltoides & cvs - Eastern Cottonwood.....	132.45	
32 93 43 00-0324 EA 3" Caliper Populus deltoides & cvs - Eastern Cottonwood.....	159.86	
32 93 43 00-0325 EA 3-1/2" Caliper Populus deltoides & cvs - Eastern Cottonwood.....	191.83	
32 93 43 00-0326 EA 4" Caliper Populus deltoides & cvs - Eastern Cottonwood.....	228.37	
32 93 43 00-0327 EA 2" Caliper Quercus palustris - Pin Oak.....	100.48	
32 93 43 00-0328 EA 2-1/2" Caliper Quercus palustris - Pin Oak.....	137.02	
32 93 43 00-0329 EA 3" Caliper Quercus palustris - Pin Oak.....	178.13	
32 93 43 00-0330 EA 3-1/2" Caliper Quercus palustris - Pin Oak.....	205.53	
32 93 43 00-0331 EA 4" Caliper Quercus palustris - Pin Oak.....	237.50	
32 93 43 00-0332 EA 4-1/2" Caliper Quercus palustris - Pin Oak.....	269.48	
32 93 43 00-0333 EA 5" Caliper Quercus palustris - Pin Oak.....	296.88	
32 93 43 00-0334 EA 2" Caliper Quercus shumardii - Shumard Oak.....	155.29	
32 93 43 00-0335 EA 2-1/2" Caliper Quercus shumardii - Shumard Oak.....	196.40	
32 93 43 00-0336 EA 3" Caliper Quercus shumardii - Shumard Oak.....	228.37	
32 93 43 00-0337 EA 3-1/2" Caliper Quercus shumardii - Shumard Oak.....	274.04	
32 93 43 00-0338 EA 4" Caliper Quercus shumardii - Shumard Oak.....	319.72	
32 93 43 00-0339 EA 4-1/2" Caliper Quercus shumardii - Shumard Oak.....	365.39	
32 93 43 00-0340 EA 5" Caliper Quercus shumardii - Shumard Oak.....	411.07	
32 93 43 00-0341 EA 24" Box Salix babylonica - Weeping Willow.....	115.44	
32 93 43 00-0342 EA 36" Box Salix babylonica - Weeping Willow.....	288.63	
32 93 43 00-0343 EA 1-1/2" To 2" Caliper Salix babylonica - Weeping Willow.....	66.40	
32 93 43 00-0344 EA 2" To 2-1/2" Caliper Salix babylonica - Weeping Willow.....	79.38	
32 93 43 00-0345 EA 2-1/2" To 3" Caliper Salix babylonica - Weeping Willow.....	86.59	
32 93 43 00-0346 EA 2' Thuja occidentalis - American Arborvitae.....	15.65	
32 93 43 00-0347 EA 2-1/2' Thuja occidentalis - American Arborvitae.....	16.91	
32 93 43 00-0348 EA 3' Thuja occidentalis - American Arborvitae.....	24.16	
32 93 43 00-0349 EA 4' Thuja occidentalis - American Arborvitae.....	33.20	
32 93 43 00-0350 EA 5' Thuja occidentalis - American Arborvitae.....	46.22	
32 93 43 00-0351 EA 6' Thuja occidentalis - American Arborvitae.....	64.08	
32 93 43 00-0352 EA 7' Thuja occidentalis - American Arborvitae.....	77.74	
32 93 43 00-0353 EA 8' Thuja occidentalis - American Arborvitae.....	109.25	
32 93 43 00-0354 EA 2" Caliper Tilia cordata & cvs - Littleleaf Linden.....	114.87	
32 93 43 00-0355 EA 2-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden.....	138.76	
32 93 43 00-0356 EA 3" Caliper Tilia cordata & cvs - Littleleaf Linden.....	159.86	
32 93 43 00-0357 EA 3-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden.....	196.40	
32 93 43 00-0358 EA 4" Caliper Tilia cordata & cvs - Littleleaf Linden.....	223.80	
32 93 43 00-0359 EA 4-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden.....	251.21	
32 93 43 00-0360 EA 5" Caliper Tilia cordata & cvs - Littleleaf Linden.....	278.61	
32 93 43 00-0361 EA 2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm.....	127.89	
32 93 43 00-0362 EA 2-1/2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm.....	146.16	
32 93 43 00-0363 EA 3" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm.....	159.86	
32 93 43 00-0364 EA 3-1/2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm.....	173.56	
32 93 43 00-0365 EA 4" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm.....	191.83	
32 93 43 00-0366 EA 4-1/2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm.....	228.37	
32 93 43 00-0367 EA 5" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm.....	269.48	



Exterior Improvements			32
Planting			32 90
Plants			32 93

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0368	EA		2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm.....	146.16	
32 93 43 00-0369	EA		2-1/2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm.....	159.86	
32 93 43 00-0370	EA		3" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm.....	173.56	
32 93 43 00-0371	EA		3-1/2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm.....	191.83	
32 93 43 00-0372	EA		4" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm.....	228.37	
32 93 43 00-0373	EA		4-1/2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm.....	269.48	
32 93 43 00-0374	EA		5" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm.....	310.58	
32 93 43 00-0375	EA		2" Caliper Ulmus x 'Regal' - Regal Hybrid Elm.....	146.16	
32 93 43 00-0376	EA		2-1/2" Mary-Louise Parker Ulmus x 'Regal' - Regal Hybrid Elm.....	159.86	
32 93 43 00-0377	EA		3" Caliper Ulmus x 'Regal' - Regal Hybrid Elm.....	173.56	
32 93 43 00-0378	EA		3-1/2" Caliper Ulmus x 'Regal' - Regal Hybrid Elm.....	191.83	
32 93 43 00-0379	EA		4" Caliper Ulmus x 'Regal' - Regal Hybrid Elm.....	228.37	
32 93 43 00-0380	EA		4-1/2" Caliper Ulmus x 'Regal' - Regal Hybrid Elm.....	269.48	
32 93 43 00-0381	EA		5" Caliper Ulmus x 'Regal' - Regal Hybrid Elm.....	310.58	
32 93 43 00-0382					
Evergreen Trees (32 93 43)					
Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.					
32 93 43 00-0383	EA		2' To 3' Cedrus atlantica - Blue Atlas Cedar.....	20.84	
32 93 43 00-0384	EA		3' To 4' Cedrus atlantica - Blue Atlas Cedar.....	33.51	
32 93 43 00-0385	EA		4' To 5' Cedrus atlantica - Blue Atlas Cedar.....	49.78	
32 93 43 00-0386	EA		5' To 6' Cedrus atlantica - Blue Atlas Cedar.....	66.97	
32 93 43 00-0387	EA		7' To 8' Cedrus atlantica - Blue Atlas Cedar.....	95.08	
32 93 43 00-0388	EA		6' To 8' Cedrus deodara - Indian Cedar.....	86.03	
32 93 43 00-0389	EA		8' To 10' Cedrus deodara - Indian Cedar.....	99.60	
32 93 43 00-0390	EA		10' To 12' Cedrus deodara - Indian Cedar.....	135.81	
32 93 43 00-0391	EA		12' To 14' Cedrus deodara - Indian Cedar.....	176.53	
32 93 43 00-0392	EA		14' To 16' Cedrus deodara - Indian Cedar.....	226.36	
32 93 43 00-0393	EA		15" To 18" Chamaecyparis obtusa - Compact Hinoki Cypress.....	26.89	
32 93 43 00-0394	EA		18" To 24" Chamaecyparis obtusa - Compact Hinoki Cypress.....	40.34	
32 93 43 00-0395	EA		2' To 3' Chamaecyparis obtusa - Compact Hinoki Cypress.....	62.75	
32 93 43 00-0396	EA		3' To 4' Chamaecyparis obtusa - Compact Hinoki Cypress.....	107.56	
32 93 43 00-0397	EA		5 Gallon Cupressocyparis leylandii - Leyland Cypress.....	14.79	
32 93 43 00-0398	EA		15 Gallon Cupressocyparis leylandii - Leyland Cypress.....	59.18	
32 93 43 00-0399	EA		4' To 5' Cupressocyparis leylandii - Leyland Cypress.....	25.89	
32 93 43 00-0400	EA		5' To 6' Cupressocyparis leylandii - Leyland Cypress.....	33.29	
32 93 43 00-0401	EA		6' To 7' Cupressocyparis leylandii - Leyland Cypress.....	51.78	
32 93 43 00-0402	EA		24" Box Cupressocyparis leylandii - Leyland Cypress.....	125.75	
32 93 43 00-0403	EA		1 Gallon Cupressus macrocarpa - Monterey Cypress.....	2.70	
32 93 43 00-0404	EA		5 Gallon Cupressus macrocarpa - Monterey Cypress.....	12.14	
32 93 43 00-0405	EA		15 Gallon Cupressus macrocarpa - Monterey Cypress.....	40.47	
32 93 43 00-0406	EA		5 Gallon Cupressus sempervirens - Italian Cypress.....	13.92	
32 93 43 00-0407	EA		15 Gallon Cupressus sempervirens - Italian Cypress.....	38.29	
32 93 43 00-0408	EA		1 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper.....	4.09	
32 93 43 00-0409	EA		2 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper.....	8.01	
32 93 43 00-0410	EA		3 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper.....	9.92	
32 93 43 00-0411	EA		5 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper.....	11.66	
32 93 43 00-0412	EA		1 Gallon Juniperus - Blue Sargent Juniper.....	4.09	
32 93 43 00-0413	EA		2 Gallon Juniperus - Blue Sargent Juniper.....	8.01	
32 93 43 00-0414	EA		3 Gallon Juniperus - Blue Sargent Juniper.....	9.92	
32 93 43 00-0415	EA		5 Gallon Juniperus - Blue Sargent Juniper.....	11.66	
32 93 43 00-0416	EA		5 Gallon Juniperus - Compact Pfitzer Juniper.....	11.66	
32 93 43 00-0417	EA		15" To 18" Juniperus - Compact Pfitzer Juniper.....	12.62	
32 93 43 00-0418	EA		18" To 24" Juniperus - Compact Pfitzer Juniper.....	15.23	
32 93 43 00-0419	EA		2' To 2 1/2' Juniperus - Compact Pfitzer Juniper.....	22.63	
32 93 43 00-0420	EA		2-1/2' To 3' Juniperus - Compact Pfitzer Juniper.....	26.19	
32 93 43 00-0421	EA		5' To 6' Juniperus - Fairview Juniper.....	39.02	
32 93 43 00-0422	EA		1 Gallon Juniperus - Hollywood Juniper.....	5.22	
32 93 43 00-0423	EA		5 Gallon Juniperus - Hollywood Juniper.....	14.53	
32 93 43 00-0424	EA		15 Gallon Juniperus - Hollywood Juniper.....	61.61	
32 93 43 00-0425	EA		4' To 5' Juniperus - Hollywood Juniper.....	40.73	
32 93 43 00-0426	EA		5' To 6' Juniperus - Hollywood Juniper.....	52.48	
32 93 43 00-0427	EA		1 Gallon Juniperus - Parson's Juniper.....	4.09	
32 93 43 00-0428	EA		2 Gallon Juniperus - Parson's Juniper.....	8.09	
32 93 43 00-0429	EA		3 Gallon Juniperus - Parson's Juniper.....	10.01	
32 93 43 00-0430	EA		5 Gallon Juniperus - Parson's Juniper.....	11.84	
32 93 43 00-0431	EA		5 Gallon Juniperus - Skyrocket Juniper.....	14.62	
32 93 43 00-0432	EA		15 Gallon Juniperus - Skyrocket Juniper.....	62.22	
32 93 43 00-0433	EA		2' To 3' Juniperus - Skyrocket Juniper.....	21.93	
32 93 43 00-0434	EA		3' To 4' Juniperus - Skyrocket Juniper.....	31.07	
32 93 43 00-0435	EA		4' To 5' Juniperus - Skyrocket Juniper.....	41.16	
32 93 43 00-0436	EA		5' To 6' Juniperus - Skyrocket Juniper.....	53.09	
32 93 43 00-0437	EA		6' To 8' Juniperus - Skyrocket Juniper.....	68.58	
32 93 43 00-0438	EA		1 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper.....	4.09	
32 93 43 00-0439	EA		2 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper.....	8.05	
32 93 43 00-0440	EA		3 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper.....	9.88	
32 93 43 00-0441	EA		5 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper.....	11.71	
32 93 43 00-0442	EA		1 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper.....	4.09	
32 93 43 00-0443	EA		2 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper.....	8.05	
32 93 43 00-0444	EA		3 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper.....	9.88	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0445 EA 5 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper.....	11.71	
32 93 43 00-0446 EA 3' Pinus sylvestris - Scotch Pine	38.01	
32 93 43 00-0447 EA 4' Pinus sylvestris - Scotch Pine	52.77	
32 93 43 00-0448 EA 5' Pinus sylvestris - Scotch Pine	74.06	
32 93 43 00-0449 EA 6' Pinus sylvestris - Scotch Pine	102.76	
32 93 43 00-0450 EA 7' Pinus sylvestris - Scotch Pine	125.91	
32 93 43 00-0451 EA 8' Pinus sylvestris - Scotch Pine	177.75	
32 93 43 00-0452 EA 9' Pinus sylvestris - Scotch Pine	225.66	
32 93 43 00-0453 EA 10' Pinus sylvestris - Scotch Pine	260.37	
32 93 43 00-0454 EA 12' Pinus sylvestris - Scotch Pine	306.66	
32 93 43 00-0455 EA 14' Pinus sylvestris - Scotch Pine	347.17	
32 93 43 00-0456 EA 16' Pinus sylvestris - Scotch Pine	405.03	
32 93 43 00-0457 EA 1 Gallon Pinus thunbergiana - Japanese Black Pine	4.09	
32 93 43 00-0458 EA 5 Gallon Pinus thunbergiana - Japanese Black Pine	14.53	
32 93 43 00-0459 EA 15 Gallon Pinus thunbergiana - Japanese Black Pine	47.08	
32 93 43 00-0460 EA 2' To 3' Pinus thunbergiana - Japanese Black Pine	19.93	
32 93 43 00-0461 EA 3' To 4' Pinus thunbergiana - Japanese Black Pine	25.32	
32 93 43 00-0462 EA 4' To 5' Pinus thunbergiana - Japanese Black Pine	38.03	
32 93 43 00-0463 EA 5' To 6' Pinus thunbergiana - Japanese Black Pine	74.23	
32 93 43 00-0464 EA 6' To 7' Pinus Thunbergiana - Japanese Black Pine	83.28	
32 93 43 00-0465 EA 7' To 8' Pinus thunbergiana - Japanese Black Pine	104.08	
32 93 43 00-0466 EA 6' Pinus flexilis & cvs - Limber Pine	144.65	
32 93 43 00-0467 EA 7' Pinus flexilis & cvs - Limber Pine	167.80	
32 93 43 00-0468 EA 8' Pinus flexilis & cvs - Limber Pine	208.30	
32 93 43 00-0469 EA 9' Pinus flexilis & cvs - Limber Pine	254.59	
32 93 43 00-0470 EA 10' Pinus flexilis & cvs - Limber Pine	289.30	
32 93 43 00-0471 EA 1 Gallon Pinus mugo - Mugho Pine	5.40	
32 93 43 00-0472 EA 2 Gallon Pinus mugo - Mugho Pine	11.40	
32 93 43 00-0473 EA 3 Gallon Pinus mugo - Mugho Pine	14.27	
32 93 43 00-0474 EA 5 Gallon Pinus mugo - Mugho Pine	18.10	
32 93 43 00-0475 EA 12" To 15" Spread Pinus mugo - Mugho Pine	14.01	
32 93 43 00-0476 EA 15" To 18" Spread Pinus mugo - Mugho Pine	16.71	
32 93 43 00-0477 EA 18" To 24" Spread Pinus mugo - Mugho Pine	22.63	
32 93 43 00-0478 EA 2' To 2-1/2' Spread Pinus mugo - Mugho Pine	31.68	
32 93 43 00-0479 EA 2-1/2' To 3' Spread Pinus mugo - Mugho Pine	40.73	
32 93 43 00-0480 EA 3' To 3-1/2' Spread Pinus mugo - Mugho Pine	50.74	
32 93 43 00-0481 EA 3-1/2' To 4' Spread Pinus mugo - Mugho Pine	61.61	
32 93 43 00-0482 EA 6' Pinus nigra - Austrian Pine	144.65	
32 93 43 00-0483 EA 7' Pinus nigra - Austrian Pine	173.58	
32 93 43 00-0484 EA 8' Pinus nigra - Austrian Pine	225.66	
32 93 43 00-0485 EA 9' Pinus nigra - Austrian Pine	260.37	
32 93 43 00-0486 EA 10' Pinus nigra - Austrian Pine	306.66	
32 93 43 00-0487 EA 12' Pinus nigra - Austrian Pine	347.17	
32 93 43 00-0488 EA 14' Pinus nigra - Austrian Pine	387.67	
32 93 43 00-0489 EA 16' Pinus nigra - Austrian Pine	439.74	
32 93 43 00-0490 EA 1 Gallon Podocarpus - Chinese Podocarpus	2.70	
32 93 43 00-0491 EA 3 Gallon Podocarpus - Chinese Podocarpus	6.27	
32 93 43 00-0492 EA 7 Gallon Podocarpus - Chinese Podocarpus	18.10	
32 93 43 00-0493 EA 15 Gallon Podocarpus - Chinese Podocarpus	29.41	
32 93 43 00-0494 EA 4' To 5' Podocarpus - Chinese Podocarpus	45.25	
32 93 43 00-0495 EA 5' To 6' Sequoia sempervirens - Dawn Redwood	56.57	
32 93 43 00-0496 EA 6' To 8' Sequoia sempervirens - Dawn Redwood	76.37	
32 93 43 00-0497 EA 8' To 10' Sequoia sempervirens - Dawn Redwood	93.34	
32 93 43 00-0498 EA 3' To 4' Thuja occidentalis 'Wareana' - Siberian Arborvitae	10.91	
32 93 43 00-0499 EA 3' To 4' Thuja occidentalis 'Woodwardii' - Woodward Arborvitae	20.65	

32 93 43 00-0500**Palm And Subtropical Trees (32 93 43)**

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0501 EA 9' Ptychosperma elegans - Alexander Palm, Solitaire Palm	136.60	
32 93 43 00-0502 EA 11' Ptychosperma elegans - Alexander Palm, Solitaire Palm	227.68	
32 93 43 00-0503 EA 15' Ptychosperma elegans - Alexander Palm, Solitaire Palm	346.07	
32 93 43 00-0504 EA 17' Ptychosperma elegans - Alexander Palm, Solitaire Palm	391.60	
32 93 43 00-0505 EA 20' Ptychosperma elegans - Alexander Palm, Solitaire Palm	455.35	
32 93 43 00-0506 EA 4' To 5' Bauninia blakeana - Hong Kong Orchid	391.60	
32 93 43 00-0507 EA 6' Bauninia blakeana - Hong Kong Orchid	464.46	
32 93 43 00-0508 EA 8' Bauninia blakeana - Hong Kong Orchid	619.28	
32 93 43 00-0509 EA 10' Bauninia blakeana - Hong Kong Orchid	774.10	
32 93 43 00-0510 EA 4' To 5' Acacia baileyana - Bailey Acacia	210.10	
32 93 43 00-0511 EA 6' Acacia baileyana - Bailey Acacia	252.12	
32 93 43 00-0512 EA 8' Acacia baileyana - Bailey Acacia	294.14	
32 93 43 00-0513 EA 10' Acacia baileyana - Bailey Acacia	367.68	
32 93 43 00-0514 EA 6' Agonis flexuosa - Peppermint Tree	126.06	
32 93 43 00-0515 EA 8' Agonis flexuosa - Peppermint Tree	157.58	
32 93 43 00-0516 EA 10' Agonis flexuosa - Peppermint Tree	189.09	
32 93 43 00-0517 EA 24" Box Agonis flexuosa - Peppermint Tree	157.05	
32 93 43 00-0518 EA 6' Bauhinia purpurea - Purple Orchid Tree	491.78	
32 93 43 00-0519 EA 8' Bauhinia purpurea - Purple Orchid Tree	655.70	
32 93 43 00-0520 EA 10' Bauhinia purpurea - Purple Orchid Tree	819.63	
32 93 43 00-0521 EA 24" Box Bauhinia purpurea - Purple Orchid Tree	213.10	



Exterior Improvements	32	32
Planting	32 90	
Plants	32 93	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0522	EA	6'	Bauhinia variegata candida - White Orchid Tree.....	546.42	
32 93 43 00-0523	EA	8'	Bauhinia variegata candida - White Orchid Tree.....	728.56	
32 93 43 00-0524	EA	10'	Bauhinia variegata candida - White Orchid Tree.....	910.70	
32 93 43 00-0525	EA	6'	Callistemon citrinus - Crimson or Lemon Bottle Brush.....	283.64	
32 93 43 00-0526	EA	8'	Callistemon citrinus - Crimson or Lemon Bottle Brush.....	378.18	
32 93 43 00-0527	EA	10'	Callistemon citrinus - Crimson or Lemon Bottle Brush.....	472.72	
32 93 43 00-0528	EA	6'	Eriobotrya deflexa - Bronze Loquat.....	491.78	
32 93 43 00-0529	EA	8'	Eriobotrya deflexa - Bronze Loquat.....	655.70	
32 93 43 00-0530	EA	10'	Eriobotrya deflexa - Bronze Loquat.....	819.63	
32 93 43 00-0531	EA	6'	Eucalyptus erythrocorys - Red Cap Gum.....	491.78	
32 93 43 00-0532	EA	8'	Eucalyptus erythrocorys - Red Cap Gum.....	655.70	
32 93 43 00-0533	EA	10'	Eucalyptus erythrocorys - Red Cap Gum.....	819.63	
32 93 43 00-0534	EA	6'	Eucalyptus torquata - Coral Gum.....	491.78	
32 93 43 00-0535	EA	8'	Eucalyptus torquata - Coral Gum.....	655.70	
32 93 43 00-0536	EA	10'	Eucalyptus torquata - Coral Gum.....	819.63	
32 93 43 00-0537	EA	8'	Fraxinus oxycarpa "Raywood" - Raywood Ash.....	294.14	
32 93 43 00-0538	EA	10'	Fraxinus oxycarpa "Raywood" - Raywood Ash.....	399.19	
32 93 43 00-0539	EA	12'	Fraxinus oxycarpa "Raywood" - Raywood Ash.....	493.74	
32 93 43 00-0540	EA	1	Gallon Washingtonia robusta - Mexican Fan Palm.....	8.69	
32 93 43 00-0541	EA	5	Gallon Washingtonia robusta - Mexican Fan Palm.....	27.04	
32 93 43 00-0542	EA	15	Gallon Washingtonia robusta - Mexican Fan Palm.....	94.63	
32 93 43 00-0543	EA	24"	Box Washingtonia robusta - Mexican Fan Palm.....	309.01	
32 93 43 00-0544	EA	36"	Box Washingtonia robusta - Mexican Fan Palm.....	820.80	
32 93 43 00-0545	EA	6'	Washingtonia robusta - Mexican Fan Palm.....	491.78	
32 93 43 00-0546	EA	8'	Washingtonia robusta - Mexican Fan Palm.....	655.70	
32 93 43 00-0547	EA	10'	Washingtonia robusta - Mexican Fan Palm.....	819.63	
32 93 43 00-0548	EA	12'	Washingtonia robusta - Mexican Fan Palm.....	983.56	
32 93 43 00-0549	EA	6'	Olea europaea - Olive "Fruitless".....	359.32	
32 93 43 00-0550	EA	8'	Olea europaea - Olive "Fruitless".....	479.09	
32 93 43 00-0551	EA	10'	Olea europaea - Olive "Fruitless".....	598.86	
32 93 43 00-0552	EA	12'	Olea europaea - Olive "Fruitless".....	718.63	
32 93 43 00-0553	EA	24"	Box Olea europaea - Olive "Fruitless".....	441.83	
32 93 43 00-0554	EA	6'	Eucalyptus polyanthemos - Silver Dollar Gum.....	491.78	
32 93 43 00-0555	EA	8'	Eucalyptus polyanthemos - Silver Dollar Gum.....	655.70	
32 93 43 00-0556	EA	10'	Eucalyptus polyanthemos - Silver Dollar Gum.....	819.63	
32 93 43 00-0557	EA	6'	Eucalyptus leucoxylon - White Ironbark.....	491.78	
32 93 43 00-0558	EA	8'	Eucalyptus leucoxylon - White Ironbark.....	655.70	
32 93 43 00-0559	EA	10'	Eucalyptus leucoxylon - White Ironbark.....	819.63	
32 93 43 00-0560	EA	12'	Eucalyptus leucoxylon - White Ironbark.....	983.56	
32 93 43 00-0561	EA	6'	Callistemon viminalis - Weeping Bottle Brush.....	283.64	
32 93 43 00-0562	EA	8'	Callistemon viminalis - Weeping Bottle Brush.....	378.18	
32 93 43 00-0563	EA	10'	Callistemon viminalis - Weeping Bottle Brush.....	472.72	
32 93 43 00-0564	EA	12'	Callistemon viminalis - Weeping Bottle Brush.....	567.27	
32 93 43 00-0565	EA	6'	Eucalyptus gunnii - Cider Gum.....	491.78	
32 93 43 00-0566	EA	8'	Eucalyptus gunnii - Cider Gum.....	655.70	
32 93 43 00-0567	EA	10'	Eucalyptus gunnii - Cider Gum.....	819.63	
32 93 43 00-0568	EA	6'	Jacarandra acutifolia - Jacaranda.....	491.78	
32 93 43 00-0569	EA	8'	Jacarandra acutifolia - Jacaranda.....	655.70	
32 93 43 00-0570	EA	10'	Jacarandra acutifolia - Jacaranda.....	819.63	
32 93 43 00-0571	EA	24"	Box Jacarandra acutifolia - Jacaranda.....	213.10	
32 93 43 00-0572	EA	5	Gallon Pistacia chinensis - Chinese Pistache.....	32.79	
32 93 43 00-0573	EA	15	Gallon Pistacia chinensis - Chinese Pistache.....	109.28	
32 93 43 00-0574	EA	24"	Box Pistacia chinensis - Chinese Pistache.....	424.39	
32 93 43 00-0575	EA	36"	Box Pistacia chinensis - Chinese Pistache.....	1,129.27	
32 93 43 00-0576	EA	48"	Box Pistacia chinensis - Chinese Pistache.....	2,404.25	
32 93 43 00-0577	EA	5	Gallon Pyrus kawakamii - Evergreen Pear, Single.....	19.54	
32 93 43 00-0578	EA	15	Gallon Pyrus kawakamii - Evergreen Pear, Single.....	65.13	
32 93 43 00-0579	EA	24"	Box Pyrus kawakamii - Evergreen Pear, Single.....	244.77	
32 93 43 00-0580	EA	30"	Box Pyrus kawakamii - Evergreen Pear, Single.....	447.51	
32 93 43 00-0581	EA	36"	Box Pyrus kawakamii - Evergreen Pear, Single.....	651.31	
32 93 43 00-0582	EA	5	Gallon Pyrus kawakamii - Evergreen Pear, Multi.....	19.54	
32 93 43 00-0583	EA	15	Gallon Pyrus kawakamii - Evergreen Pear, Multi.....	69.33	
32 93 43 00-0584	EA	24"	Box Pyrus kawakamii - Evergreen Pear, Multi.....	252.12	
32 93 43 00-0585	EA	30"	Box Pyrus kawakamii - Evergreen Pear, Multi.....	447.51	
32 93 43 00-0586	EA	36"	Box Pyrus kawakamii - Evergreen Pear, Multi.....	651.31	

32 93 83 Planting of Trees, Shrubs and Ground Cover (32 93)

Note: Includes moving plant(s) from truck or staging site to planting site, excavation of hole, placing plant in hole, backfill and compaction. Use appropriate gallon, height or caliper size to match with description from plant section.

32 93 83 00-0001 Planting Trees (32 93 83)

Note: Excludes mulch. See CSI section 32 91 13 16-0001 for mulch.

32 93 83 00-0002	EA	3" To 5" Bare Root Seedlings Tree Planting.....	1.34
32 93 83 00-0003	EA	6" To 10" Bare Root Seedlings Tree Planting.....	2.15
32 93 83 00-0004	EA	11" To 16" Bare Root Seedlings Tree Planting.....	2.68
32 93 83 00-0005	EA	17" To 24" Bare Root Seedlings Tree Planting.....	4.29
32 93 83 00-0006	EA	1 Gallon Container Tree Planting.....	21.45
		For >10 To 25, Deduct.....	-1.07
		For >25 To 50, Deduct.....	-2.68
		For >50 To 100, Deduct.....	-4.29
		For >100, Deduct.....	-6.44

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0007	EA		2 Gallon Container Tree Planting.....	30.03	
			For>10 To 25, Deduct	-1.50	
			For>25 To 50, Deduct	-3.75	
			For>50 To 100, Deduct	-6.01	
			For>100, Deduct	-9.01	
32 93 83 00-0008	EA		3 Gallon Container Tree Planting.....	38.60	
			For>10 To 25, Deduct	-1.93	
			For>25 To 50, Deduct	-4.83	
			For>50 To 100, Deduct	-7.72	
			For>100, Deduct	-11.58	
32 93 83 00-0009	EA		5 Gallon Container Tree Planting.....	64.34	
			For>10 To 25, Deduct	-3.22	
			For>25 To 50, Deduct	-8.04	
			For>50 To 100, Deduct	-12.87	
			For>100, Deduct	-19.30	
32 93 83 00-0010	EA		7 Gallon Container Tree Planting.....	85.78	
			For>10 To 25, Deduct	-4.29	
			For>25 To 50, Deduct	-10.72	
			For>50 To 100, Deduct	-17.16	
			For>100, Deduct	-25.73	
32 93 83 00-0011	EA		10 Gallon Container Tree Planting.....	111.52	
			For>10 To 25, Deduct	-5.58	
			For>25 To 50, Deduct	-13.94	
			For>50 To 100, Deduct	-22.30	
			For>100, Deduct	-33.46	
32 93 83 00-0012	EA		15 Gallon Container Tree Planting.....	158.70	
			For>10 To 25, Deduct	-7.94	
			For>25 To 50, Deduct	-19.84	
			For>50 To 100, Deduct	-31.74	
			For>100, Deduct	-47.61	
32 93 83 00-0013	EA		20 Gallon Container Tree Planting.....	261.65	
			For>10 To 25, Deduct	-13.08	
			For>25 To 50, Deduct	-32.71	
			For>50 To 100, Deduct	-52.33	
			For>100, Deduct	-78.50	
32 93 83 00-0014	EA		25 Gallon Container Tree Planting.....	338.86	
			For>10 To 25, Deduct	-16.94	
			For>25 To 50, Deduct	-42.36	
			For>50 To 100, Deduct	-67.77	
			For>100, Deduct	-101.66	
32 93 83 00-0015	EA		30 Gallon Container Tree Planting.....	407.48	
			For>10 To 25, Deduct	-20.37	
			For>25 To 50, Deduct	-50.94	
			For>50 To 100, Deduct	-81.50	
			For>100, Deduct	-122.24	
32 93 83 00-0016	EA		45 Gallon Container Tree Planting.....	506.15	
			For>10 To 25, Deduct	-25.31	
			For>25 To 50, Deduct	-63.27	
			For>50 To 100, Deduct	-101.23	
			For>100, Deduct	-151.85	
32 93 83 00-0017	EA		65 Gallon Container Tree Planting.....	600.51	
			For>10 To 25, Deduct	-30.03	
			For>25 To 50, Deduct	-75.06	
			For>50 To 100, Deduct	-120.10	
			For>100, Deduct	-180.15	
32 93 83 00-0018	EA		6' Balled And Burlapped Tree Planting	214.47	
			For>10 To 25, Deduct	-10.72	
			For>25 To 50, Deduct	-26.81	
			For>50 To 100, Deduct	-42.89	
			For>100, Deduct	-64.34	
32 93 83 00-0019	EA		7' Balled And Burlapped Tree Planting	285.67	
			For>10 To 25, Deduct	-14.28	
			For>25 To 50, Deduct	-35.71	
			For>50 To 100, Deduct	-57.13	
			For>100, Deduct	-85.70	
32 93 83 00-0020	EA		8' Balled And Burlapped Tree Planting	321.70	
			For>10 To 25, Deduct	-16.09	
			For>25 To 50, Deduct	-40.21	
			For>50 To 100, Deduct	-64.34	
			For>100, Deduct	-96.51	
32 93 83 00-0021	EA		10' Balled And Burlapped Tree Planting	375.32	
			For>10 To 25, Deduct	-18.77	
			For>25 To 50, Deduct	-46.92	
			For>50 To 100, Deduct	-75.06	
			For>100, Deduct	-112.60	
32 93 83 00-0022	EA		12' Balled And Burlapped Tree Planting	501.86	
			For>10 To 25, Deduct	-25.09	
			For>25 To 50, Deduct	-62.73	
			For>50 To 100, Deduct	-100.37	
			For>100, Deduct	-150.56	
32 93 83 00-0023	EA		14' Balled And Burlapped Tree Planting	574.78	
			For>10 To 25, Deduct	-28.74	
			For>25 To 50, Deduct	-71.85	
			For>50 To 100, Deduct	-114.96	
			For>100, Deduct	-172.43	



Exterior Improvements			32
Planting			32 90
Plants			32 93

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0024	EA		16' Balled And Burlapped Tree Planting	697.03	
			For >10 To 25, Deduct	-34.85	
			For >25 To 50, Deduct	-87.13	
			For >50 To 100, Deduct	-139.41	
			For >100, Deduct	-209.11	
32 93 83 00-0025	EA		18' Balled And Burlapped Tree Planting	836.43	
			For >10 To 25, Deduct	-41.82	
			For >25 To 50, Deduct	-104.55	
			For >50 To 100, Deduct	-167.29	
			For >100, Deduct	-250.93	
32 93 83 00-0026	EA		20' Balled And Burlapped Tree Planting	965.11	
			For >10 To 25, Deduct	-48.26	
			For >25 To 50, Deduct	-120.64	
			For >50 To 100, Deduct	-193.02	
			For >100, Deduct	-289.53	
32 93 83 00-0027	EA		1-1/2" Caliper Balled And Burlapped Tree Planting	321.70	
			For >10 To 25, Deduct	-16.09	
			For >25 To 50, Deduct	-40.21	
			For >50 To 100, Deduct	-64.34	
			For >100, Deduct	-96.51	
32 93 83 00-0028	EA		2" Caliper Balled And Burlapped Tree Planting	375.32	
			For >10 To 25, Deduct	-18.77	
			For >25 To 50, Deduct	-46.92	
			For >50 To 100, Deduct	-75.06	
			For >100, Deduct	-112.60	
32 93 83 00-0029	EA		2-1/2" Caliper Balled And Burlapped Tree Planting	504.00	
			For >10 To 25, Deduct	-25.20	
			For >25 To 50, Deduct	-63.00	
			For >50 To 100, Deduct	-100.80	
			For >100, Deduct	-151.20	
32 93 83 00-0030	EA		3" Caliper Balled And Burlapped Tree Planting	579.06	
			For >10 To 25, Deduct	-28.95	
			For >25 To 50, Deduct	-72.38	
			For >50 To 100, Deduct	-115.81	
			For >100, Deduct	-173.72	
32 93 83 00-0031	EA		3-1/2" Caliper Balled And Burlapped Tree Planting	643.41	
			For >10 To 25, Deduct	-32.17	
			For >25 To 50, Deduct	-80.43	
			For >50 To 100, Deduct	-128.68	
			For >100, Deduct	-193.02	
32 93 83 00-0032	EA		4" Caliper Balled And Burlapped Tree Planting	737.76	
			For >10 To 25, Deduct	-36.89	
			For >25 To 50, Deduct	-92.22	
			For >50 To 100, Deduct	-147.55	
			For >100, Deduct	-221.33	
32 93 83 00-0033			Planting Shrubs ^(32 93 83)		
			Note: Excludes mulch. See CSI section 32 91 13 16-0001 for mulch.		
32 93 83 00-0034	EA		1 Gallon Container Shrub Planting	18.24	
			For >10 To 25, Deduct	-0.91	
			For >25 To 50, Deduct	-2.28	
			For >50 To 100, Deduct	-3.65	
			For >100, Deduct	-5.47	
32 93 83 00-0035	EA		2 Gallon Container Shrub Planting	25.73	
			For >10 To 25, Deduct	-1.29	
			For >25 To 50, Deduct	-3.22	
			For >50 To 100, Deduct	-5.15	
			For >100, Deduct	-7.72	
32 93 83 00-0036	EA		3 Gallon Container Shrub Planting	32.17	
			For >10 To 25, Deduct	-1.61	
			For >25 To 50, Deduct	-4.02	
			For >50 To 100, Deduct	-6.43	
			For >100, Deduct	-9.65	
32 93 83 00-0037	EA		4 Gallon Container Shrub Planting	42.90	
			For >10 To 25, Deduct	-2.15	
			For >25 To 50, Deduct	-5.36	
			For >50 To 100, Deduct	-8.58	
			For >100, Deduct	-12.87	
32 93 83 00-0038	EA		5 Gallon Container Shrub Planting	53.62	
			For >10 To 25, Deduct	-2.68	
			For >25 To 50, Deduct	-6.70	
			For >50 To 100, Deduct	-10.72	
			For >100, Deduct	-16.09	
32 93 83 00-0039	EA		7 Gallon Container Shrub Planting	72.92	
			For >10 To 25, Deduct	-3.65	
			For >25 To 50, Deduct	-9.12	
			For >50 To 100, Deduct	-14.58	
			For >100, Deduct	-21.88	
32 93 83 00-0040	EA		10 Gallon Container Shrub Planting	96.51	
			For >10 To 25, Deduct	-4.83	
			For >25 To 50, Deduct	-12.06	
			For >50 To 100, Deduct	-19.30	
			For >100, Deduct	-28.95	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0041 EA 15 Gallon Container Shrub Planting	132.97	
For>10 To 25, Deduct	-6.65	
For>25 To 50, Deduct	-16.62	
For>50 To 100, Deduct	-26.59	
For>100, Deduct	-39.89	
32 93 83 00-0042 EA 20 Gallon Container Shrub Planting	223.05	
For>10 To 25, Deduct	-11.15	
For>25 To 50, Deduct	-27.88	
For>50 To 100, Deduct	-44.61	
For>100, Deduct	-66.92	
32 93 83 00-0043 EA 25 Gallon Container Shrub Planting	285.67	
For>10 To 25, Deduct	-14.28	
For>25 To 50, Deduct	-35.71	
For>50 To 100, Deduct	-57.13	
For>100, Deduct	-85.70	
32 93 83 00-0044 EA 15" Balled And Burlapped Shrub Planting	60.05	
For>10 To 25, Deduct	-3.00	
For>25 To 50, Deduct	-7.51	
For>50 To 100, Deduct	-12.01	
For>100, Deduct	-18.02	
32 93 83 00-0045 EA 18" Balled And Burlapped Shrub Planting	62.20	
For>10 To 25, Deduct	-3.11	
For>25 To 50, Deduct	-7.78	
For>50 To 100, Deduct	-12.44	
For>100, Deduct	-18.66	
32 93 83 00-0046 EA 24" Balled And Burlapped Shrub Planting	68.63	
For>10 To 25, Deduct	-3.43	
For>25 To 50, Deduct	-8.58	
For>50 To 100, Deduct	-13.73	
For>100, Deduct	-20.59	
32 93 83 00-0047 EA 30" Balled And Burlapped Shrub Planting	68.63	
For>10 To 25, Deduct	-3.43	
For>25 To 50, Deduct	-8.58	
For>50 To 100, Deduct	-13.73	
For>100, Deduct	-20.59	
32 93 83 00-0048 EA 36" Balled And Burlapped Shrub Planting	75.07	
For>10 To 25, Deduct	-3.75	
For>25 To 50, Deduct	-9.38	
For>50 To 100, Deduct	-15.01	
For>100, Deduct	-22.52	
32 93 83 00-0049 EA 42" Balled And Burlapped Shrub Planting	79.35	
For>10 To 25, Deduct	-3.97	
For>25 To 50, Deduct	-9.92	
For>50 To 100, Deduct	-15.87	
For>100, Deduct	-23.81	
32 93 83 00-0050 EA 48" Balled And Burlapped Shrub Planting	85.78	
For>10 To 25, Deduct	-4.29	
For>25 To 50, Deduct	-10.72	
For>50 To 100, Deduct	-17.16	
For>100, Deduct	-25.73	
32 93 83 00-0051 EA 5' Balled And Burlapped Shrub Planting	128.68	
For>10 To 25, Deduct	-6.43	
For>25 To 50, Deduct	-16.09	
For>50 To 100, Deduct	-25.74	
For>100, Deduct	-38.60	
32 93 83 00-0052 EA 6' Balled And Burlapped Shrub Planting	182.30	
For>10 To 25, Deduct	-9.12	
For>25 To 50, Deduct	-22.79	
For>50 To 100, Deduct	-36.46	
For>100, Deduct	-54.69	
32 93 83 00-0053 EA 7' Balled And Burlapped Shrub Planting	242.35	
For>10 To 25, Deduct	-12.12	
For>25 To 50, Deduct	-30.29	
For>50 To 100, Deduct	-48.47	
For>100, Deduct	-72.71	
32 93 83 00-0054 EA 8' Balled And Burlapped Shrub Planting	274.52	
For>10 To 25, Deduct	-13.73	
For>25 To 50, Deduct	-34.32	
For>50 To 100, Deduct	-54.90	
For>100, Deduct	-82.36	
32 93 83 00-0055 EA 9' Balled And Burlapped Shrub Planting	295.97	
For>10 To 25, Deduct	-14.80	
For>25 To 50, Deduct	-37.00	
For>50 To 100, Deduct	-59.19	
For>100, Deduct	-88.79	
32 93 83 00-0056 EA 10' Balled And Burlapped Shrub Planting	321.70	
For>10 To 25, Deduct	-16.09	
For>25 To 50, Deduct	-40.21	
For>50 To 100, Deduct	-64.34	
For>100, Deduct	-96.51	

32 93 83 00-0057 Planting Groundcover, Vines, Perennials, Annuals And Bulbs (32 93 83)
See CSI section 32 91 13 16-0001 for mulch.



Exterior Improvements		32
Planting		32 90
Plants		32 93

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0058	EA	2-1/4" Diameter Potted Groundcover And Flower Planting		1.79	
		For >10 To 25, Deduct		-0.09	
		For >25 To 50, Deduct		-0.22	
		For >50 To 100, Deduct		-0.36	
		For >100, Deduct		-0.54	
32 93 83 00-0059	EA	3" Diameter Potted Groundcover And Flower Planting	.....	2.05	
		For >10 To 25, Deduct		-0.10	
		For >25 To 50, Deduct		-0.26	
		For >50 To 100, Deduct		-0.41	
		For >100, Deduct		-0.62	
32 93 83 00-0060	EA	4" Diameter Potted Groundcover And Flower Planting	.....	2.38	
		For >10 To 25, Deduct		-0.12	
		For >25 To 50, Deduct		-0.30	
		For >50 To 100, Deduct		-0.48	
		For >100, Deduct		-0.71	
32 93 83 00-0061	EA	5-1/2" Diameter Potted Groundcover And Flower Planting	.....	2.86	
		For >10 To 25, Deduct		-0.14	
		For >25 To 50, Deduct		-0.36	
		For >50 To 100, Deduct		-0.57	
		For >100, Deduct		-0.86	
32 93 83 00-0062	EA	6" Diameter Potted Groundcover And Flower Planting	.....	3.57	
		For >10 To 25, Deduct		-0.18	
		For >25 To 50, Deduct		-0.45	
		For >50 To 100, Deduct		-0.71	
		For >100, Deduct		-1.07	
32 93 83 00-0063	EA	8" Diameter Potted Groundcover And Flower Planting	.....	5.36	
		For >10 To 25, Deduct		-0.27	
		For >25 To 50, Deduct		-0.67	
		For >50 To 100, Deduct		-1.07	
		For >100, Deduct		-1.61	
32 93 83 00-0064	EA	1 Gallon Container Groundcover And Flower Planting	.....	17.15	
		For >10 To 25, Deduct		-0.86	
		For >25 To 50, Deduct		-2.14	
		For >50 To 100, Deduct		-3.43	
		For >100, Deduct		-5.15	
32 93 83 00-0065	EA	2 Gallon Container Groundcover And Flower Planting	.....	23.59	
		For >10 To 25, Deduct		-1.18	
		For >25 To 50, Deduct		-2.95	
		For >50 To 100, Deduct		-4.72	
		For >100, Deduct		-7.08	
32 93 83 00-0066	EA	3 Gallon Container Groundcover And Flower Planting	.....	30.03	
		For >10 To 25, Deduct		-1.50	
		For >25 To 50, Deduct		-3.75	
		For >50 To 100, Deduct		-6.01	
		For >100, Deduct		-9.01	
32 93 83 00-0067	EA	4 Gallon Container Groundcover And Flower Planting	.....	38.60	
		For >10 To 25, Deduct		-1.93	
		For >25 To 50, Deduct		-4.83	
		For >50 To 100, Deduct		-7.72	
		For >100, Deduct		-11.58	
32 93 83 00-0068	EA	5 Gallon Container Groundcover And Flower Planting	.....	47.18	
		For >10 To 25, Deduct		-2.36	
		For >25 To 50, Deduct		-5.90	
		For >50 To 100, Deduct		-9.44	
		For >100, Deduct		-14.15	
32 93 83 00-0069	EA	7 Gallon Container Groundcover And Flower Planting	.....	64.34	
		For >10 To 25, Deduct		-3.22	
		For >25 To 50, Deduct		-8.04	
		For >50 To 100, Deduct		-12.87	
		For >100, Deduct		-19.30	
32 93 83 00-0070	EA	Bulb Planting	.....	1.07	
		For >10 To 25, Deduct		-0.05	
		For >25 To 50, Deduct		-0.13	
		For >50 To 100, Deduct		-0.21	
		For >100, Deduct		-0.32	
32 93 83 00-0071	EA	Flats Of 24 Groundcover And Flower Planting	.....	30.03	
		For >10 To 25, Deduct		-1.50	
		For >25, Deduct		-3.75	
32 93 83 00-0072	EA	Flats Of 36 Groundcover And Flower Planting	.....	42.59	
		For >10 To 25, Deduct		-2.13	
		For >25, Deduct		-5.32	
32 93 83 00-0073	EA	Flats Of 48 Groundcover And Flower Planting	.....	56.70	
		For >10 To 25, Deduct		-2.84	
		For >25, Deduct		-7.09	
32 93 83 00-0074		Tree Pits (32 93 83)			
		Note: Costs given show the tree pit size accommodates the soil ball and the type of soil excavated includes excavation, bank run sand and gravel fill for drainage, imported mix planting soil, hand backfill, perforated drainage pipe for watering, and drainage fabric. Includes one layer of woven fabric to be applied before mulch is spread. Excludes additional soil conditioners or mulch.			
32 93 83 00-0075	EA	2' x 1-1/4' Deep Tree Pit	.....	144.60	
32 93 83 00-0076	EA	2' x 2-1/2' Deep Tree Pit	.....	216.85	
32 93 83 00-0077	EA	2-1/2' x 1-1/2' Deep Tree Pit	.....	277.36	
32 93 83 00-0078	EA	2-1/2' x 3' Deep Tree Pit	.....	415.96	
32 93 83 00-0079	EA	3' x 1-3/4' Deep Tree Pit	.....	433.19	

32 Exterior Improvements**32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0080 EA 3' x 3-1/2' Deep Tree Pit	647.09	
32 93 83 00-0081 EA 3-1/2' x 1-3/4' Deep Tree Pit	533.83	
32 93 83 00-0082 EA 3-1/2' x 3-1/2' Deep Tree Pit	799.87	
32 93 83 00-0083 EA 4' x 2' Deep Tree Pit	639.31	
32 93 83 00-0084 EA 4' x 4' Deep Tree Pit	958.53	
32 93 83 00-0085 EA 4-1/2' x 2' Deep Tree Pit	925.52	
32 93 83 00-0086 EA 4-1/2' x 4' Deep Tree Pit	1,390.44	
32 93 83 00-0087 EA 5' x 2-1/4' Deep Tree Pit	1,230.93	
32 93 83 00-0088 EA 5' x 4-1/2' Deep Tree Pit	1,836.21	
32 93 83 00-0089 EA 6' x 2-1/2' Deep Tree Pit	1,745.48	
32 93 83 00-0090 EA 6' x 5' Deep Tree Pit	2,615.17	
32 93 83 00-0091 EA 7' x 3' Deep Tree Pit	2,943.70	
32 93 83 00-0092 EA 7' x 6' Deep Tree Pit	4,434.10	
32 93 83 00-0093 EA 8' x 3-1/4' Deep Tree Pit	4,059.99	
32 93 83 00-0094 EA 8' x 6-1/2' Deep Tree Pit	6,087.96	

32 94 Planting Accessories (32 90)**32 94 13 Landscape Edging** (32 94)

Note: Including stakes.

32 94 13 00-0001 Landscape Edging (32 94 13)

Note: Includes stakes.

32 94 13 00-0002 LF 1/8" x 4", Mill Finish, Aluminum Alloy Landscape Edging	9.36	2.46
32 94 13 00-0003 LF 1/8" x 4", Black Paint, Aluminum Alloy Landscape Edging	10.27	2.46
32 94 13 00-0004 LF 1/8" x 4", Black Anodized, Aluminum Alloy Landscape Edging	10.34	2.46
32 94 13 00-0005 LF 3/16" x 4", Mill Finish, Aluminum Alloy Landscape Edging	11.93	2.55
32 94 13 00-0006 LF 3/16" x 4", Black Paint, Aluminum Alloy Landscape Edging	13.06	2.55
32 94 13 00-0007 LF 3/16" x 4", Black Anodized, Aluminum Alloy Landscape Edging	13.04	2.55
32 94 13 00-0008 LF 1/8" x 5-1/2", Mill Finish, Aluminum Alloy Landscape Edging	10.54	2.63
32 94 13 00-0009 LF 1/8" x 5-1/2", Black Paint, Aluminum Alloy Landscape Edging	11.80	2.63
32 94 13 00-0010 LF 1/8" x 5-1/2", Black Anodized, Aluminum Alloy Landscape Edging	11.93	2.63
32 94 13 00-0011 LF 3/16" x 5-1/2", Mill Finish, Aluminum Alloy Landscape Edging	13.48	2.71
32 94 13 00-0012 LF 3/16" x 5-1/2", Black Paint, Aluminum Alloy Landscape Edging	14.74	2.71
32 94 13 00-0013 LF 3/16" x 5-1/2", Black Anodized, Aluminum Alloy Landscape Edging	14.84	2.71
32 94 13 00-0014 LF 3/16" x 4" Powder Coated Steel Landscape Edging	11.82	2.55
32 94 13 00-0015 LF 1/4" x 5" Powder Coated Steel Landscape Edging	16.79	2.55

32 94 16 Landscape Timbers (32 94)

32 94 16 00-0001 LF 6" x 8" Railroad Ties	14.81	4.91
32 94 16 00-0002 LF 7" x 9" Railroad Ties	17.85	6.17
32 94 16 00-0003 LF 1" x 4" Redwood	5.15	1.74
32 94 16 00-0004 LF 2" x 4" Redwood Edging	7.08	2.60
32 94 16 00-0005 LF 4" x 6" Pressure Treated Hardwood	10.11	3.48
32 94 16 00-0006 LF 6" x 6" Pressure Treated Hardwood	13.18	4.34
32 94 16 00-0007 LF 6" x 8" Pressure Treated Hardwood	15.36	5.10
32 94 16 00-0008 LF 1" x 4" Pressure Treated Pine	4.01	1.74
32 94 16 00-0009 LF 2" x 4" Pressure Treated Pine	6.08	2.60
32 94 16 00-0010 LF 4" x 6" Pressure Treated Pine	9.61	3.36
32 94 16 00-0011 LF 6" x 6" Pressure Treated Pine	13.08	4.34
32 94 16 00-0012 LF 6" x 8" Pressure Treated Pine	15.99	5.10

32 94 43 Tree Grates (32 94)**32 94 43 00-0001 Tree Grates With Frames** (32 94 43)**32 94 43 00-0002 Round Cast Iron Tree Grates With Frames** (32 94 43 00-0001)

32 94 43 00-0003 EA 32" Diameter, 100 To 150 LB Cast Iron Tree Grate With Frame	1,025.30	65.69
For >3 To 9, Deduct	-67.04	
For >9, Deduct	-138.55	
32 94 43 00-0004 EA 36" Diameter, 125 To 175 LB Cast Iron Tree Grate With Frame	1,187.80	65.69
For >3 To 9, Deduct	-79.23	
For >9, Deduct	-163.75	
32 94 43 00-0005 EA 42" Diameter, 150 To 200 LB Cast Iron Tree Grate With Frame	1,434.76	87.59
For >3 To 9, Deduct	-94.47	
For >9, Deduct	-195.23	
32 94 43 00-0006 EA 48" Diameter, 200 To 250 LB Cast Iron Tree Grate With Frame	1,788.50	87.59
For >3 To 9, Deduct	-121.00	
For >9, Deduct	-250.06	
32 94 43 00-0007 EA 54" Diameter, 300 To 350 LB Cast Iron Tree Grate With Frame	2,293.58	109.49
For >3 To 9, Deduct	-155.60	
For >9, Deduct	-321.56	
32 94 43 00-0008 EA 60" Diameter, Up To 350 LB Cast Iron Tree Grate With Frame	2,404.28	131.38
For >3 To 9, Deduct	-160.61	
For >9, Deduct	-331.94	
32 94 43 00-0009 EA 60" Diameter, >350 LB Cast Iron Tree Grate With Frame	2,650.46	131.38
For >3 To 9, Deduct	-179.08	
For >9, Deduct	-370.10	



Exterior Improvements		32	32
Planting		32 90	
Planting Accessories		32 94	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 94 43 00-0010	EA	72" Diameter, Up To 550 LB Cast Iron Tree Grate With Frame.....	3,527.17	186.13	
		For >3 To 9, Deduct	-236.62		
		For >9, Deduct	-489.01		
32 94 43 00-0011	EA	72" Diameter, >500 To 550 LB Cast Iron Tree Grate With Frame	3,670.58	186.13	
		For >3 To 9, Deduct	-247.38		
		For >9, Deduct	-511.24		
32 94 43 00-0012	EA	72" Diameter, >600 To 650 LB Cast Iron Tree Grate With Frame	3,790.08	186.13	
		For >3 To 9, Deduct	-256.34		
		For >9, Deduct	-529.77		
32 94 43 00-0013	EA	72" Diameter, >650 To 700 LB Cast Iron Tree Grate With Frame	3,885.69	186.13	
		For >3 To 9, Deduct	-263.51		
		For >9, Deduct	-544.58		
32 94 43 00-0014	EA	72" Diameter, >700 LB Cast Iron Tree Grate With Frame	3,957.39	186.13	
		For >3 To 9, Deduct	-268.89		
		For >9, Deduct	-555.70		
32 94 43 00-0015	EA	93" Diameter, 950 To 1,000 LB Cast Iron Tree Grate With Frame	4,338.58	218.97	
		For >3 To 9, Deduct	-292.55		
		For >9, Deduct	-604.60		
32 94 43 00-0016 Square Cast Iron Tree Grates With Frames (32 94 43 00-0001)					
32 94 43 00-0017	EA	30" x 30", 75 To 125 LB Cast Iron Tree Grate With Frame.....	944.01	65.69	
		For >3 To 9, Deduct	-60.95		
		For >9, Deduct	-125.96		
32 94 43 00-0018	EA	36" x 36", 100 To 150 LB Cast Iron Tree Grate With Frame.....	1,147.17	65.69	
		For >3 To 9, Deduct	-76.18		
		For >9, Deduct	-157.45		
32 94 43 00-0019	EA	48" x 48", Up To 200 LB Cast Iron Tree Grate With Frame	1,700.83	109.49	
		For >3 To 9, Deduct	-111.14		
		For >9, Deduct	-229.69		
32 94 43 00-0020	EA	48" x 48", >200 To 250 LB Cast Iron Tree Grate With Frame.....	2,011.55	109.49	
		For >3 To 9, Deduct	-134.44		
		For >9, Deduct	-277.85		
32 94 43 00-0021	EA	48" x 48", >250 To 300 LB Cast Iron Tree Grate With Frame.....	2,298.36	109.49	
		For >3 To 9, Deduct	-155.95		
		For >9, Deduct	-322.31		
32 94 43 00-0022	EA	48" x 48", >300 To 350 LB Cast Iron Tree Grate With Frame.....	2,561.27	109.49	
		For >3 To 9, Deduct	-175.67		
		For >9, Deduct	-363.06		
32 94 43 00-0023	EA	48" x 48", >350 To 400 LB Cast Iron Tree Grate With Frame.....	2,800.28	109.49	
		For >3 To 9, Deduct	-193.60		
		For >9, Deduct	-400.10		
32 94 43 00-0024	EA	48" x 48", >400 LB Cast Iron Tree Grate With Frame.....	3,015.39	109.49	
		For >3 To 9, Deduct	-209.73		
		For >9, Deduct	-433.45		
32 94 43 00-0025	EA	60" x 60", Up To 400 LB Cast Iron Tree Grate With Frame	2,887.87	153.28	
		For >3 To 9, Deduct	-193.60		
		For >9, Deduct	-400.10		
32 94 43 00-0026	EA	60" x 60", >400 To 450 LB Cast Iron Tree Grate With Frame.....	3,102.98	153.28	
		For >3 To 9, Deduct	-209.73		
		For >9, Deduct	-433.45		
32 94 43 00-0027	EA	60" x 60", >450 To 500 LB Cast Iron Tree Grate With Frame.....	3,294.18	153.28	
		For >3 To 9, Deduct	-224.07		
		For >9, Deduct	-463.08		
32 94 43 00-0028	EA	60" x 60", >500 To 550 LB Cast Iron Tree Grate With Frame.....	3,461.49	153.28	
		For >3 To 9, Deduct	-236.62		
		For >9, Deduct	-489.01		
32 94 43 00-0029	EA	60" x 60", >550 To 600 LB Cast Iron Tree Grate With Frame.....	3,604.90	153.28	
		For >3 To 9, Deduct	-247.38		
		For >9, Deduct	-511.24		
32 94 43 00-0030	EA	60" x 60", >600 LB Cast Iron Tree Grate With Frame.....	3,724.40	153.28	
		For >3 To 9, Deduct	-256.34		
		For >9, Deduct	-529.77		
32 94 43 00-0031	EA	72" x 72", Up To 550 LB Cast Iron Tree Grate With Frame	3,527.17	186.13	
		For >3 To 9, Deduct	-236.62		
		For >9, Deduct	-489.01		
32 94 43 00-0032	EA	72" x 72", >550 To 600 LB Cast Iron Tree Grate With Frame.....	3,670.58	186.13	
		For >3 To 9, Deduct	-247.38		
		For >9, Deduct	-511.24		
32 94 43 00-0033	EA	72" x 72", >600 To 650 LB Cast Iron Tree Grate With Frame.....	3,790.08	186.13	
		For >3 To 9, Deduct	-256.34		
		For >9, Deduct	-529.77		
32 94 43 00-0034	EA	72" x 72", >650 To 700 LB Cast Iron Tree Grate With Frame.....	3,885.69	186.13	
		For >3 To 9, Deduct	-263.51		
		For >9, Deduct	-544.58		
32 94 43 00-0035	EA	72" x 72", >700 To 750 LB Cast Iron Tree Grate With Frame.....	3,957.39	186.13	
		For >3 To 9, Deduct	-268.89		
		For >9, Deduct	-555.70		
32 94 43 00-0036	EA	72" x 72", >750 To 800 LB Cast Iron Tree Grate With Frame.....	4,005.19	186.13	
		For >3 To 9, Deduct	-272.47		
		For >9, Deduct	-563.11		
32 94 43 00-0037	EA	72" x 72", >800 To 850 LB Cast Iron Tree Grate With Frame.....	4,029.09	186.13	
		For >3 To 9, Deduct	-274.26		
		For >9, Deduct	-566.81		

32 Exterior Improvements**32 90 Planting****32 94 Planting Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 94 43 00-0038 EA 72" x 72", >850 LB Cast Iron Tree Grate With Frame.....	4,052.99	186.13
For >3 To 9, Deduct	-276.06	
For >9, Deduct	-570.52	
32 94 43 00-0039 Rectangular Cast Iron Tree Grates With Frames (32 94 43 00-0001)		
32 94 43 00-0040 EA 36" x 48", 200 To 250 LB Cast Iron Tree Grate With Frame.....	1,788.50	87.59
For >3 To 9, Deduct	-121.00	
For >9, Deduct	-250.06	
32 94 43 00-0041 EA 36" x 60", 200 To 250 LB Cast Iron Tree Grate With Frame.....	1,824.35	87.59
For >3 To 9, Deduct	-123.69	
For >9, Deduct	-255.62	
32 94 43 00-0042 EA 36" x 72", 275 To 325 LB Cast Iron Tree Grate With Frame.....	2,229.04	109.49
For >3 To 9, Deduct	-150.76	
For >9, Deduct	-311.56	
32 94 43 00-0043 EA 48" x 72", Up To 350 LB Cast Iron Tree Grate With Frame.....	2,628.19	109.49
For >3 To 9, Deduct	-180.69	
For >9, Deduct	-373.43	
32 94 43 00-0044 EA 48" x 72", >350 LB Cast Iron Tree Grate With Frame.....	2,800.28	109.49
For >3 To 9, Deduct	-193.60	
For >9, Deduct	-400.10	
32 94 43 00-0045 EA 60" x 84", 700 To 750 LB Cast Iron Tree Grate With Frame.....	3,742.28	186.13
For >3 To 9, Deduct	-252.75	
For >9, Deduct	-522.36	
32 94 49 Plant and Tree Accessories (32 94)		
32 94 49 00-0001 Tree Guying (32 94 49)		
32 94 49 00-0002 Tree Guying, Stakes (32 94 49 00-0001)		
Note: Includes stakes, cross brace, double #12 gauge twisted wire and reinforced rubber hose tree wrap.		
32 94 49 00-0003 EA Tree Guying Up To 2" Caliper, 2 Stakes, Guy Wire And Wrap.....	25.79	
32 94 49 00-0004 EA Tree Guying 2" To 3" Caliper, 2 Stakes, Guy Wire And Wrap.....	44.26	
32 94 49 00-0005 EA Tree Guying 3" To 4" Caliper, 3 Stakes, Guy Wire And Wrap.....	76.18	
32 94 49 00-0006 Tree Guying, Anchors (32 94 49 00-0001)		
Note: Includes arrowhead anchor, cable, turnbuckles and wrap or reinforced rubber hose.		
32 94 49 00-0007 EA Tree Guying Up To 2" Caliper, 3" Anchors And Polypropylene Flat Rope.....	111.04	
32 94 49 00-0008 EA Tree Guying 3" To 6" Caliper, 4" Anchors And Polypropylene Flat Rope.....	150.12	
32 94 49 00-0009 EA Tree Guying 6" To 8" Caliper, 6" Anchors And Polypropylene Flat Rope.....	193.63	
32 94 49 00-0010 EA Tree Guying 8" And Up Caliper, 8" Anchors And Polypropylene Flat Rope.....	248.08	
32 94 49 00-0011 Tree Wrap (32 94 49)		
32 94 49 00-0012 EA Tree Wrap, Up To 1" Caliper Applied Ground Level To First Branches Of Tree.....	6.55	
32 94 49 00-0013 EA Tree Wrap, 1" To 2" Caliper Applied Ground Level To First Branches Of Tree.....	10.93	
32 94 49 00-0014 EA Tree Wrap, >2" To 4" Caliper Applied Ground Level To First Branches Of Tree.....	21.74	
32 94 49 00-0015 EA Tree Wrap, >4" To 6" Caliper Applied Ground Level To First Branches Of Tree.....	33.85	
32 94 49 00-0016 Tree Guards (32 94 49)		
32 94 49 00-0017 EA 3' Preformed Plastic Tree Guard.....	11.88	
32 94 49 00-0018 EA 2' Preformed Plastic Tree Guard.....	10.63	
32 94 49 00-0019 Stake Out Tree And Shrub Locations (32 94 49)		
Note: When no design available.		
32 94 49 00-0020 EA Stake Out Trees Or Shrubs.....	6.66	
32 94 49 00-0021 Root Barriers (32 94 49)		
32 94 49 00-0022 EA 12" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....	12.07	
32 94 49 00-0023 EA 18" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....	17.23	
32 94 49 00-0024 EA 24" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....	20.38	
32 94 49 00-0025 EA 36" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....	38.50	
32 94 49 00-0026 EA 48" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....	53.30	
32 96 Transplanting (32 90)		
See CSI section 32 94 49 00-0001 for guying.		
32 96 33 Shrub Transplanting (32 96)		
Note: Includes digging up, moving on site, digging new hole and replanting.		
32 96 33 00-0001 Moving Shrubs On Site, Relocate (32 96 33)		
Note: Includes digging up, moving on site, digging new hole and replanting. See CSI section 32 94 49 00-0001 for guying.		
32 96 33 00-0002 EA Up To 18" Root Ball, Move Shrubs On Site.....	73.29	
For >25 To 50, Deduct	-7.33	
For >50, Deduct	-10.99	



Exterior Improvements		32
Planting		32 90
Transplanting		32 96

32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 96 33 00-0003	EA		>18" To 24" Root Ball, Move Shrubs On Site	99.15	
			For >25 To 50, Deduct	-9.92	
			For >50, Deduct	-14.87	
32 96 33 00-0004	EA		>24" To 30" Root Ball, Move Shrubs On Site	168.12	
			For >25 To 50, Deduct	-16.81	
			For >50, Deduct	-25.22	
32 96 33 00-0005	EA		>30" To 36" Root Ball, Move Shrubs On Site	258.66	
			For >25 To 50, Deduct	-25.87	
			For >50, Deduct	-38.80	

32 96 43 Tree Transplanting (32 96)

Note: Includes digging up, moving on site, digging new hole and replanting.

32 96 43 00-0001 Moving Trees On Site, Relocate (32 96 43)

Note: Includes digging up, moving on site, digging new hole and replanting. Excludes crane where necessary for trees over 20' tall. See CSI section 01 22 23 00-0845 for crane lifting equipment, 32 94 49 00-0001 for guying.

32 96 43 00-0002	EA		Up To 24" Root Ball, Move Trees On Site	278.32	
			For >5 To 10, Deduct	-13.92	
			For >10 To 20, Deduct	-27.83	
			For >20, Deduct	-41.75	
32 96 43 00-0003	EA		>24" To 30" Root Ball, Move Trees On Site.....	381.69	
			For >5 To 10, Deduct	-19.08	
			For >10 To 20, Deduct	-38.17	
			For >20, Deduct	-57.25	
32 96 43 00-0004	EA		>30" To 36" Root Ball, Move Trees On Site.....	618.48	
			For >5 To 10, Deduct	-30.92	
			For >10 To 20, Deduct	-61.85	
			For >20, Deduct	-92.77	
32 96 43 00-0005	EA		>36" To 48" Root Ball, Move Trees On Site.....	1,027.62	
			For >5 To 10, Deduct	-51.38	
			For >10 To 20, Deduct	-102.76	
			For >20, Deduct	-154.14	
32 96 43 00-0006	EA		>48" To 60" Root Ball, Move Trees On Site.....	1,669.90	
			For >5 To 10, Deduct	-83.50	
			For >10 To 20, Deduct	-166.99	
			For >20, Deduct	-250.49	
32 96 43 00-0007	EA		>60" To 72" Root Ball, Move Trees On Site.....	2,154.70	
			For >5 To 10, Deduct	-107.74	
			For >10 To 20, Deduct	-215.47	
			For >20, Deduct	-323.21	
32 96 43 00-0008	EA		>72" To 84" Root Ball, Move Trees On Site.....	2,783.16	
			For >5 To 10, Deduct	-139.16	
			For >10 To 20, Deduct	-278.32	
			For >20, Deduct	-417.47	
32 96 43 00-0009	EA		>84" To 96" Root Ball, Move Trees On Site.....	3,339.79	
			For >5 To 10, Deduct	-166.99	
			For >10 To 20, Deduct	-333.98	
			For >20, Deduct	-500.97	
32 96 43 00-0010	EA		>96" To 120" Root Ball, Move Trees On Site.....	3,795.22	
			For >5 To 10, Deduct	-189.76	
			For >10 To 20, Deduct	-379.52	
			For >20, Deduct	-569.28	

END OF SECTION 32

32	32	Exterior Improvements	
	32 90	Planting	
	32 96	Transplanting	



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT	COST	UNIT COST

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Utilities		33	CS
Operation and Maintenance of Utilities		33 01	
Operation and Maintenance of Water Utilities		33 01 10	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 Utilities

Note: Buried plastic pipe and conduit includes detectable tracer wire

33 01 Operation and Maintenance of Utilities (33)

33 01 10 Operation and Maintenance of Water Utilities (33 01)

33 01 10 54 Cleaning of Water Utility Piping (33 01 10)

See CSI section 33 01 30 41-0012 for cleaning of water lines.

33 01 10 58 Disinfection of Water Utility Piping Systems (33 01 10)

33 01 10 58-0001 Water Main Disinfection/Sterilization (33 01 10 58)

Note: Gas chlorination. Continuous or plug method.

33 01 10 58-0002	EA	Setting Up And Removing Equipment For Water Main Disinfection/Sterilization, Gas Chlorination Method	986.94	
33 01 10 58-0003	EA	Re-Set Up/Move Equipment For Water Main Disinfection/Sterilization, Gas Chlorination Method	493.46	
33 01 10 58-0004	LF	Up To 4" Diameter Pipe Water Main Disinfection/Sterilization	0.37	
		For >250 To 500, Deduct	-0.02	
		For >500 To 1,000, Deduct	-0.04	
		For >1,000 To 2,000, Deduct	-0.06	
		For >2,000 To 5,000, Deduct	-0.07	
		For >5,000, Deduct	-0.09	
33 01 10 58-0005	LF	6" Diameter Pipe Water Main Disinfection/Sterilization	0.57	
		For >250 To 500, Deduct	-0.03	
		For >500 To 1,000, Deduct	-0.06	
		For >1,000 To 2,000, Deduct	-0.09	
		For >2,000 To 5,000, Deduct	-0.11	
		For >5,000, Deduct	-0.14	
33 01 10 58-0006	LF	8" Diameter Pipe Water Main Disinfection/Sterilization	0.74	
		For >250 To 500, Deduct	-0.04	
		For >500 To 1,000, Deduct	-0.07	
		For >1,000 To 2,000, Deduct	-0.11	
		For >2,000 To 5,000, Deduct	-0.15	
		For >5,000, Deduct	-0.19	
33 01 10 58-0007	LF	10" Diameter Pipe Water Main Disinfection/Sterilization	0.87	
		For >250 To 500, Deduct	-0.04	
		For >500 To 1,000, Deduct	-0.09	
		For >1,000 To 2,000, Deduct	-0.13	
		For >2,000 To 5,000, Deduct	-0.17	
		For >5,000, Deduct	-0.22	
33 01 10 58-0008	LF	12" Diameter Pipe Water Main Disinfection/Sterilization	1.13	
		For >250 To 500, Deduct	-0.06	
		For >500 To 1,000, Deduct	-0.11	
		For >1,000 To 2,000, Deduct	-0.17	
		For >2,000 To 5,000, Deduct	-0.23	
		For >5,000, Deduct	-0.28	
33 01 10 58-0009	LF	>12" To 16" Diameter Pipe Water Main Disinfection/Sterilization	1.29	
		For >250 To 500, Deduct	-0.06	
		For >500 To 1,000, Deduct	-0.13	
		For >1,000 To 2,000, Deduct	-0.19	
		For >2,000 To 5,000, Deduct	-0.26	
		For >5,000, Deduct	-0.32	
33 01 10 58-0010	LF	>16" To 24" Diameter Pipe Water Main Disinfection/Sterilization	1.48	
		For >250 To 500, Deduct	-0.07	
		For >500 To 1,000, Deduct	-0.15	
		For >1,000 To 2,000, Deduct	-0.22	
		For >2,000 To 5,000, Deduct	-0.30	
		For >5,000, Deduct	-0.37	
33 01 10 58-0011	LF	>24" To 30" Diameter Pipe Water Main Disinfection/Sterilization	1.75	
		For >250 To 500, Deduct	-0.09	
		For >500 To 1,000, Deduct	-0.18	
		For >1,000 To 2,000, Deduct	-0.26	
		For >2,000 To 5,000, Deduct	-0.35	
		For >5,000, Deduct	-0.44	
33 01 10 58-0012	LF	>30" To 42" Diameter Pipe Water Main Disinfection/Sterilization	2.25	
		For >250 To 500, Deduct	-0.11	
		For >500 To 1,000, Deduct	-0.23	
		For >1,000 To 2,000, Deduct	-0.34	
		For >2,000 To 5,000, Deduct	-0.45	
		For >5,000, Deduct	-0.56	
33 01 10 58-0013	LF	>42" To 60" Diameter Pipe Water Main Disinfection/Sterilization	3.29	
		For >250 To 500, Deduct	-0.16	
		For >500 To 1,000, Deduct	-0.33	
		For >1,000 To 2,000, Deduct	-0.49	
		For >2,000 To 5,000, Deduct	-0.66	
		For >5,000, Deduct	-0.82	
33 01 10 58-0014	LF	>60" Diameter Pipe Water Main Disinfection/Sterilization	4.56	
		For >250 To 500, Deduct	-0.23	
		For >500 To 1,000, Deduct	-0.46	
		For >1,000 To 2,000, Deduct	-0.68	
		For >2,000 To 5,000, Deduct	-0.91	
		For >5,000, Deduct	-1.14	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 10 Operation and Maintenance of Water Utilities**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 01 10 71 Relining Water Utilities Pipelines (33 01 10)

See CSI section 33 01 30 71-0000 for relining water pipelines.

33 01 10 71-0001 Relining Underground Water Pipelines (33 01 10 71)

Note: Excludes costs for CCTV inspection, pipe cleaning, pavement; temporary and permanent, emergency after hours response for homeowners backups.

33 01 10 71-0002 Relining Underground Water Pipelines Set-Up And Reinsertion (33 01 10 71-0001)

33 01 10 71-0003	EA	Initial Set Up And Final Equipment Removal For Relining Underground Water Pipelines	5,423.32
33 01 10 71-0004	EA	Move And Reset Up At Different Access/Location	2,169.33

33 01 10 71-0005 Lining Pipe With Cement (33 01 10 71-0001)

33 01 10 71-0006	LF	Up To 500', 4" Pipe, 1/8" Pipe Lining With Cement	73.50
		For 3/16" Thickness, Add	1.64
		For 1/4" Thickness, Add	3.28
33 01 10 71-0007	LF	>500' To 1,000', 4" Pipe, 1/8" Pipe Lining With Cement	65.58
		For 3/16" Thickness, Add	1.64
		For 1/4" Thickness, Add	3.28
33 01 10 71-0008	LF	>1,000' To 5,000', 4" Pipe, 1/8" Pipe Lining With Cement	54.95
		For 3/16" Thickness, Add	1.64
		For 1/4" Thickness, Add	3.28
33 01 10 71-0009	LF	>5,000', 4" Pipe, 1/8" Pipe Lining With Cement	41.60
		For 3/16" Thickness, Add	1.64
		For 1/4" Thickness, Add	3.28
33 01 10 71-0010	LF	Up To 500', 6" Pipe, 1/8" Pipe Lining With Cement	76.94
		For 3/16" Thickness, Add	2.45
		For 1/4" Thickness, Add	4.90
33 01 10 71-0011	LF	>500' To 1,000', 6" Pipe, 1/8" Pipe Lining With Cement	68.70
		For 3/16" Thickness, Add	2.45
		For 1/4" Thickness, Add	4.90
33 01 10 71-0012	LF	>1,000' To 5,000', 6" Pipe, 1/8" Pipe Lining With Cement	57.72
		For 3/16" Thickness, Add	2.45
		For 1/4" Thickness, Add	4.90
33 01 10 71-0013	LF	>5,000', 6" Pipe, 1/8" Pipe Lining With Cement	44.19
		For 3/16" Thickness, Add	2.45
		For 1/4" Thickness, Add	4.90
33 01 10 71-0014	LF	Up To 500', 8" Pipe, 1/8" Pipe Lining With Cement	80.26
		For 3/16" Thickness, Add	3.26
		For 1/4" Thickness, Add	6.52
33 01 10 71-0015	LF	>500' To 1,000', 8" Pipe, 1/8" Pipe Lining With Cement	71.84
		For 3/16" Thickness, Add	3.26
		For 1/4" Thickness, Add	6.52
33 01 10 71-0016	LF	>1,000' To 5,000', 8" Pipe, 1/8" Pipe Lining With Cement	60.49
		For 3/16" Thickness, Add	3.26
		For 1/4" Thickness, Add	6.52
33 01 10 71-0017	LF	>5,000', 8" Pipe, 1/8" Pipe Lining With Cement	46.79
		For 3/16" Thickness, Add	3.26
		For 1/4" Thickness, Add	6.52
33 01 10 71-0018	LF	Up To 500', 10" Pipe, 1/8" Pipe Lining With Cement	82.95
		For 3/16" Thickness, Add	4.09
		For 1/4" Thickness, Add	8.18
33 01 10 71-0019	LF	>500' To 1,000', 10" Pipe, 1/8" Pipe Lining With Cement	74.40
		For 3/16" Thickness, Add	4.09
		For 1/4" Thickness, Add	8.18
33 01 10 71-0020	LF	>1,000' To 5,000', 10" Pipe, 1/8" Pipe Lining With Cement	62.87
		For 3/16" Thickness, Add	4.09
		For 1/4" Thickness, Add	8.18
33 01 10 71-0021	LF	>5,000', 10" Pipe, 1/8" Pipe Lining With Cement	49.42
		For 3/16" Thickness, Add	4.09
		For 1/4" Thickness, Add	8.18
33 01 10 71-0022	LF	Up To 500', 12" Pipe, 1/8" Pipe Lining With Cement	89.96
		For 3/16" Thickness, Add	4.90
		For 1/4" Thickness, Add	9.80
33 01 10 71-0023	LF	>500' To 1,000', 12" Pipe, 1/8" Pipe Lining With Cement	80.88
		For 3/16" Thickness, Add	4.90
		For 1/4" Thickness, Add	9.80
33 01 10 71-0024	LF	>1,000' To 5,000', 12" Pipe, 1/8" Pipe Lining With Cement	68.62
		For 3/16" Thickness, Add	4.90
		For 1/4" Thickness, Add	9.80
33 01 10 71-0025	LF	>5,000', 12" Pipe, 1/8" Pipe Lining With Cement	54.06
		For 3/16" Thickness, Add	4.90
		For 1/4" Thickness, Add	9.80
33 01 10 71-0026	LF	Up To 500', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	98.95
		For 1/4" Thickness, Add	5.45
		For 5/16" Thickness, Add	10.90
33 01 10 71-0027	LF	>500' To 1,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	89.52
		For 1/4" Thickness, Add	5.45
		For 5/16" Thickness, Add	10.90
33 01 10 71-0028	LF	>1,000' To 5,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	76.74
		For 1/4" Thickness, Add	5.45
		For 5/16" Thickness, Add	10.90
33 01 10 71-0029	LF	>5,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement	62.80
		For 1/4" Thickness, Add	5.45
		For 5/16" Thickness, Add	10.90



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		Operation and Maintenance of Utilities	33 01	
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 10 71-0030	LF	Up To 500', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	104.62	
		For 1/4" Thickness, Add	6.53	
		For 5/16" Thickness, Add	13.07	
33 01 10 71-0031	LF	>500' To 1,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	94.91	
		For 1/4" Thickness, Add	6.53	
		For 5/16" Thickness, Add	13.07	
33 01 10 71-0032	LF	>1,000' To 5,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	81.70	
		For 1/4" Thickness, Add	6.53	
		For 5/16" Thickness, Add	13.07	
33 01 10 71-0033	LF	>5,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	68.48	
		For 1/4" Thickness, Add	6.53	
		For 5/16" Thickness, Add	13.07	
33 01 10 71-0034	LF	Up To 500', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	111.41	
		For 1/4" Thickness, Add	7.62	
		For 5/16" Thickness, Add	15.25	
33 01 10 71-0035	LF	>500' To 1,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	101.35	
		For 1/4" Thickness, Add	7.62	
		For 5/16" Thickness, Add	15.25	
33 01 10 71-0036	LF	>1,000' To 5,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	87.52	
		For 1/4" Thickness, Add	7.62	
		For 5/16" Thickness, Add	15.25	
33 01 10 71-0037	LF	>5,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	75.14	
		For 1/4" Thickness, Add	7.62	
		For 5/16" Thickness, Add	15.25	
33 01 10 71-0038	LF	Up To 500', 24" Pipe, 3/16" Pipe Lining With Cement	118.33	
		For 1/4" Thickness, Add	8.72	
		For 5/16" Thickness, Add	17.43	
33 01 10 71-0039	LF	>500' To 1,000', 24" Pipe, 3/16" Pipe Lining With Cement	107.85	
		For 1/4" Thickness, Add	8.72	
		For 5/16" Thickness, Add	17.43	
33 01 10 71-0040	LF	>1,000' To 5,000', 24" Pipe, 3/16" Pipe Lining With Cement	93.58	
		For 1/4" Thickness, Add	8.72	
		For 5/16" Thickness, Add	17.43	
33 01 10 71-0041	LF	>5,000', 24" Pipe, 3/16" Pipe Lining With Cement	82.06	
		For 1/4" Thickness, Add	8.72	
		For 5/16" Thickness, Add	17.43	
33 01 10 71-0042	LF	Up To 500', 30" Pipe, 3/16" Pipe Lining With Cement	128.36	
		For 1/4" Thickness, Add	10.89	
		For 5/16" Thickness, Add	21.78	
33 01 10 71-0043	LF	>500' To 1,000', 30" Pipe, 3/16" Pipe Lining With Cement	117.28	
		For 1/4" Thickness, Add	10.89	
		For 5/16" Thickness, Add	21.78	
33 01 10 71-0044	LF	>1,000' To 5,000', 30" Pipe, 3/16" Pipe Lining With Cement	102.16	
		For 1/4" Thickness, Add	10.89	
		For 5/16" Thickness, Add	21.78	
33 01 10 71-0045	LF	>5,000', 30" Pipe, 3/16" Pipe Lining With Cement	90.53	
		For 1/4" Thickness, Add	10.89	
		For 5/16" Thickness, Add	21.78	
33 01 10 71-0046	LF	Up To 500', 36" Pipe, 3/16" Pipe Lining With Cement	138.31	
		For 1/4" Thickness, Add	13.07	
		For 5/16" Thickness, Add	26.15	
33 01 10 71-0047	LF	500' To 1,000', 36" Pipe, 3/16" Pipe Lining With Cement	126.75	
		For 1/4" Thickness, Add	13.07	
		For 5/16" Thickness, Add	26.15	
33 01 10 71-0048	LF	>1,000' To 5,000', 36" Pipe, 3/16" Pipe Lining With Cement	110.77	
		For 1/4" Thickness, Add	13.07	
		For 5/16" Thickness, Add	26.15	
33 01 10 71-0049	LF	>5,000', 36" Pipe, 3/16" Pipe Lining With Cement	99.01	
		For 1/4" Thickness, Add	13.07	
		For 5/16" Thickness, Add	26.15	
33 01 10 71-0050	LF	Up To 500', 42" Pipe, 1/4" Pipe Lining With Cement	176.93	
		For 3/8" Thickness, Add	34.31	
		For 7/16" Thickness, Add	51.47	
33 01 10 71-0051	LF	>500' To 1,000', 42" Pipe, 1/4" Pipe Lining With Cement	164.32	
		For 3/8" Thickness, Add	34.31	
		For 7/16" Thickness, Add	51.47	
33 01 10 71-0052	LF	>1,000' To 5,000', 42" Pipe, 1/4" Pipe Lining With Cement	146.96	
		For 3/8" Thickness, Add	34.31	
		For 7/16" Thickness, Add	51.47	
33 01 10 71-0053	LF	>5,000', 42" Pipe, 1/4" Pipe Lining With Cement.....	134.84	
		For 3/8" Thickness, Add	34.31	
		For 7/16" Thickness, Add	51.47	
33 01 10 71-0054	LF	Up To 500', 48" Pipe, 1/4" Pipe Lining With Cement	195.81	
		For 3/8" Thickness, Add	39.21	
		For 7/16" Thickness, Add	58.81	
33 01 10 71-0055	LF	>500' To 1,000', 48" Pipe, 1/4" Pipe Lining With Cement	182.33	
		For 3/8" Thickness, Add	39.21	
		For 7/16" Thickness, Add	58.81	
33 01 10 71-0056	LF	>1,000' To 5,000', 48" Pipe, 1/4" Pipe Lining With Cement	163.67	
		For 3/8" Thickness, Add	39.21	
		For 7/16" Thickness, Add	58.81	
33 01 10 71-0057	LF	>5,000', 48" Pipe, 1/4" Pipe Lining With Cement.....	151.30	
		For 3/8" Thickness, Add	39.21	
		For 7/16" Thickness, Add	58.81	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 10 Operation and Maintenance of Water Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 10 71-0058 LF Up To 500', 54" Pipe, 1/4" Pipe Lining With Cement	207.79	
For 3/8" Thickness, Add	44.11	
For 7/16" Thickness, Add	66.16	
33 01 10 71-0059 LF >500' To 1,000', 54" Pipe, 1/4" Pipe Lining With Cement	194.03	
For 3/8" Thickness, Add	44.11	
For 7/16" Thickness, Add	66.16	
33 01 10 71-0060 LF >1,000' To 5,000', 54" Pipe, 1/4" Pipe Lining With Cement	174.93	
For 3/8" Thickness, Add	44.11	
For 7/16" Thickness, Add	66.16	
33 01 10 71-0061 LF >5,000', 54" Pipe, 1/4" Pipe Lining With Cement	163.04	
For 3/8" Thickness, Add	44.11	
For 7/16" Thickness, Add	66.16	
33 01 10 71-0062 LF Up To 500', 60" Pipe, 1/4" Pipe Lining With Cement	219.80	
For 3/8" Thickness, Add	49.02	
For 7/16" Thickness, Add	73.53	
33 01 10 71-0063 LF >500' To 1,000', 60" Pipe, 1/4" Pipe Lining With Cement	205.79	
For 3/8" Thickness, Add	49.02	
For 7/16" Thickness, Add	73.53	
33 01 10 71-0064 LF >1,000' To 5,000', 60" Pipe, 1/4" Pipe Lining With Cement	186.34	
For 3/8" Thickness, Add	49.02	
For 7/16" Thickness, Add	73.53	
33 01 10 71-0065 LF >5,000', 60" Pipe, 1/4" Pipe Lining With Cement	174.81	
For 3/8" Thickness, Add	49.02	
For 7/16" Thickness, Add	73.53	
33 01 10 71-0066 LF Up To 500', 66" Pipe, 1/4" Pipe Lining With Cement	232.15	
For 3/8" Thickness, Add	53.92	
For 7/16" Thickness, Add	80.88	
33 01 10 71-0067 LF >500' To 1,000', 66" Pipe, 1/4" Pipe Lining With Cement	217.84	
For 3/8" Thickness, Add	53.92	
For 7/16" Thickness, Add	80.88	
33 01 10 71-0068 LF >1,000' To 5,000', 66" Pipe, 1/4" Pipe Lining With Cement	198.07	
For 3/8" Thickness, Add	53.92	
For 7/16" Thickness, Add	80.88	
33 01 10 71-0069 LF >5,000', 66" Pipe, 1/4" Pipe Lining With Cement	187.40	
For 3/8" Thickness, Add	53.92	
For 7/16" Thickness, Add	80.88	
33 01 10 71-0070 LF Up To 500', 72" Pipe, 1/4" Pipe Lining With Cement	244.99	
For 3/8" Thickness, Add	58.82	
For 7/16" Thickness, Add	88.23	
33 01 10 71-0071 LF >500' To 1,000', 72" Pipe, 1/4" Pipe Lining With Cement	230.43	
For 3/8" Thickness, Add	58.82	
For 7/16" Thickness, Add	88.23	
33 01 10 71-0072 LF >1,000' To 5,000', 72" Pipe, 1/4" Pipe Lining With Cement	210.18	
For 3/8" Thickness, Add	58.82	
For 7/16" Thickness, Add	88.23	
33 01 10 71-0073 LF >5,000', 72" Pipe, 1/4" Pipe Lining With Cement	200.11	
For 3/8" Thickness, Add	58.82	
For 7/16" Thickness, Add	88.23	

33 01 30 Operation and Maintenance of Sewer Utilities (33 01)**33 01 30 11 Television Inspection Of Pipelines** (33 01 30)

Note: Rotating head color camera. Includes all log records and color video tape, DVD or CD.

33 01 30 11-0001 Remote Visual Inspection (RVI) Of Pipe Interior And Culverts (33 01 30 11)**33 01 30 11-0002 Video Camera Set-up** (33 01 30 11-0001)

33 01 30 11-0003 EA Initial Set Up For "Push Camera" Video Camera Inspection, 1" To 12" Diameter Pipe Or Culvert	926.93
Note: A "push camera" is a straight view camera at the end of a rigid push rod for 1"-12" diameter pipes for distances up to 300 feet.	
33 01 30 11-0004 EA Initial Set Up For "Crawler" Video Camera Inspection, 4" To 30" Diameter Pipe Or Culvert.....	1,853.84
Note: Crawlers are generally remotely operated vehicles (ROVs) for longer distances (over 300') and for larger diameters (4" and larger).	
33 01 30 11-0005 EA Initial Set Up For "Crawler" Video Camera Inspection, >30" Diameter Pipe Or Culvert	2,780.77
33 01 30 11-0006 EA Re-Set Up/Move For "Push Camera" Video Camera Inspection, 1" To 12" Diameter Pipe Or Culvert	463.46
33 01 30 11-0007 EA Re-Set Up/Move For "Crawler" Video Camera Inspection, 4" And Larger Diameter Pipe Or Culvert	926.93

33 01 30 11-0008 Video Camera Planning And Analysis Inspection (33 01 30 11-0001)

Note: For pipe interior and culverts.

33 01 30 11-0009 LF 4" To 6" Diameter Pipe Inspection, Planning/Analysis Phase	2.35
Note: CCTV inspection of pipe interior.	
For >500 To 1,000, Deduct	-0.24
For >1,000 To 5,000, Deduct	-0.59
For >5,000, Deduct	-0.82
33 01 30 11-0010 LF >6" To 12" Diameter Pipe Inspection, Planning/Analysis Phase	3.13
Note: CCTV inspection of pipe interior.	
For >500 To 1,000, Deduct	-0.31
For >1,000 To 5,000, Deduct	-0.78
For >5,000, Deduct	-1.10
33 01 30 11-0011 LF >12" To 21" Diameter Pipe Inspection, Planning/Analysis Phase	3.92
Note: CCTV inspection of pipe interior.	
For >500 To 1,000, Deduct	-0.39
For >1,000 To 5,000, Deduct	-0.98
For >5,000, Deduct	-1.37



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		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 11-0012	LF	>21" To 30" Diameter Pipe Inspection, Planning/Analysis Phase..... Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	5.22 -0.52 -1.31 -1.83	
33 01 30 11-0013	LF	>30" To 42" Diameter Pipe Inspection, Planning/Analysis Phase..... Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	7.34 -0.73 -1.84 -2.57	
33 01 30 11-0014	LF	>42" To 60" Diameter Pipe Inspection, Planning/Analysis Phase..... Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	9.79 -0.98 -2.45 -3.43	
33 01 30 11-0015	LF	>60" To 72" Diameter Pipe Inspection, Planning/Analysis Phase..... Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	13.82 -1.38 -3.46 -4.84	
33 01 30 11-0016	LF	>72" To 84" Diameter Pipe Inspection, Planning/Analysis Phase..... Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	19.59 -1.96 -4.90 -6.86	
33 01 30 11-0017		Video Camera Pre-Rehab For Pipe Interior And Culverts (33 01 30 11-0001)		
33 01 30 11-0018	LF	4" To 6" Diameter Pipe Inspection, Pre-Rehabilitation Phase Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	3.48 -0.35 -0.87 -1.22	
33 01 30 11-0019	LF	>6" To 12" Diameter Pipe Inspection, Pre-Rehabilitation Phase Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	4.63 -0.46 -1.16 -1.62	
33 01 30 11-0020	LF	>12" To 21" Diameter Pipe Inspection, Pre-Rehabilitation Phase Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	5.79 -0.58 -1.45 -2.03	
33 01 30 11-0021	LF	>21" To 30" Diameter Pipe Inspection, Pre-Rehabilitation Phase Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	7.72 -0.77 -1.93 -2.70	
33 01 30 11-0022	LF	>30" To 42" Diameter Pipe Inspection, Pre-Rehabilitation Phase Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	10.86 -1.09 -2.72 -3.80	
33 01 30 11-0023	LF	>42" To 60" Diameter Pipe Inspection, Pre-Rehabilitation Phase Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	14.48 -1.45 -3.62 -5.07	
33 01 30 11-0024	LF	>60" To 72" Diameter Pipe Inspection, Pre-Rehabilitation Phase Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	20.44 -2.04 -5.11 -7.15	
33 01 30 11-0025	LF	>72" To 84" Diameter Pipe Inspection, Pre-Rehabilitation Phase Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	28.97 -2.90 -7.24 -10.14	
33 01 30 11-0026		Video Camera Post-Rehab For Pipe Interior And Culverts (33 01 30 11-0001)		
33 01 30 11-0027	LF	4" To 6" Diameter Pipe Inspection, Post-Rehabilitation Phase..... Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	2.49 -0.25 -0.62 -0.87	
33 01 30 11-0028	LF	>6" To 12" Diameter Pipe Inspection, Post-Rehabilitation Phase..... Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	3.31 -0.33 -0.83 -1.16	
33 01 30 11-0029	LF	>12" To 21" Diameter Pipe Inspection, Post-Rehabilitation Phase..... Note: CCTV inspection of pipe interior. For >500 To 1,000, Deduct For >1,000 To 5,000, Deduct For >5,000, Deduct	4.14 -0.41 -1.04 -1.45	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 11-0030 LF >21" To 30" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	5.51	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.55	
For >1,000 To 5,000, Deduct	-1.38	
For >5,000, Deduct	-1.93	
33 01 30 11-0031 LF >30" To 42" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	7.76	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.78	
For >1,000 To 5,000, Deduct	-1.94	
For >5,000, Deduct	-2.72	
33 01 30 11-0032 LF >42" To 60" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	10.34	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.03	
For >1,000 To 5,000, Deduct	-2.59	
For >5,000, Deduct	-3.62	
33 01 30 11-0033 LF >60" To 72" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	14.61	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.46	
For >1,000 To 5,000, Deduct	-3.65	
For >5,000, Deduct	-5.11	
33 01 30 11-0034 LF >72" To 84" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	20.69	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-2.07	
For >1,000 To 5,000, Deduct	-5.17	
For >5,000, Deduct	-7.24	
33 01 30 23 Pipe Bursting (33 01 30)		
33 01 30 23-0001 Pipe Bursting (33 01 30 23)		
Note: The following section excludes costs for CCTV inspection, sewer cleaning, pavement both temporary and permanent, emergency after hours response for homeowners backups, bypass pumping, tree removal, service saddles, soil testing, and erosion control. See CSI section 31 13 13 00-0001 for tree removal.		
33 01 30 23-0002 Manhole Chipping (33 01 30 23-0001)		
Note: For use at manholes to open holes for pipe bursting head.		
33 01 30 23-0003 EA 6" To 15" Diameter, Manhole Chipping.....	402.96	
33 01 30 23-0004 EA >15" To 24" Diameter, Manhole Chipping.....	473.08	
33 01 30 23-0005 EA >24" To 36" Diameter, Manhole Chipping.....	591.32	
33 01 30 23-0006 Pipe Bursting (33 01 30 23-0001)		
Note: Includes equipment to burst or upsize existing clay, cast iron, concrete, PVC or ductile iron pipe; pipe bursting royalty fee. Excludes CCTV inspection, PE piping, excavation of pit, backfill, compaction, final grade, seed and sod restoration, recovery of bursting head disabled by obstruction, either undocumented or unrecognizable during CCTV inspection. See CSI section 33 01 30 23-0051 for PE piping.		
33 01 30 23-0007 Pipe Bursting Equipment Set-up (33 01 30 23-0006)		
33 01 30 23-0008 EA Initial Set-up And Final Equipment Removal For Up To 12" Underground Pipelines For Pipe Bursting Equipment	7,747.71	
33 01 30 23-0009 EA Initial Set-up And Final Equipment Removal For > 12" To 24" Underground Pipelines For Pipe Bursting Equipment	11,621.57	
33 01 30 23-0010 EA Initial Set-up And Final Equipment Removal For > 24" To 36" Underground Pipelines For Pipe Bursting Equipment	19,369.28	
33 01 30 23-0011 EA Move And Reset Up At Different Access/Location For Up To 12" Underground Pipelines For Pipe Bursting Equipment	2,905.39	
33 01 30 23-0012 EA Move And Reset Up At Different Access/Location For > 12" To 24" Underground Pipelines For Pipe Bursting Equipment	4,358.09	
33 01 30 23-0013 EA Move And Reset Up At Different Access/Location For > 2" To 36" Underground Pipelines For Pipe Bursting Equipment	7,263.48	
33 01 30 23-0014 EA Set Up/Move Pipe Bursting Equipment For Laterals.....	1,936.93	
33 01 30 23-0015 Pneumatic Head Pipe Bursting (33 01 30 23-0006)		
33 01 30 23-0016 LF 4" Diameter, Pneumatic Head Pipe Bursting	26.93	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.20	
For >150 To 200, Add	1.32	
For >100 To 150, Add	2.64	
For >75 To 100, Add	3.96	
For >50 To 75, Add	5.28	
For >25 To 50, Add	7.04	
For Up To 25, Add	9.69	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.20	
For Bursting Ductile Iron Pipe, Add	7.21	
33 01 30 23-0017 LF 6" Diameter, Pneumatic Head Pipe Bursting	31.15	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.73	
For >150 To 200, Add	1.64	
For >100 To 150, Add	3.27	
For >75 To 100, Add	4.91	
For >50 To 75, Add	6.55	
For >25 To 50, Add	8.73	
For Up To 25, Add	12.01	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.73	
For Bursting Ductile Iron Pipe, Add	8.60	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0018	LF	8" Diameter, Pneumatic Head Pipe Bursting	35.13	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.23	
		For >150 To 200, Add	1.94	
		For >100 To 150, Add	3.87	
		For >75 To 100, Add	5.81	
		For >50 To 75, Add	7.74	
		For >25 To 50, Add	10.32	
		For Up To 25, Add	14.20	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.23	
		For Bursting Ductile Iron Pipe, Add	9.92	
33 01 30 23-0019	LF	10" Diameter, Pneumatic Head Pipe Bursting	40.24	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.87	
		For >150 To 200, Add	2.32	
		For >100 To 150, Add	4.64	
		For >75 To 100, Add	6.96	
		For >50 To 75, Add	9.28	
		For >25 To 50, Add	12.37	
		For Up To 25, Add	17.01	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.87	
		For Bursting Ductile Iron Pipe, Add	11.60	
33 01 30 23-0020	LF	12" Diameter, Pneumatic Head Pipe Bursting	46.15	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	4.60	
		For >150 To 200, Add	2.76	
		For >100 To 150, Add	5.52	
		For >75 To 100, Add	8.29	
		For >50 To 75, Add	11.05	
		For >25 To 50, Add	14.73	
		For Up To 25, Add	20.26	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	4.60	
		For Bursting Ductile Iron Pipe, Add	13.55	
33 01 30 23-0021	LF	15" Diameter, Pneumatic Head Pipe Bursting	50.91	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	4.75	
		For >150 To 200, Add	2.85	
		For >100 To 150, Add	5.70	
		For >75 To 100, Add	8.55	
		For >50 To 75, Add	11.41	
		For >25 To 50, Add	15.21	
		For Up To 25, Add	20.91	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	4.75	
		For Bursting Ductile Iron Pipe, Add	14.48	
33 01 30 23-0022	LF	18" Diameter, Pneumatic Head Pipe Bursting	56.83	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	5.49	
		For >150 To 200, Add	3.30	
		For >100 To 150, Add	6.59	
		For >75 To 100, Add	9.89	
		For >50 To 75, Add	13.18	
		For >25 To 50, Add	17.58	
		For Up To 25, Add	24.17	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	5.49	
		For Bursting Ductile Iron Pipe, Add	16.43	
33 01 30 23-0023	LF	21"/22" Diameter, Pneumatic Head Pipe Bursting	71.61	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	6.53	
		For >150 To 200, Add	3.92	
		For >100 To 150, Add	7.84	
		For >75 To 100, Add	11.76	
		For >50 To 75, Add	15.68	
		For >25 To 50, Add	20.91	
		For Up To 25, Add	28.75	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	6.53	
		For Bursting Ductile Iron Pipe, Add	20.15	
33 01 30 23-0024	LF	24" Diameter, Pneumatic Head Pipe Bursting	88.41	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	8.63	
		For >150 To 200, Add	5.18	
		For >100 To 150, Add	10.36	
		For >75 To 100, Add	15.54	
		For >50 To 75, Add	20.72	
		For >25 To 50, Add	27.63	
		For Up To 25, Add	37.99	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	8.63	
		For Bursting Ductile Iron Pipe, Add	25.69	
33 01 30 23-0025	LF	30" Diameter, Pneumatic Head Pipe Bursting	97.42	
		For The Increase In Pipe Diameter By 1 Pipe Size, Add	8.96	
		For >150 To 200, Add	5.37	
		For >100 To 150, Add	10.75	
		For >75 To 100, Add	16.12	
		For >50 To 75, Add	21.50	
		For >25 To 50, Add	28.66	
		For Up To 25, Add	39.41	
		For Bursting Polyvinyl Chloride (PVC) Pipe, Add	8.96	
		For Bursting Ductile Iron Pipe, Add	27.51	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0026 LF 36" Diameter, Pneumatic Head Pipe Bursting	125.80	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	12.50	
For >150 To 200, Add	7.50	
For >100 To 150, Add	15.00	
For >75 To 100, Add	22.51	
For >50 To 75, Add	30.01	
For >25 To 50, Add	40.01	
For Up To 25, Add	55.02	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	12.50	
For Bursting Ductile Iron Pipe, Add	36.88	
33 01 30 23-0027 Static Head Pipe Bursting (33 01 30 23-0006)		
33 01 30 23-0028 LF 4" Diameter, Static Head Pipe Bursting	35.49	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.27	
For >150 To 200, Add	1.96	
For >100 To 150, Add	3.93	
For >75 To 100, Add	5.89	
For >50 To 75, Add	7.85	
For >25 To 50, Add	10.47	
For Up To 25, Add	14.39	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.27	
For Bursting Ductile Iron Pipe, Add	10.03	
33 01 30 23-0029 LF 6" Diameter, Static Head Pipe Bursting	39.75	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.80	
For >150 To 200, Add	2.28	
For >100 To 150, Add	4.56	
For >75 To 100, Add	6.85	
For >50 To 75, Add	9.13	
For >25 To 50, Add	12.17	
For Up To 25, Add	16.74	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.80	
For Bursting Ductile Iron Pipe, Add	11.44	
33 01 30 23-0030 LF 8" Diameter, Static Head Pipe Bursting	44.67	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	4.42	
For >150 To 200, Add	2.65	
For >100 To 150, Add	5.30	
For >75 To 100, Add	7.95	
For >50 To 75, Add	10.61	
For >25 To 50, Add	14.14	
For Up To 25, Add	19.44	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	4.42	
For Bursting Ductile Iron Pipe, Add	13.06	
33 01 30 23-0031 LF 10" Diameter, Static Head Pipe Bursting	51.07	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	5.22	
For >150 To 200, Add	3.13	
For >100 To 150, Add	6.26	
For >75 To 100, Add	9.39	
For >50 To 75, Add	12.53	
For >25 To 50, Add	16.70	
For Up To 25, Add	22.96	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	5.22	
For Bursting Ductile Iron Pipe, Add	15.18	
33 01 30 23-0032 LF 12" Diameter, Static Head Pipe Bursting	58.45	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	6.14	
For >150 To 200, Add	3.68	
For >100 To 150, Add	7.37	
For >75 To 100, Add	11.05	
For >50 To 75, Add	14.74	
For >25 To 50, Add	19.65	
For Up To 25, Add	27.02	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	6.14	
For Bursting Ductile Iron Pipe, Add	17.61	
33 01 30 23-0033 LF 15" Diameter, Static Head Pipe Bursting	66.83	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	6.74	
For >150 To 200, Add	4.05	
For >100 To 150, Add	8.09	
For >75 To 100, Add	12.14	
For >50 To 75, Add	16.18	
For >25 To 50, Add	21.58	
For Up To 25, Add	29.67	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	6.74	
For Bursting Ductile Iron Pipe, Add	19.73	
33 01 30 23-0034 LF 18" Diameter, Static Head Pipe Bursting	73.94	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	7.63	
For >150 To 200, Add	4.58	
For >100 To 150, Add	9.16	
For >75 To 100, Add	13.74	
For >50 To 75, Add	18.32	
For >25 To 50, Add	24.42	
For Up To 25, Add	33.58	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	7.63	
For Bursting Ductile Iron Pipe, Add	22.08	



Utilities		33	CS
Operation and Maintenance of Utilities		33 01	
Operation and Maintenance of Sewer Utilities		33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0035	LF		21"/22" Diameter, Static Head Pipe Bursting	92.44	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	9.14	
			For >150 To 200, Add	5.48	
			For >100 To 150, Add	10.97	
			For >75 To 100, Add	16.45	
			For >50 To 75, Add	21.93	
			For >25 To 50, Add	29.24	
			For Up To 25, Add	40.21	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	9.14	
			For Bursting Ductile Iron Pipe, Add	27.02	
33 01 30 23-0036	LF		24" Diameter, Static Head Pipe Bursting	119.48	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	12.52	
			For >150 To 200, Add	7.51	
			For >100 To 150, Add	15.02	
			For >75 To 100, Add	22.53	
			For >50 To 75, Add	30.04	
			For >25 To 50, Add	40.06	
			For Up To 25, Add	55.08	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	12.52	
			For Bursting Ductile Iron Pipe, Add	35.95	
33 01 30 23-0037	LF		30" Diameter, Static Head Pipe Bursting	145.42	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	14.96	
			For >150 To 200, Add	8.97	
			For >100 To 150, Add	17.95	
			For >75 To 100, Add	26.92	
			For >50 To 75, Add	35.90	
			For >25 To 50, Add	47.86	
			For Up To 25, Add	65.81	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	14.96	
			For Bursting Ductile Iron Pipe, Add	43.35	
33 01 30 23-0038	LF		36" Diameter, Static Head Pipe Bursting	175.76	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	18.75	
			For >150 To 200, Add	11.25	
			For >100 To 150, Add	22.50	
			For >75 To 100, Add	33.75	
			For >50 To 75, Add	45.00	
			For >25 To 50, Add	60.00	
			For Up To 25, Add	82.49	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	18.75	
			For Bursting Ductile Iron Pipe, Add	53.36	
33 01 30 23-0039			Hydraulic Head Pipe Bursting (33 01 30 23-0006)		
33 01 30 23-0040	LF		4" Diameter, Hydraulic Head Pipe Bursting	30.84	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.69	
			For >150 To 200, Add	1.61	
			For >100 To 150, Add	3.23	
			For >75 To 100, Add	4.84	
			For >50 To 75, Add	6.46	
			For >25 To 50, Add	8.61	
			For Up To 25, Add	11.84	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.69	
			For Bursting Ductile Iron Pipe, Add	8.50	
33 01 30 23-0041	LF		6" Diameter, Hydraulic Head Pipe Bursting	34.62	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.16	
			For >150 To 200, Add	1.90	
			For >100 To 150, Add	3.80	
			For >75 To 100, Add	5.69	
			For >50 To 75, Add	7.59	
			For >25 To 50, Add	10.12	
			For Up To 25, Add	13.92	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.16	
			For Bursting Ductile Iron Pipe, Add	9.75	
33 01 30 23-0042	LF		8" Diameter, Hydraulic Head Pipe Bursting	38.94	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.70	
			For >150 To 200, Add	2.22	
			For >100 To 150, Add	4.44	
			For >75 To 100, Add	6.66	
			For >50 To 75, Add	8.89	
			For >25 To 50, Add	11.85	
			For Up To 25, Add	16.29	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.70	
			For Bursting Ductile Iron Pipe, Add	11.17	
33 01 30 23-0043	LF		10" Diameter, Hydraulic Head Pipe Bursting	44.58	
			For The Increase In Pipe Diameter By 1 Pipe Size, Add	4.41	
			For >150 To 200, Add	2.64	
			For >100 To 150, Add	5.29	
			For >75 To 100, Add	7.93	
			For >50 To 75, Add	10.58	
			For >25 To 50, Add	14.10	
			For Up To 25, Add	19.39	
			For Bursting Polyvinyl Chloride (PVC) Pipe, Add	4.41	
			For Bursting Ductile Iron Pipe, Add	13.03	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0044 LF 12" Diameter, Hydraulic Head Pipe Bursting	51.07	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	5.22	
For >150 To 200, Add	3.13	
For >100 To 150, Add	6.26	
For >75 To 100, Add	9.39	
For >50 To 75, Add	12.53	
For >25 To 50, Add	16.70	
For Up To 25, Add	22.96	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	5.22	
For Bursting Ductile Iron Pipe, Add	15.18	
33 01 30 23-0045 LF 15" Diameter, Hydraulic Head Pipe Bursting	58.21	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	5.67	
For >150 To 200, Add	3.40	
For >100 To 150, Add	6.80	
For >75 To 100, Add	10.20	
For >50 To 75, Add	13.60	
For >25 To 50, Add	18.13	
For Up To 25, Add	24.93	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	5.67	
For Bursting Ductile Iron Pipe, Add	16.89	
33 01 30 23-0046 LF 18" Diameter, Hydraulic Head Pipe Bursting	65.19	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	6.54	
For >150 To 200, Add	3.92	
For >100 To 150, Add	7.85	
For >75 To 100, Add	11.77	
For >50 To 75, Add	15.69	
For >25 To 50, Add	20.92	
For Up To 25, Add	28.77	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	6.54	
For Bursting Ductile Iron Pipe, Add	19.19	
33 01 30 23-0047 LF 21"/22" Diameter, Hydraulic Head Pipe Bursting	81.98	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	7.83	
For >150 To 200, Add	4.70	
For >100 To 150, Add	9.40	
For >75 To 100, Add	14.09	
For >50 To 75, Add	18.79	
For >25 To 50, Add	25.06	
For Up To 25, Add	34.45	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	7.83	
For Bursting Ductile Iron Pipe, Add	23.57	
33 01 30 23-0048 LF 24" Diameter, Hydraulic Head Pipe Bursting	106.83	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	10.94	
For >150 To 200, Add	6.56	
For >100 To 150, Add	13.12	
For >75 To 100, Add	19.69	
For >50 To 75, Add	26.25	
For >25 To 50, Add	35.00	
For Up To 25, Add	48.12	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	10.94	
For Bursting Ductile Iron Pipe, Add	31.77	
33 01 30 23-0049 LF 30" Diameter, Hydraulic Head Pipe Bursting	131.24	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	13.18	
For >150 To 200, Add	7.91	
For >100 To 150, Add	15.82	
For >75 To 100, Add	23.73	
For >50 To 75, Add	31.64	
For >25 To 50, Add	42.19	
For Up To 25, Add	58.01	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	13.18	
For Bursting Ductile Iron Pipe, Add	38.67	
33 01 30 23-0050 LF 36" Diameter, Hydraulic Head Pipe Bursting	160.10	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	16.79	
For >150 To 200, Add	10.07	
For >100 To 150, Add	20.15	
For >75 To 100, Add	30.22	
For >50 To 75, Add	40.30	
For >25 To 50, Add	53.73	
For Up To 25, Add	73.88	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	16.79	
For Bursting Ductile Iron Pipe, Add	48.19	
33 01 30 23-0051 Pipe Lining (33 01 30 23-0001)		
33 01 30 23-0052 Pipe Fusion For High Density Polyethylene (HDPE) Pipe Lining (33 01 30 23-0051)		
Note: Per each joint.		
33 01 30 23-0053 EA 4" To 15", Pipe Fusion For High Density Polyethylene (HDPE) Pipe Lining	125.38	
33 01 30 23-0054 EA >15" To 24", Pipe Fusion For High Density Polyethylene (HDPE) Pipe Lining	143.85	
33 01 30 23-0055 EA >24" To 36", Pipe Fusion For High Density Polyethylene (HDPE) Pipe Lining	171.57	
33 01 30 23-0056 High Density Polyethylene (HDPE) Pipe Lining, DR 17 (33 01 30 23-0051)		
Note: Material to be installed behind bursting head. Excludes pipe joint fusion. See CSI section 33 01 30 23-0052 for pipe joint fusion.		



		Utilities	33	
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0057	LF	4" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	5.05	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-0.63	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	1.70	
		For White Interior Pipe, Add	1.15	
		For Gray Interior Pipe, Add	0.87	
33 01 30 23-0058	LF	5" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	6.90	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-0.95	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	2.59	
		For White Interior Pipe, Add	1.75	
		For Gray Interior Pipe, Add	1.32	
33 01 30 23-0059	LF	6" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	9.19	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-1.36	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	3.69	
		For White Interior Pipe, Add	2.49	
		For Gray Interior Pipe, Add	1.89	
33 01 30 23-0060	LF	7.125" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	10.41	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-1.57	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	4.26	
		For White Interior Pipe, Add	2.87	
		For Gray Interior Pipe, Add	2.18	
33 01 30 23-0061	LF	8" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	14.47	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-2.29	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	6.22	
		For White Interior Pipe, Add	4.20	
		For Gray Interior Pipe, Add	3.18	
33 01 30 23-0062	LF	10" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	21.58	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-3.56	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	9.68	
		For White Interior Pipe, Add	6.53	
		For Gray Interior Pipe, Add	4.95	
33 01 30 23-0063	LF	12" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	29.67	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-5.01	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	13.61	
		For White Interior Pipe, Add	9.19	
		For Gray Interior Pipe, Add	6.96	
33 01 30 23-0064	LF	13.375" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	32.52	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-5.52	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	14.98	
		For White Interior Pipe, Add	10.11	
		For Gray Interior Pipe, Add	7.66	
33 01 30 23-0065	LF	14" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	35.52	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-6.04	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	16.42	
		For White Interior Pipe, Add	11.08	
		For Gray Interior Pipe, Add	8.40	
33 01 30 23-0066	LF	16" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	45.91	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-7.89	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	21.44	
		For White Interior Pipe, Add	14.47	
		For Gray Interior Pipe, Add	10.96	
33 01 30 23-0067	LF	18" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	57.73	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-10.00	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	27.15	
		For White Interior Pipe, Add	18.32	
		For Gray Interior Pipe, Add	13.88	
33 01 30 23-0068	LF	20" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	70.90	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-12.34	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	33.52	
		For White Interior Pipe, Add	22.62	
		For Gray Interior Pipe, Add	17.14	
33 01 30 23-0069	LF	22" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	85.47	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-14.93	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	40.55	
		For White Interior Pipe, Add	27.37	
		For Gray Interior Pipe, Add	20.73	
33 01 30 23-0070	LF	24" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	101.47	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-17.77	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	48.27	
		For White Interior Pipe, Add	32.58	
		For Gray Interior Pipe, Add	24.68	
33 01 30 23-0071	LF	26" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	118.78	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-20.84	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	56.62	
		For White Interior Pipe, Add	38.21	
		For Gray Interior Pipe, Add	28.95	
33 01 30 23-0072	LF	28" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	137.62	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-24.18	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	65.68	
		For White Interior Pipe, Add	44.33	
		For Gray Interior Pipe, Add	33.58	
33 01 30 23-0073	LF	30" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	157.87	
		For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-27.76	
		For DR 11 Polyethylene Pipe, 160 PSI, Add	75.40	
		For White Interior Pipe, Add	50.89	
		For Gray Interior Pipe, Add	38.55	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0074 LF 32" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	179.52	
For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-31.57	
For DR 11 Polyethylene Pipe, 160 PSI, Add	85.77	
For White Interior Pipe, Add	57.88	
For Gray Interior Pipe, Add	43.85	
33 01 30 23-0075 LF 34" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	221.15	
For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-38.96	
For DR 11 Polyethylene Pipe, 160 PSI, Add	105.83	
For White Interior Pipe, Add	71.42	
For Gray Interior Pipe, Add	54.11	
33 01 30 23-0076 LF 36" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	227.52	
For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-39.96	
For DR 11 Polyethylene Pipe, 160 PSI, Add	108.57	
For White Interior Pipe, Add	73.27	
For Gray Interior Pipe, Add	55.51	
33 01 30 23-0077 Re-Connection Of Non-Renewed Laterals (33 01 30 23-0001)		
Note: Excludes earthwork excavation and backfill		
33 01 30 23-0078 Re-Connection Of Laterals; Insert-A-Tee (33 01 30 23-0077)		
Note: Includes cutting hole in pipe and excavation vacuum truck for exterior pipe lateral reconnection. Excludes asphalt removal, asphalt replacement pavement both temporary and permanent, hauling, and back-fill material. See CSI section 01 74 19 00-0029 for hauling, 31 05 16 00-0001 for back-fill material.		
33 01 30 23-0079 EA Re-Connection Of Non-Renewed Lateral, 6 To 8" Main With 4" Inserta-Tee.....	1,279.84	
For No Excavation, Deduct	-826.50	
33 01 30 23-0080 EA Re-Connection Of Non-Renewed Lateral, 8" Main With 6" Inserta-Tee.....	1,436.44	
For No Excavation, Deduct	-929.82	
33 01 30 23-0081 EA Re-Connection Of Non-Renewed Lateral, 10" To 18" Main With 4" Inserta-Tee.....	1,516.24	
For No Excavation, Deduct	-981.48	
33 01 30 23-0082 EA Re-Connection Of Non-Renewed Lateral, 10" To 18" Main With 6" Inserta-Tee.....	1,596.04	
For No Excavation, Deduct	-1,033.13	
33 01 30 23-0083 EA Re-Connection Of Non-Renewed Lateral, 10" To 18" Main With 8" Inserta-Tee.....	1,732.91	
For No Excavation, Deduct	-1,084.79	
33 01 30 23-0084 EA Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 4" Inserta-Tee.....	1,617.06	
For No Excavation, Deduct	-1,033.13	
33 01 30 23-0085 EA Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 6" Inserta-Tee.....	1,699.88	
For No Excavation, Deduct	-1,084.79	
33 01 30 23-0086 EA Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 8" Inserta-Tee.....	1,824.72	
For No Excavation, Deduct	-1,136.44	
33 01 30 23-0087 EA Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 10" Inserta-Tee.....	2,153.81	
For No Excavation, Deduct	-1,188.10	
33 01 30 23-0088 EA Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 12" Inserta-Tee.....	2,269.66	
For No Excavation, Deduct	-1,239.76	
33 01 30 23-0089 EA Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 15" Inserta-Tee.....	2,781.96	
For No Excavation, Deduct	-1,291.41	
33 01 30 23-0090 Re-Connection Of Laterals; Saddle Style (33 01 30 23-0077)		
Note: Includes excavation vacuum truck for exterior pipe lateral reconnection, fusion to high density polyethylene (HDPE) pipe for lateral. Excludes asphalt removal, asphalt replacement pavement both temporary and permanent, hauling and back-fill material. See CSI section 01 74 19 00-0029 for hauling, 31 05 16 00-0001 for back-fill material.		
33 01 30 23-0091 EA Re-Connection Of Non-Renewed Lateral, 6" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	2,768.35	
For No Excavation, Deduct	-922.44	
For Strap-On Saddle Type Instead Of Fusion Weld	-230.45	
33 01 30 23-0092 EA Re-Connection Of Non-Renewed Lateral, 8" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	3,052.93	
For No Excavation, Deduct	-959.34	
For Strap-On Saddle Type Instead Of Fusion Weld	-213.60	
33 01 30 23-0093 EA Re-Connection Of Non-Renewed Lateral, 10" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	4,235.84	
For No Excavation, Deduct	-996.24	
For Strap-On Saddle Type Instead Of Fusion Weld	-61.99	
33 01 30 23-0094 EA Re-Connection Of Non-Renewed Lateral, 12" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	4,457.22	
For No Excavation, Deduct	-1,106.93	
For Strap-On Saddle Type Instead Of Fusion Weld	-106.26	
33 01 30 23-0095 EA Re-Connection Of Non-Renewed Lateral, 14" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	7,843.05	
For No Excavation, Deduct	-1,180.72	
For Strap-On Saddle Type Instead Of Fusion Weld	349.95	
33 01 30 23-0096 EA Re-Connection Of Non-Renewed Lateral, 16" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	8,500.84	
For No Excavation, Deduct	-1,309.86	
For Strap-On Saddle Type Instead Of Fusion Weld	358.22	
33 01 30 23-0097 EA Re-Connection Of Non-Renewed Lateral, 18" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	11,418.38	
For No Excavation, Deduct	-1,439.01	
For Strap-On Saddle Type Instead Of Fusion Weld	705.45	
33 01 30 23-0098 EA Re-Connection Of Non-Renewed Lateral, 20" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	10,887.33	
For No Excavation, Deduct	-1,623.49	
For Strap-On Saddle Type Instead Of Fusion Weld	496.66	
33 01 30 23-0099 EA Re-Connection Of Non-Renewed Lateral, 24" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	13,222.82	
For No Excavation, Deduct	-1,918.67	
For Strap-On Saddle Type Instead Of Fusion Weld	640.35	

33 01 30 41 Cleaning of Sewers (33 01 30)**33 01 30 41-0001 Pipe Line Cleaning And Flushing** (33 01 30 41)

Note: Includes flushing. Owner provided water.



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR		TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION		UNIT COST		UNIT COST
33 01 30 41-0002	Pipe Line Cleaning (33 01 30 41-0001)			
Note: Includes removal of all debris/waste. Excludes disposal.				
33 01 30 41-0003	Hydro Jet Set-up And Reinsertion (33 01 30 41-0002)			
Note: Includes mobilization delivery, set-up, clean-up after use and return.				
33 01 30 41-0004	EA Initial Set Up And Final Equipment Removal For Up To 8" Jet Cleaning		1,289.25	
33 01 30 41-0005	EA Initial Set Up And Final Equipment Removal For >8" To 12" Jet Cleaning		1,933.87	
33 01 30 41-0006	EA Initial Set Up And Final Equipment Removal For >12" To 30" Jet Cleaning		2,578.50	
33 01 30 41-0007	EA Initial Set Up And Final Equipment Removal For >30" Jet Cleaning.....		3,437.98	
33 01 30 41-0008	EA Move And Reset Up At Different Access/Location For Up To 8" Jet Cleaning.....		322.31	
33 01 30 41-0009	EA Move And Reset Up At Different Access/Location For >8" To 12" Jet Cleaning.....		483.47	
33 01 30 41-0010	EA Move And Reset Up At Different Access/Location For >12" To 30" Jet Cleaning.....		644.62	
33 01 30 41-0011	EA Move And Reset Up At Different Access/Location For >30" Jet Cleaning		805.78	
33 01 30 41-0012	Hydro Jet Cleaning Of Sewer And Water Pipelines (33 01 30 41-0002)			
33 01 30 41-0013	LF Up To 4" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....		3.47	
	For >250 To 500, Deduct		-0.17	
	For >500 To 1,000, Deduct		-0.35	
	For >1,000 To 2,000, Deduct		-0.52	
	For >2,000 To 5,000, Deduct		-0.69	
	For >5,000, Deduct		-0.87	
	For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add		2.60	
33 01 30 41-0014	LF 6" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes		3.98	
	For >250 To 500, Deduct		-0.20	
	For >500 To 1,000, Deduct		-0.40	
	For >1,000 To 2,000, Deduct		-0.60	
	For >2,000 To 5,000, Deduct		-0.80	
	For >5,000, Deduct		-1.00	
	For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add		2.99	
33 01 30 41-0015	LF 8" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes		4.67	
	For >250 To 500, Deduct		-0.23	
	For >500 To 1,000, Deduct		-0.47	
	For >1,000 To 2,000, Deduct		-0.70	
	For >2,000 To 5,000, Deduct		-0.93	
	For >5,000, Deduct		-1.17	
	For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add		3.50	
33 01 30 41-0016	LF 10" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes		5.78	
	For >250 To 500, Deduct		-0.29	
	For >500 To 1,000, Deduct		-0.58	
	For >1,000 To 2,000, Deduct		-0.87	
	For >2,000 To 5,000, Deduct		-1.16	
	For >5,000, Deduct		-1.45	
	For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add		4.34	
33 01 30 41-0017	LF 12" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes		6.55	
	For >250 To 500, Deduct		-0.33	
	For >500 To 1,000, Deduct		-0.66	
	For >1,000 To 2,000, Deduct		-0.98	
	For >2,000 To 5,000, Deduct		-1.31	
	For >5,000, Deduct		-1.64	
	For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add		4.91	
33 01 30 41-0018	LF >12" To 16" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....		7.56	
	For >250 To 500, Deduct		-0.38	
	For >500 To 1,000, Deduct		-0.76	
	For >1,000 To 2,000, Deduct		-1.13	
	For >2,000 To 5,000, Deduct		-1.51	
	For >5,000, Deduct		-1.89	
	For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add		5.67	
33 01 30 41-0019	LF >16" To 24" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....		9.10	
	For >250 To 500, Deduct		-0.46	
	For >500 To 1,000, Deduct		-0.91	
	For >1,000 To 2,000, Deduct		-1.37	
	For >2,000 To 5,000, Deduct		-1.82	
	For >5,000, Deduct		-2.28	
	For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add		6.83	
33 01 30 41-0020	LF >24" To 30" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....		10.33	
	For >250 To 500, Deduct		-0.52	
	For >500 To 1,000, Deduct		-1.03	
	For >1,000 To 2,000, Deduct		-1.55	
	For >2,000 To 5,000, Deduct		-2.07	
	For >5,000, Deduct		-2.58	
	For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add		7.75	
33 01 30 41-0021	LF >30" To 42" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....		12.21	
	For >250 To 500, Deduct		-0.61	
	For >500 To 1,000, Deduct		-1.22	
	For >1,000 To 2,000, Deduct		-1.83	
	For >2,000 To 5,000, Deduct		-2.44	
	For >5,000, Deduct		-3.05	
	For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add		9.16	
33 01 30 41-0022	LF >42" To 60" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes.....		15.35	
	For >250 To 500, Deduct		-0.77	
	For >500 To 1,000, Deduct		-1.54	
	For >1,000 To 2,000, Deduct		-2.30	
	For >2,000 To 5,000, Deduct		-3.07	
	For >5,000, Deduct		-3.84	
	For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add		11.51	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0023 LF >60" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes	17.90	
For >250 To 500, Deduct	-0.90	
For >500 To 1,000, Deduct	-1.79	
For >1,000 To 2,000, Deduct	-2.69	
For >2,000 To 5,000, Deduct	-3.58	
For >5,000, Deduct	-4.48	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	13.43	
33 01 30 41-0024 Flushing Of Storm Water Pipelines (33 01 30 41-0002)		
Note: To remove silt and small debris from storm drainage pipes. Excludes disposal.		
33 01 30 41-0025 LF 12" To 16" Diameter Pipe Line Flushing	1.39	
For >250 To 500, Deduct	-0.07	
For >500 To 1,000, Deduct	-0.14	
For >1,000 To 2,000, Deduct	-0.21	
For >2,000 To 5,000, Deduct	-0.28	
For >5,000, Deduct	-0.35	
33 01 30 41-0026 LF >16" To 24" Diameter Pipe Line Flushing	1.59	
For >250 To 500, Deduct	-0.08	
For >500 To 1,000, Deduct	-0.16	
For >1,000 To 2,000, Deduct	-0.24	
For >2,000 To 5,000, Deduct	-0.32	
For >5,000, Deduct	-0.40	
33 01 30 41-0027 LF >24" To 30" Diameter Pipe Line Flushing	1.87	
For >250 To 500, Deduct	-0.09	
For >500 To 1,000, Deduct	-0.19	
For >1,000 To 2,000, Deduct	-0.28	
For >2,000 To 5,000, Deduct	-0.37	
For >5,000, Deduct	-0.47	
33 01 30 41-0028 LF >30" To 42" Diameter Pipe Line Flushing	2.15	
For >250 To 500, Deduct	-0.11	
For >500 To 1,000, Deduct	-0.22	
For >1,000 To 2,000, Deduct	-0.32	
For >2,000 To 5,000, Deduct	-0.43	
For >5,000, Deduct	-0.54	
33 01 30 41-0029 LF >42" To 60" Diameter Pipe Line Flushing	2.86	
For >250 To 500, Deduct	-0.14	
For >500 To 1,000, Deduct	-0.29	
For >1,000 To 2,000, Deduct	-0.43	
For >2,000 To 5,000, Deduct	-0.57	
For >5,000, Deduct	-0.72	
33 01 30 41-0030 Hydro Jet Cleaning Of Culverts (33 01 30 41-0002)		
33 01 30 41-0031 LF Jet Cleaning Of Culvert, 0-250 LF	16.03	
For >250 To 500, Deduct	-0.80	
For >500 To 1,000, Deduct	-1.60	
For >1,000 To 2,000, Deduct	-2.40	
For >2,000 To 5,000, Deduct	-3.21	
For >5,000, Deduct	-4.01	
33 01 30 41-0032 Pipe Line Cleaning, Mechanical Method (33 01 30 41-0001)		
Note: Power winching buckets, scrapers, scooters, porcupines, brushes and other debris removing equipment. Includes removal of all debris/waste. Excludes disposal.		
33 01 30 41-0033 EA Initial Set Up And Final Equipment Removal For Mechanical Cleaning	1,184.32	
33 01 30 41-0034 EA Move And Reset Up At Different Access/Location	394.78	
33 01 30 41-0035 LF Up To 4" Diameter Pipe Line Cleaning, Mechanical Method	6.87	
For >250 To 500, Deduct	-0.33	
For >500 To 1,000, Deduct	-0.66	
For >1,000 To 2,000, Deduct	-0.99	
For >2,000 To 5,000, Deduct	-1.32	
For >5,000, Deduct	-1.65	
33 01 30 41-0036 LF 6" Diameter Pipe Line Cleaning, Mechanical Method	9.04	
For >250 To 500, Deduct	-0.42	
For >500 To 1,000, Deduct	-0.85	
For >1,000 To 2,000, Deduct	-1.27	
For >2,000 To 5,000, Deduct	-1.69	
For >5,000, Deduct	-2.12	
33 01 30 41-0037 LF 8" Diameter Pipe Line Cleaning, Mechanical Method	10.59	
For >250 To 500, Deduct	-0.49	
For >500 To 1,000, Deduct	-0.99	
For >1,000 To 2,000, Deduct	-1.48	
For >2,000 To 5,000, Deduct	-1.97	
For >5,000, Deduct	-2.47	
33 01 30 41-0038 LF 10" Diameter Pipe Line Cleaning, Mechanical Method	12.26	
For >250 To 500, Deduct	-0.57	
For >500 To 1,000, Deduct	-1.14	
For >1,000 To 2,000, Deduct	-1.71	
For >2,000 To 5,000, Deduct	-2.28	
For >5,000, Deduct	-2.85	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0039	LF		12" Diameter Pipe Line Cleaning, Mechanical Method	13.35	
			For >250 To 500, Deduct	-0.62	
			For >500 To 1,000, Deduct	-1.23	
			For >1,000 To 2,000, Deduct	-1.85	
			For >2,000 To 5,000, Deduct	-2.47	
			For >5,000, Deduct	-3.09	
33 01 30 41-0040	LF		>12" To 16" Diameter Pipe Line Cleaning, Mechanical Method	15.40	
			For >250 To 500, Deduct	-0.71	
			For >500 To 1,000, Deduct	-1.41	
			For >1,000 To 2,000, Deduct	-2.12	
			For >2,000 To 5,000, Deduct	-2.82	
			For >5,000, Deduct	-3.53	
33 01 30 41-0041	LF		>16" To 24" Diameter Pipe Line Cleaning, Mechanical Method	19.44	
			For >250 To 500, Deduct	-0.87	
			For >500 To 1,000, Deduct	-1.74	
			For >1,000 To 2,000, Deduct	-2.61	
			For >2,000 To 5,000, Deduct	-3.48	
			For >5,000, Deduct	-4.35	
33 01 30 41-0042	LF		>24" To 30" Diameter Pipe Line Cleaning, Mechanical Method	22.31	
			For >250 To 500, Deduct	-0.97	
			For >500 To 1,000, Deduct	-1.94	
			For >1,000 To 2,000, Deduct	-2.91	
			For >2,000 To 5,000, Deduct	-3.88	
			For >5,000, Deduct	-4.85	
33 01 30 41-0043	LF		>30" To 42" Diameter Pipe Line Cleaning, Mechanical Method	25.97	
			For >250 To 500, Deduct	-1.12	
			For >500 To 1,000, Deduct	-2.24	
			For >1,000 To 2,000, Deduct	-3.35	
			For >2,000 To 5,000, Deduct	-4.47	
			For >5,000, Deduct	-5.59	
33 01 30 41-0044	LF		>42 To 60" Diameter Pipe Line Cleaning, Mechanical Method	33.95	
			For >250 To 500, Deduct	-1.48	
			For >500 To 1,000, Deduct	-2.96	
			For >1,000 To 2,000, Deduct	-4.44	
			For >2,000 To 5,000, Deduct	-5.92	
			For >5,000, Deduct	-7.40	
33 01 30 41-0045	LF		>60" Diameter Pipe Line Cleaning, Mechanical Method	38.69	
			For >250 To 500, Deduct	-1.65	
			For >500 To 1,000, Deduct	-3.29	
			For >1,000 To 2,000, Deduct	-4.94	
			For >2,000 To 5,000, Deduct	-6.58	
			For >5,000, Deduct	-8.23	
33 01 30 41-0046			Pipe Line Auguring/Rod Out Pipe (33 01 30 41-0001)		
33 01 30 41-0047	EA		Initial Set Up And Final Equipment Removal For Auguring	1,184.32	
33 01 30 41-0048	EA		Move And Reset Up At Different Location	394.78	
33 01 30 41-0049	LF		Up To 4" Diameter Pipe Line Auguring/Rod Out.....	3.95	
			For >250 To 500, Deduct	-0.20	
			For >500 To 1,000, Deduct	-0.40	
			For >1,000 To 2,000, Deduct	-0.59	
			For >2,000 To 5,000, Deduct	-0.79	
			For >5,000, Deduct	-0.99	
33 01 30 41-0050	LF		6" Diameter Pipe Line Auguring/Rod Out	5.10	
			For >250 To 500, Deduct	-0.26	
			For >500 To 1,000, Deduct	-0.51	
			For >1,000 To 2,000, Deduct	-0.77	
			For >2,000 To 5,000, Deduct	-1.02	
			For >5,000, Deduct	-1.28	
33 01 30 41-0051	LF		8" Diameter Pipe Line Auguring/Rod Out	5.93	
			For >250 To 500, Deduct	-0.30	
			For >500 To 1,000, Deduct	-0.59	
			For >1,000 To 2,000, Deduct	-0.89	
			For >2,000 To 5,000, Deduct	-1.19	
			For >5,000, Deduct	-1.48	
33 01 30 41-0052	LF		10" Diameter Pipe Line Auguring/Rod Out	6.88	
			For >250 To 500, Deduct	-0.34	
			For >500 To 1,000, Deduct	-0.69	
			For >1,000 To 2,000, Deduct	-1.03	
			For >2,000 To 5,000, Deduct	-1.38	
			For >5,000, Deduct	-1.72	
33 01 30 41-0053	LF		12" Diameter Pipe Line Auguring/Rod Out	7.40	
			For >250 To 500, Deduct	-0.37	
			For >500 To 1,000, Deduct	-0.74	
			For >1,000 To 2,000, Deduct	-1.11	
			For >2,000 To 5,000, Deduct	-1.48	
			For >5,000, Deduct	-1.85	
33 01 30 41-0054	LF		>12" To 16" Diameter Pipe Line Auguring/Rod Out	8.46	
			For >250 To 500, Deduct	-0.42	
			For >500 To 1,000, Deduct	-0.85	
			For >1,000 To 2,000, Deduct	-1.27	
			For >2,000 To 5,000, Deduct	-1.69	
			For >5,000, Deduct	-2.12	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0055 LF >16" To 24" Diameter Pipe Line Auguring/Rod Out.....	10.38	
For >250 To 500, Deduct	-0.52	
For >500 To 1,000, Deduct	-1.04	
For >1,000 To 2,000, Deduct	-1.56	
For >2,000 To 5,000, Deduct	-2.08	
For >5,000, Deduct	-2.60	
33 01 30 41-0056 LF >24" To 30" Diameter Pipe Line Auguring/Rod Out.....	11.61	
For >250 To 500, Deduct	-0.58	
For >500 To 1,000, Deduct	-1.16	
For >1,000 To 2,000, Deduct	-1.74	
For >2,000 To 5,000, Deduct	-2.32	
For >5,000, Deduct	-2.90	
33 01 30 41-0057 LF >30" To 42" Diameter Pipe Line Auguring/Rod Out.....	13.45	
For >250 To 500, Deduct	-0.67	
For >500 To 1,000, Deduct	-1.35	
For >1,000 To 2,000, Deduct	-2.02	
For >2,000 To 5,000, Deduct	-2.69	
For >5,000, Deduct	-3.36	
33 01 30 41-0058 LF >42 To 60" Diameter Pipe Line Auguring/Rod Out.....	18.50	
For >250 To 500, Deduct	-0.93	
For >500 To 1,000, Deduct	-1.85	
For >1,000 To 2,000, Deduct	-2.78	
For >2,000 To 5,000, Deduct	-3.70	
For >5,000, Deduct	-4.63	
33 01 30 41-0059 LF >60" Diameter Pipe Line Auguring/Rod Out.....	19.74	
For >250 To 500, Deduct	-0.99	
For >500 To 1,000, Deduct	-1.97	
For >1,000 To 2,000, Deduct	-2.96	
For >2,000 To 5,000, Deduct	-3.95	
For >5,000, Deduct	-4.94	

33 01 30 42 Cleaning of Manholes (33 01 30)**33 01 30 42-0001 Structure Cleaning And Flushing (33 01 30 42)**

Note: Includes flushing. Owner provided water.

33 01 30 42-0002 Rod Out Structures And Other Hand Operations (33 01 30 42-0001)

33 01 30 42-0003 EA Rod Out Waste Water Drain	60.64	
33 01 30 42-0004 EA Rod Out Sewer Catch Basin	121.28	
33 01 30 42-0005 EA Up To 6" Diameter Pipe, Rod Out Blockage	24.25	
33 01 30 42-0006 EA 8" Diameter Pipe, Rod Out Blockage	26.69	
33 01 30 42-0007 EA 10" Diameter Pipe, Rod Out Blockage	30.32	
33 01 30 42-0008 EA 12" Diameter Pipe, Rod Out Blockage	35.17	
33 01 30 42-0009 EA >12" To 16" Diameter Pipe, Rod Out Blockage	41.24	
33 01 30 42-0010 EA >16" To 24" Diameter Pipe, Rod Out Blockage	48.52	
33 01 30 42-0011 EA >24" To 30" Diameter Pipe, Rod Out Blockage	57.00	
33 01 30 42-0012 EA >30" To 42" Diameter Pipe, Rod Out Blockage	65.49	
33 01 30 42-0013 EA >42" To 60" Diameter Pipe, Rod Out Blockage	76.41	
33 01 30 42-0014 EA >60" Diameter Pipe, Rod Out Blockage	90.96	
33 01 30 42-0015 EA Clean Out Debris From Entrance To Inlet Structure	303.20	
33 01 30 42-0016 EA 3' To 4' Diameter, Clean Out Blocked Manhole By Hand.....	857.88	
For >10 To 100, Deduct	-128.68	
For >100 To 250, Deduct	-193.02	
For >250, Deduct	-257.36	
33 01 30 42-0017 EA 5' To 6' Diameter, Clean Out Blocked Manhole By Hand.....	1,029.44	
For >10 To 100, Deduct	-154.42	
For >100 To 250, Deduct	-231.62	
For >250, Deduct	-308.83	
33 01 30 42-0018 EA Clean Out Blocked Catch Basin By Hand	514.73	
For >10 To 100, Deduct	-77.21	
For >100 To 250, Deduct	-115.81	
For >250, Deduct	-154.42	

33 01 30 42-0019 Cleaning Manholes And Drainage Structures With Jet/Vacuum (33 01 30 42-0001)

Note: Includes the removal of debris with high pressure water jetting and vacuum equipment and cleaning of grate. Excludes hardened concrete debris and disposal of material.

33 01 30 42-0020 EA Jet/Vacuum Clean 1 To 2 Catch Basins Or Manholes	285.73	
33 01 30 42-0021 EA Jet/Vacuum Clean 3 To 10 Catch Basins Or Manholes	265.33	
33 01 30 42-0022 EA Jet/Vacuum Clean 11 To 25 Catch Basins Or Manholes	244.91	
33 01 30 42-0023 EA Jet/Vacuum Clean 26 To 100 Catch Basins Or Manholes	224.51	
33 01 30 42-0024 EA Jet/Vacuum Clean 101 To 250 Catch Basins Or Manholes	204.09	
33 01 30 42-0025 EA Jet/Vacuum Clean >250 Catch Basins Or Manholes	183.69	

33 01 30 43 Removal of Protruding Service Connection (33 01 30)**33 01 30 43-0001 Trim Protruding Service Taps (33 01 30 43)**

33 01 30 43-0002 EA Trim Protruding Service Tap, 4", Robotic.....	741.64	
33 01 30 43-0003 EA Trim Protruding Service Tap, 6", Robotic.....	815.81	
33 01 30 43-0004 EA Trim Protruding Service Tap, 8", Robotic.....	889.97	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR		TOTAL DIRECT		DEMOLITION UNIT COST
CSI	UOM DESCRIPTION	UNIT COST		
33 01 30 51 Maintenance of Utilities (33 01 30)				
33 01 30 51-0001	Pipe Repair (33 01 30 51) Note: Excludes excavation and backfill where required See CSI section 31 23 00 00-0000 for excavation and backfill.			
33 01 30 51-0002	Pipe Repair Clamp, Full Circle, Single Band (33 01 30 51-0001) Note: Repair clamps for asbestos cement pipe, cast iron soil pipe, non-reinforced concrete pipe, PVC pipe, vitrified clay pipe, gray iron pipe and ductile iron pipe.			
33 01 30 51-0003	EA 2" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... For Stainless Steel Nuts And Bolts, Add	138.52 20.64		
33 01 30 51-0004	EA 2" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... For Stainless Steel Nuts And Bolts, Add	194.37 31.10		
33 01 30 51-0005	EA 2" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... For Stainless Steel Nuts And Bolts, Add	223.59 36.63		
33 01 30 51-0006	EA 2" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... For Stainless Steel Nuts And Bolts, Add	254.18 42.14		
33 01 30 51-0007	EA 2-1/2" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... For Stainless Steel Nuts And Bolts, Add	149.21 22.41		
33 01 30 51-0008	EA 2-1/2" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... For Stainless Steel Nuts And Bolts, Add	206.41 33.19		
33 01 30 51-0009	EA 2-1/2" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... For Stainless Steel Nuts And Bolts, Add	235.79 38.59		
33 01 30 51-0010	EA 2-1/2" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... For Stainless Steel Nuts And Bolts, Add	271.72 45.15		
33 01 30 51-0011	EA 3" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... For Stainless Steel Nuts And Bolts, Add	159.85 24.52		
33 01 30 51-0012	EA 3" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... For Stainless Steel Nuts And Bolts, Add	214.45 34.70		
33 01 30 51-0013	EA 3" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... For Stainless Steel Nuts And Bolts, Add	247.13 40.68		
33 01 30 51-0014	EA 3" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... For Stainless Steel Nuts And Bolts, Add	286.89 48.30		
33 01 30 51-0015	EA 4" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... For Stainless Steel Nuts And Bolts, Add	179.74 27.88		
33 01 30 51-0016	EA 4" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... For Stainless Steel Nuts And Bolts, Add	236.40 37.53		
33 01 30 51-0017	EA 4" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... For Stainless Steel Nuts And Bolts, Add	286.44 45.68		
33 01 30 51-0018	EA 4" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... For Stainless Steel Nuts And Bolts, Add	344.98 55.11		
33 01 30 51-0019	EA 4" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... For Stainless Steel Nuts And Bolts, Add	448.29 74.02		
33 01 30 51-0020	EA 4" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... For Stainless Steel Nuts And Bolts, Add	556.51 92.93		
33 01 30 51-0021	EA 4" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... For Stainless Steel Nuts And Bolts, Add	678.06 113.99		
33 01 30 51-0022	EA 6" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... For Stainless Steel Nuts And Bolts, Add	211.11 32.90		
33 01 30 51-0023	EA 6" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... For Stainless Steel Nuts And Bolts, Add	279.12 44.63		
33 01 30 51-0024	EA 6" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... For Stainless Steel Nuts And Bolts, Add	330.91 52.62		
33 01 30 51-0025	EA 6" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... For Stainless Steel Nuts And Bolts, Add	388.40 61.15		
33 01 30 51-0026	EA 6" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... For Stainless Steel Nuts And Bolts, Add	532.30 88.61		
33 01 30 51-0027	EA 6" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... For Stainless Steel Nuts And Bolts, Add	646.78 108.06		
33 01 30 51-0028	EA 6" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... For Stainless Steel Nuts And Bolts, Add	772.43 129.12		
33 01 30 51-0029	EA 8" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... For Stainless Steel Nuts And Bolts, Add	280.04 39.36		
33 01 30 51-0030	EA 8" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... For Stainless Steel Nuts And Bolts, Add	362.58 52.08		
33 01 30 51-0031	EA 8" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... For Stainless Steel Nuts And Bolts, Add	437.39 63.02		
33 01 30 51-0032	EA 8" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... For Stainless Steel Nuts And Bolts, Add	522.57 75.10		
33 01 30 51-0033	EA 8" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... For Stainless Steel Nuts And Bolts, Add	687.88 104.04		
33 01 30 51-0034	EA 8" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... For Stainless Steel Nuts And Bolts, Add	822.75 124.41		
33 01 30 51-0035	EA 8" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... For Stainless Steel Nuts And Bolts, Add	975.66 146.43		
33 01 30 51-0036	EA 10" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... For Stainless Steel Nuts And Bolts, Add	325.36 47.90		
33 01 30 51-0037	EA 10" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... For Stainless Steel Nuts And Bolts, Add	434.44 66.26		
33 01 30 51-0038	EA 10" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... For Stainless Steel Nuts And Bolts, Add	512.46 77.47		
33 01 30 51-0039	EA 10" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... For Stainless Steel Nuts And Bolts, Add	627.65 95.82		
33 01 30 51-0040	EA 10" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)..... For Stainless Steel Nuts And Bolts, Add	818.31 129.97		

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0041 EA 10" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	935.18 145.27	
33 01 30 51-0042 EA 10" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,196.77 191.65	
33 01 30 51-0043 EA 12" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	371.06 54.03	
33 01 30 51-0044 EA 12" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	482.62 71.86	
33 01 30 51-0045 EA 12" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	582.28 86.96	
33 01 30 51-0046 EA 12" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	714.85 108.06	
33 01 30 51-0047 EA 12" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	914.61 142.72	
33 01 30 51-0048 EA 12" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,077.25 166.67	
33 01 30 51-0049 EA 12" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,362.98 216.11	
33 01 30 51-0050 Pipe Repair Clamp, Full Circle, Double Bands (33 01 30 51-0001) Note: Repair clamps for reinforced concrete pipe, gray iron pipe and ductile iron pipe.		
33 01 30 51-0051 EA 14.38"-15.13" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	796.60 207.89	
33 01 30 51-0052 EA 14.38"-15.13" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,124.08 300.12	
33 01 30 51-0053 EA 14.38"-15.13" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,510.85 407.00	
33 01 30 51-0054 EA 14.38"-15.13" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	2,211.95 613.43	
33 01 30 51-0055 EA 15.07"-15.82" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	836.22 218.12	
33 01 30 51-0056 EA 15.07"-15.82" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,176.83 314.03	
33 01 30 51-0057 EA 15.07"-15.82" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,578.16 424.56	
33 01 30 51-0058 EA 15.07"-15.82" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	2,319.11 642.70	
33 01 30 51-0059 EA 15.92"-16.67" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	858.69 222.53	
33 01 30 51-0060 EA 15.92"-16.67" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,206.33 319.90	
33 01 30 51-0061 EA 15.92"-16.67" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,621.15 434.08	
33 01 30 51-0062 EA 15.92"-16.67" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	2,380.42 656.60	
33 01 30 51-0063 EA 16.56"-17.31" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	882.50 226.92	
33 01 30 51-0064 EA 16.56"-17.31" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,240.01 326.48	
33 01 30 51-0065 EA 16.56"-17.31" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,663.88 442.13	
33 01 30 51-0066 EA 16.56"-17.31" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	2,442.34 669.79	
33 01 30 51-0067 EA 17.15"-17.90" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	904.19 230.58	
33 01 30 51-0068 EA 17.15"-17.90" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,269.35 331.60	
33 01 30 51-0069 EA 17.15"-17.90" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	1,706.60 450.18	
33 01 30 51-0070 EA 17.15"-17.90" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	2,499.17 680.76	
33 01 30 51-0071 EA 17.82"-18.57" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228) <i>For Stainless Steel Nuts And Bolts, Add</i>	924.49 234.25	



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		Operation and Maintenance of Utilities	33 01	
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0072	EA	17.82"-18.57" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith- Blair 228).....	1,298.83	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	337.45	
33 01 30 51-0073	EA	17.82"-18.57" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith- Blair 228).....	1,744.50	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	457.50	
33 01 30 51-0074	EA	17.82"-18.57" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith- Blair 228).....	2,537.04	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	686.25	
33 01 30 51-0075	EA	18.46"-19.21" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith- Blair 228).....	947.42	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	238.81	
33 01 30 51-0076	EA	18.46"-19.21" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith- Blair 228).....	1,333.28	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	344.77	
33 01 30 51-0077	EA	18.46"-19.21" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith- Blair 228).....	1,784.48	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	465.55	
33 01 30 51-0078	EA	18.46"-19.21" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith- Blair 228).....	2,614.56	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	705.65	
33 01 30 51-0079		Repair Couplings and Fittings (33 01 30 51-0001)		
33 01 30 51-0080		Couplings And Fittings For Copper Pipe, Compression (33 01 30 51-0079) Note: Includes gaskets. Dresser style 88.		
33 01 30 51-0081		Copper Compression Repair Couplings (33 01 30 51-0080)		
33 01 30 51-0082	EA	1/2" Copper Compression Repair Coupling.....	104.84	
33 01 30 51-0083	EA	3/4" Copper Compression Repair Coupling.....	121.92	
33 01 30 51-0084	EA	1" Copper Compression Repair Coupling.....	143.35	
33 01 30 51-0085	EA	1-1/4" Copper Compression Repair Coupling.....	161.21	
33 01 30 51-0086	EA	1-1/2" Copper Compression Repair Coupling.....	249.60	
33 01 30 51-0087		Copper Compression Repair Fitting, 90 Degree Elbows (33 01 30 51-0080)		
33 01 30 51-0088	EA	1/2" Copper Compression Repair 90 Degree Elbow.....	126.18	
33 01 30 51-0089	EA	1" Copper Compression Repair 90 Degree Elbow.....	146.40	
33 01 30 51-0090	EA	1-1/2" Copper Compression Repair 90 Degree Elbow.....	298.12	
33 01 30 51-0091	EA	1" IPS x 1" CTS 90 Degree Plain End Street Elbow.....	117.82	
33 01 30 51-0092	EA	3/4" IPS x 3/4" CTS 90 Degree Threaded End Street Elbow.....	105.93	
33 01 30 51-0093	EA	1" IPS x 1" CTS 90 Degree Threaded End Street Elbow.....	124.00	
33 01 30 51-0094	EA	1-1/4" IPS x 1" CTS 90 Degree Threaded End Street Elbow.....	153.50	
33 01 30 51-0095		Copper Compression Repair Fitting, Tees (33 01 30 51-0080)		
33 01 30 51-0096	EA	1/2" Copper Compression Repair Tee.....	231.81	
33 01 30 51-0097	EA	3/4" Copper Compression Repair Tee.....	179.08	
33 01 30 51-0098	EA	1" Copper Compression Repair Tee.....	212.79	
33 01 30 51-0099	EA	1" F x 1" M x 1" CTS Street Tee.....	174.95	
33 01 30 51-0100		Copper Compression Repair Fitting, Male Adapters (33 01 30 51-0080)		
33 01 30 51-0101	EA	3/4" M x 1/2" CTS Male Adapter.....	109.24	
33 01 30 51-0102	EA	3/4" M x 3/4" CTS Male Adapter.....	87.57	
33 01 30 51-0103	EA	1" M x 1" CTS Male Adapter.....	99.70	
33 01 30 51-0104	EA	1-1/4" M x 1" CTS Male Adapter.....	121.17	
33 01 30 51-0105	EA	1-1/4" M x 1-1/4" CTS Male Adapter.....	145.16	
33 01 30 51-0106	EA	1-1/2" M x 1" CTS Male Adapter.....	158.34	
33 01 30 51-0107		Copper Compression Repair Fitting, Female Adapters (33 01 30 51-0080)		
33 01 30 51-0108	EA	3/4" M x 3/4" CTS Female Adapter.....	128.11	
33 01 30 51-0109	EA	1" M x 1" CTS Female Adapter.....	135.63	
33 01 30 51-0110		Couplings And Fittings For Steel Pipe, Cast Body, Compression (33 01 30 51-0079) Note: Includes gaskets. Dresser style 90.		
33 01 30 51-0111		Couplings For Steel Pipe, Cast Body (Compression) (33 01 30 51-0110) Note: Includes gaskets.		
33 01 30 51-0112	EA	1/2" Coupling, Cast Body (Compression), 5" Middle Ring.....	79.27	
33 01 30 51-0113	EA	3/4" Coupling, Cast Body (Compression), 5" Middle Ring.....	80.55	
33 01 30 51-0114	EA	1" Coupling, Cast Body (Compression), 5" Middle Ring.....	90.79	
33 01 30 51-0115	EA	1-1/4" Coupling, Cast Body (Compression), 5" Middle Ring.....	101.11	
33 01 30 51-0116	EA	1-1/2" Coupling, Cast Body (Compression), 5" Middle Ring.....	125.00	
33 01 30 51-0117	EA	2" Coupling, Cast Body (Compression), 5" Middle Ring.....	152.03	
33 01 30 51-0118	EA	1/2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....	81.43	
33 01 30 51-0119	EA	3/4" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....	82.94	
33 01 30 51-0120	EA	1" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....	91.15	
33 01 30 51-0121	EA	1-1/4" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....	102.22	
33 01 30 51-0122	EA	1-1/2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....	128.64	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0123 EA 2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket	153.63	
33 01 30 51-0124 EA 3/4" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket	154.86	
33 01 30 51-0125 EA 1" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket	181.17	
33 01 30 51-0126 EA 1-1/4" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket	188.67	
33 01 30 51-0127 EA 1-1/2" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket	212.37	
33 01 30 51-0128 EA 2" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket	258.39	
33 01 30 51-0129 Reducing Couplings For Steel Pipe (Compression) (33 01 30 51-0110)		
Note: Includes armored gaskets.		
33 01 30 51-0130 EA 3/4" x 1/2" Reducing Coupling (Compression)	87.78	
33 01 30 51-0131 EA 1" x 3/4" Reducing Coupling (Compression)	93.14	
33 01 30 51-0132 EA 1-1/4" x 3/4" Reducing Coupling (Compression)	105.06	
33 01 30 51-0133 EA 1-1/4" x 1" Reducing Coupling (Compression)	109.05	
33 01 30 51-0134 EA 1-1/2" x 3/4" Reducing Coupling (Compression)	208.38	
33 01 30 51-0135 EA 1-1/2" x 1" Reducing Coupling (Compression)	131.20	
33 01 30 51-0136 EA 1-1/2" x 1-1/4" Reducing Coupling (Compression)	131.76	
33 01 30 51-0137 EA 2" x 3/4" Reducing Coupling (Compression)	248.89	
33 01 30 51-0138 EA 2" x 1" Reducing Coupling (Compression)	226.72	
33 01 30 51-0139 EA 2" x 1-1/4" Reducing Coupling (Compression)	173.96	
33 01 30 51-0140 EA 2" x 1-1/2" Reducing Coupling (Compression)	173.38	
33 01 30 51-0141 Steel Compression Repair Fittings, Elbows (33 01 30 51-0110)		
Note: Includes armored gaskets.		
33 01 30 51-0142 EA 1" 45 Degree Elbow (Compression)	144.03	
33 01 30 51-0143 EA 1-1/4" 45 Degree Elbow (Compression)	150.29	
33 01 30 51-0144 EA 1-1/2" 45 Degree Elbow (Compression)	194.04	
33 01 30 51-0145 EA 2" 45 Degree Elbow (Compression)	244.75	
33 01 30 51-0146 EA 3/4" 90 Degree Elbow (Compression)	96.98	
33 01 30 51-0147 EA 1" 90 Degree Elbow (Compression)	100.84	
33 01 30 51-0148 EA 1-1/4" 90 Degree Elbow (Compression)	118.03	
33 01 30 51-0149 EA 1-1/2" 90 Degree Elbow (Compression)	167.88	
33 01 30 51-0150 EA 2" 90 Degree Elbow (Compression)	184.26	
33 01 30 51-0151 EA 3/4" Plain End 90 Degree Street Elbow (Compression)	97.29	
33 01 30 51-0152 EA 1" Plain End 90 Degree Street Elbow (Compression)	86.46	
33 01 30 51-0153 EA 1-1/4" Plain End 90 Degree Street Elbow (Compression)	97.68	
33 01 30 51-0154 EA 1-1/2" Plain End 90 Degree Street Elbow (Compression)	123.52	
33 01 30 51-0155 EA 2" Plain End 90 Degree Street Elbow (Compression)	159.17	
33 01 30 51-0156 EA 3/4" Threaded End 90 Degree Street Elbow (Compression)	100.41	
33 01 30 51-0157 EA 1" Threaded End 90 Degree Street Elbow (Compression)	92.31	
33 01 30 51-0158 EA 1-1/4" Threaded End 90 Degree Street Elbow (Compression)	119.42	
33 01 30 51-0159 EA 1-1/2" Threaded End 90 Degree Street Elbow (Compression)	144.26	
33 01 30 51-0160 EA 2" Threaded End 90 Degree Street Elbow (Compression)	203.53	
33 01 30 51-0161 Steel Compression Repair Fittings, Tees (33 01 30 51-0110)		
Note: Includes armored gaskets.		
33 01 30 51-0162 EA 3/4" Street Tee (Compression)	107.75	
33 01 30 51-0163 EA 1" Street Tee (Compression)	126.79	
33 01 30 51-0164 EA 1-1/4" Street Tee (Compression)	128.75	
33 01 30 51-0165 EA 1-1/2" Street Tee (Compression)	149.18	
33 01 30 51-0166 EA 2" Street Tee (Compression)	223.59	
33 01 30 51-0167 EA 1-1/4" x 1-1/4" x 1" Reducing Street Tee (Compression)	127.62	
33 01 30 51-0168 EA 1-1/4" x 1" x 1-1/4" Reducing Street Tee (Compression)	133.29	
33 01 30 51-0169 EA 1-1/2" x 1-1/2" x 1" Reducing Street Tee (Compression)	166.93	
33 01 30 51-0170 EA 1-1/2" x 1-1/2" x 1-1/4" Reducing Street Tee (Compression)	192.53	
33 01 30 51-0171 EA 1-1/2" x 1" x 1-1/2" Reducing Street Tee (Compression)	193.66	
33 01 30 51-0172 EA 1-1/2" x 1-1/4" x 1-1/2" Reducing Street Tee (Compression)	164.52	
33 01 30 51-0173 EA 2" x 1-1/4" x 2" Reducing Street Tee (Compression)	218.06	
33 01 30 51-0174 EA 2" x 1-1/2" x 2" Reducing Street Tee (Compression)	246.50	
33 01 30 51-0175 EA 3/4" Welding Street Tee (Compression)	193.07	
33 01 30 51-0176 EA 1" Welding Street Tee (Compression)	194.32	
33 01 30 51-0177 EA 1-1/4" Welding Street Tee (Compression)	208.78	
33 01 30 51-0178 EA 1-1/2" Welding Street Tee (Compression)	251.55	
33 01 30 51-0179 EA 2" Welding Street Tee (Compression)	337.78	
33 01 30 51-0180 EA 3/4" Regular Tee (Compression)	143.43	
33 01 30 51-0181 EA 1" Regular Tee (Compression)	248.47	
33 01 30 51-0182 EA 1-1/4" Regular Tee (Compression)	262.82	
33 01 30 51-0183 EA 1-1/2" Regular Tee (Compression)	283.25	
33 01 30 51-0184 EA 2" Regular Tee (Compression)	314.74	
33 01 30 51-0185 EA 2" x 2" x 1-1/4" Regular Reducing Tee (Compression)	310.19	
33 01 30 51-0186 Steel Compression Repair Fittings, Male Adapters (33 01 30 51-0110)		
Note: Includes armored gaskets.		
33 01 30 51-0187 EA 3/4" Male Adapter (Compression)	96.72	
33 01 30 51-0188 EA 1" Male Adapter (Compression)	107.93	
33 01 30 51-0189 EA 1-1/4" Male Adapter (Compression)	140.20	
33 01 30 51-0190 EA 1-1/2" Male Adapter (Compression)	158.79	
33 01 30 51-0191 EA 2" Male Adapter (Compression)	179.49	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0192	EA	1" x 1-1/4" Male Adapter (Compression)	139.47	
33 01 30 51-0193		Steel Compression Repair Fittings, Line Caps (33 01 30 51-0110) Note: Includes armored gaskets.		
33 01 30 51-0194	EA	3/4" Line Caps (Compression).....	51.85	
33 01 30 51-0195	EA	1" Line Caps (Compression).....	60.38	
33 01 30 51-0196	EA	1-1/4" Line Caps (Compression).....	69.03	
33 01 30 51-0197	EA	1-1/2" Line Caps (Compression).....	81.38	
33 01 30 51-0198	EA	2" Line Caps (Compression).....	100.41	
33 01 30 51-0199		Couplings For Steel Pipe (33 01 30 51-0079) Note: Includes Buna S gasket, Dresser style 38		
33 01 30 51-0200	EA	1/2" Coupling, 3-1/2" Middle Ring With Buna S Gasket.....	78.58	
33 01 30 51-0201	EA	3/4" Coupling, 5" Middle Ring With Buna S Gasket.....	97.63	
33 01 30 51-0202	EA	1" Coupling, 5" Middle Ring With Buna S Gasket.....	112.77	
33 01 30 51-0203	EA	1-1/2" Coupling, 5" Middle Ring With Buna S Gasket.....	135.32	
33 01 30 51-0204	EA	2" Coupling, 4" Middle Ring With Buna S Gasket.....	167.26	
33 01 30 51-0205	EA	2" Coupling, 5" Middle Ring With Buna S Gasket.....	217.25	
33 01 30 51-0206	EA	2" Coupling, 7" Middle Ring With Buna S Gasket.....	204.81	
33 01 30 51-0207	EA	3" Coupling, 4" Middle Ring With Buna S Gasket.....	269.49	
33 01 30 51-0208	EA	3" Coupling, 5" Middle Ring With Buna S Gasket.....	277.02	
33 01 30 51-0209	EA	3" Coupling, 7" Middle Ring With Buna S Gasket.....	284.55	
33 01 30 51-0210	EA	4" Coupling, 4" Middle Ring With Buna S Gasket.....	314.09	
33 01 30 51-0211	EA	4" Coupling, 5" Middle Ring With Buna S Gasket.....	326.87	
33 01 30 51-0212	EA	4" Coupling, 7" Middle Ring With Buna S Gasket.....	342.89	
33 01 30 51-0213	EA	5" Coupling, 4" Middle Ring With Buna S Gasket.....	404.54	
33 01 30 51-0214	EA	5" Coupling, 5" Middle Ring With Buna S Gasket.....	409.58	
33 01 30 51-0215	EA	5" Coupling, 7" Middle Ring With Buna S Gasket.....	427.95	
33 01 30 51-0216	EA	6" Coupling, 4" Middle Ring With Buna S Gasket.....	433.71	
33 01 30 51-0217	EA	6" Coupling, 5" Middle Ring With Buna S Gasket.....	447.36	
33 01 30 51-0218	EA	6" Coupling, 7" Middle Ring With Buna S Gasket.....	464.79	
33 01 30 51-0219	EA	8" Coupling, 4" Middle Ring With Buna S Gasket.....	506.18	
33 01 30 51-0220	EA	8" Coupling, 5" Middle Ring With Buna S Gasket.....	526.35	
33 01 30 51-0221	EA	8" Coupling, 7" Middle Ring With Buna S Gasket.....	542.92	
33 01 30 51-0222	EA	10" Coupling, 5" Middle Ring With Buna S Gasket.....	619.38	
33 01 30 51-0223	EA	10" Coupling, 7" Middle Ring With Buna S Gasket.....	714.61	
33 01 30 51-0224	EA	12" Coupling, 5" Middle Ring With Buna S Gasket.....	703.83	
33 01 30 51-0225	EA	12" Coupling, 7" Middle Ring With Buna S Gasket.....	905.71	
33 01 30 51-0226	EA	14" Coupling, 7" Middle Ring With Buna S Gasket.....	1,044.54	
33 01 30 51-0227	EA	16" Coupling, 7" Middle Ring With Buna S Gasket.....	1,242.96	
33 01 30 51-0228	EA	18" Coupling, 7" Middle Ring With Buna S Gasket.....	1,366.61	
33 01 30 51-0229	EA	20" Coupling, 7" Middle Ring With Buna S Gasket.....	1,475.21	
33 01 30 51-0230	EA	22" Coupling, 7" Middle Ring With Buna S Gasket.....	1,836.01	
33 01 30 51-0231	EA	24" Coupling, 7" Middle Ring With Buna S Gasket.....	1,933.33	
33 01 30 51-0232		Couplings For Steel Pipe (33 01 30 51-0079) Note: Includes Buna S gasket, protected, Dresser style 38.		
33 01 30 51-0233	EA	1/2" Coupling, 3-1/2" Middle Ring With Buna S Gasket, Protected.....	80.74	
33 01 30 51-0234	EA	3/4" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	97.33	
33 01 30 51-0235	EA	1" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	112.64	
33 01 30 51-0236	EA	1-1/2" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	134.32	
33 01 30 51-0237	EA	2" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	195.98	
33 01 30 51-0238	EA	2" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	192.03	
33 01 30 51-0239	EA	2" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	194.00	
33 01 30 51-0240	EA	3" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	284.55	
33 01 30 51-0241	EA	3" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	292.07	
33 01 30 51-0242	EA	3" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	299.60	
33 01 30 51-0243	EA	4" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	334.61	
33 01 30 51-0244	EA	4" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	321.34	
33 01 30 51-0245	EA	4" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	328.32	
33 01 30 51-0246	EA	5" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	430.96	
33 01 30 51-0247	EA	5" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	434.65	
33 01 30 51-0248	EA	5" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	605.43	
33 01 30 51-0249	EA	6" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	441.79	
33 01 30 51-0250	EA	6" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	461.38	
33 01 30 51-0251	EA	6" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	468.94	
33 01 30 51-0252	EA	8" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	549.97	
33 01 30 51-0253	EA	8" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	557.41	
33 01 30 51-0254	EA	8" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	569.40	
33 01 30 51-0255	EA	10" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	637.44	
33 01 30 51-0256	EA	10" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	733.43	
33 01 30 51-0257	EA	12" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	722.65	
33 01 30 51-0258	EA	12" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	924.12	
33 01 30 51-0259	EA	14" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	1,063.36	
33 01 30 51-0260	EA	16" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	1,271.19	
33 01 30 51-0261	EA	18" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	1,404.25	
33 01 30 51-0262	EA	20" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	1,512.85	
33 01 30 51-0263	EA	22" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	1,873.65	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 01 30 51-0264 EA 24" Coupling, 7" Middle Ring With Buna S Gasket, Protected..... 1,970.97

33 01 30 51-0265**Couplings For Steel Pipe (33 01 30 51-0079)**

Note: Includes Buna N gasket, protected, Dresser style 38.

33 01 30 51-0266	EA	1/2" Coupling, 3-1/2" Middle Ring With Buna N Gasket, Protected	94.12
33 01 30 51-0267	EA	3/4" Coupling, 5" Middle Ring With Buna N Gasket, Protected	110.95
33 01 30 51-0268	EA	1" Coupling, 5" Middle Ring With Buna N Gasket, Protected	128.62
33 01 30 51-0269	EA	1-1/2" Coupling, 5" Middle Ring With Buna N Gasket, Protected	155.08
33 01 30 51-0270	EA	2" Coupling, 4" Middle Ring With Buna N Gasket, Protected	195.98
33 01 30 51-0271	EA	2" Coupling, 5" Middle Ring With Buna N Gasket, Protected	229.59
33 01 30 51-0272	EA	2" Coupling, 7" Middle Ring With Buna N Gasket, Protected	240.77
33 01 30 51-0273	EA	3" Coupling, 4" Middle Ring With Buna N Gasket, Protected	284.55
33 01 30 51-0274	EA	3" Coupling, 5" Middle Ring With Buna N Gasket, Protected	292.07
33 01 30 51-0275	EA	3" Coupling, 7" Middle Ring With Buna N Gasket, Protected	299.60
33 01 30 51-0276	EA	4" Coupling, 4" Middle Ring With Buna N Gasket, Protected	334.61
33 01 30 51-0277	EA	4" Coupling, 5" Middle Ring With Buna N Gasket, Protected	361.45
33 01 30 51-0278	EA	4" Coupling, 7" Middle Ring With Buna N Gasket, Protected	371.65
33 01 30 51-0279	EA	5" Coupling, 4" Middle Ring With Buna N Gasket, Protected	430.96
33 01 30 51-0280	EA	5" Coupling, 5" Middle Ring With Buna N Gasket, Protected	434.65
33 01 30 51-0281	EA	5" Coupling, 7" Middle Ring With Buna N Gasket, Protected	477.75
33 01 30 51-0282	EA	6" Coupling, 4" Middle Ring With Buna N Gasket, Protected	441.79
33 01 30 51-0283	EA	6" Coupling, 5" Middle Ring With Buna N Gasket, Protected	461.38
33 01 30 51-0284	EA	6" Coupling, 7" Middle Ring With Buna N Gasket, Protected	468.94
33 01 30 51-0285	EA	8" Coupling, 4" Middle Ring With Buna N Gasket, Protected	549.97
33 01 30 51-0286	EA	8" Coupling, 5" Middle Ring With Buna N Gasket, Protected	557.41
33 01 30 51-0287	EA	8" Coupling, 7" Middle Ring With Buna N Gasket, Protected	569.40
33 01 30 51-0288	EA	10" Coupling, 5" Middle Ring With Buna N Gasket, Protected	637.44
33 01 30 51-0289	EA	10" Coupling, 7" Middle Ring With Buna N Gasket, Protected	733.43
33 01 30 51-0290	EA	12" Coupling, 5" Middle Ring With Buna N Gasket, Protected	722.65
33 01 30 51-0291	EA	12" Coupling, 7" Middle Ring With Buna N Gasket, Protected	924.12
33 01 30 51-0292	EA	14" Coupling, 7" Middle Ring With Buna N Gasket, Protected	1,063.36
33 01 30 51-0293	EA	16" Coupling, 7" Middle Ring With Buna N Gasket, Protected	1,242.96
33 01 30 51-0294	EA	18" Coupling, 7" Middle Ring With Buna N Gasket, Protected	1,404.25
33 01 30 51-0295	EA	20" Coupling, 7" Middle Ring With Buna N Gasket, Protected	1,512.85
33 01 30 51-0296	EA	22" Coupling, 7" Middle Ring With Buna N Gasket, Protected	1,873.65
33 01 30 51-0297	EA	24" Coupling, 7" Middle Ring With Buna N Gasket, Protected	1,970.97

33 01 30 51-0298**Couplings For Steel Pipe (33 01 30 51-0079)**

Note: Includes high temperature carded glass gasket, protected, Dresser style 38.

33 01 30 51-0299	EA	3/4" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	158.17
33 01 30 51-0300	EA	1" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	171.79
33 01 30 51-0301	EA	1-1/2" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	181.41
33 01 30 51-0302	EA	2" Coupling, 4" Middle Ring With High Temp Carded Glass Gasket	275.59
33 01 30 51-0303	EA	2" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	296.18
33 01 30 51-0304	EA	2" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	306.67
33 01 30 51-0305	EA	3" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	357.10
33 01 30 51-0306	EA	3" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	354.73
33 01 30 51-0307	EA	4" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	399.09
33 01 30 51-0308	EA	4" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	409.29
33 01 30 51-0309	EA	5" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	551.53
33 01 30 51-0310	EA	5" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	565.06
33 01 30 51-0311	EA	6" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	589.10
33 01 30 51-0312	EA	6" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	598.08
33 01 30 51-0313	EA	8" Coupling, 4" Middle Ring With High Temp Carded Glass Gasket	614.55
33 01 30 51-0314	EA	8" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	749.26
33 01 30 51-0315	EA	8" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	804.19
33 01 30 51-0316	EA	10" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	824.89
33 01 30 51-0317	EA	10" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	824.70
33 01 30 51-0318	EA	12" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	1,043.26
33 01 30 51-0319	EA	12" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	1,084.63
33 01 30 51-0320	EA	14" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	1,252.41
33 01 30 51-0321	EA	16" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	1,562.58
33 01 30 51-0322	EA	18" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	1,532.24
33 01 30 51-0323	EA	20" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	1,706.71
33 01 30 51-0324	EA	22" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	1,849.19
33 01 30 51-0325	EA	24" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	2,008.61

33 01 30 51-0326**Grind Offset Joint (33 01 30 51-0001)**

33 01 30 51-0327	EA	6" To 10", Grind Drop Offset Joint	444.99
33 01 30 51-0328	EA	>10" To 15", Grind Drop Offset Joint	593.31
33 01 30 51-0329	EA	>15" To 24", Grind Drop Offset Joint	741.64
33 01 30 51-0330	EA	>24" To 30", Grind Drop Offset Joint	889.97

33 01 30 51-0331**Pipe Plugging (33 01 30 51-0001)****33 01 30 51-0332****Gravity Bladder Type, Temporary Pipe Plugging (33 01 30 51-0331)**

Note: Includes insertion of expandable bladder device into pipe, expanding to block flow and removal.



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
33 01 30 51-0333	EA	3/4" Bladder Type, Temporary Pipe Plug.....	76.54	
33 01 30 51-0334	EA	1" Bladder Type, Temporary Pipe Plug.....	81.90	
33 01 30 51-0335	EA	1-1/4" Bladder Type, Temporary Pipe Plug.....	88.47	
33 01 30 51-0336	EA	1-1/2" Bladder Type, Temporary Pipe Plug.....	94.55	
33 01 30 51-0337	EA	2" Bladder Type, Temporary Pipe Plug.....	100.38	
33 01 30 51-0338	EA	2-1/2" Bladder Type, Temporary Pipe Plug.....	106.92	
33 01 30 51-0339	EA	3" Bladder Type, Temporary Pipe Plug.....	115.24	
33 01 30 51-0340	EA	4" Bladder Type, Temporary Pipe Plug.....	126.80	
33 01 30 51-0341	EA	5" Bladder Type, Temporary Pipe Plug.....	137.38	
33 01 30 51-0342	EA	6" Bladder Type, Temporary Pipe Plug.....	153.24	
33 01 30 51-0343	EA	8" Bladder Type, Temporary Pipe Plug.....	170.15	
33 01 30 51-0344	EA	10" Bladder Type, Temporary Pipe Plug.....	197.19	
33 01 30 51-0345	EA	12" Bladder Type, Temporary Pipe Plug.....	231.03	
33 01 30 51-0346	EA	14" Bladder Type, Temporary Pipe Plug.....	274.89	
33 01 30 51-0347	EA	16" Bladder Type, Temporary Pipe Plug.....	331.15	
33 01 30 51-0348	EA	18" Bladder Type, Temporary Pipe Plug.....	398.73	
33 01 30 51-0349	EA	20" Bladder Type, Temporary Pipe Plug.....	475.25	
33 01 30 51-0350	EA	24" Bladder Type, Temporary Pipe Plug.....	548.80	
33 01 30 51-0351 Hydra Stop, Hot Tapping Of Pressure Pipe (33 01 30 51-0331)				
Note: Includes flanged or threaded lateral outlet, cutting and tapping pipe, insertion of expandable bladder device into pipe, expanding to block flow, and removal of bladder/cutting device.				
33 01 30 51-0352	EA	2" Hydra Stop, Line Stopper.....	2,662.49	
33 01 30 51-0353	EA	2-1/2" Hydra Stop, Line Stopper.....	3,341.00	
33 01 30 51-0354	EA	3" Hydra Stop, Line Stopper.....	4,096.83	
33 01 30 51-0355	EA	4" Hydra Stop, Line Stopper.....	4,938.34	
33 01 30 51-0356	EA	5" Hydra Stop, Line Stopper.....	5,560.74	
33 01 30 51-0357	EA	6" Hydra Stop, Line Stopper.....	6,547.79	
33 01 30 51-0358	EA	8" Hydra Stop, Line Stopper.....	7,170.20	
33 01 30 51-0359	EA	10" Hydra Stop, Line Stopper.....	8,157.22	
33 01 30 51-0360	EA	12" Hydra Stop, Line Stopper.....	9,144.29	
33 01 30 51-0361	EA	14" Hydra Stop, Line Stopper.....	10,195.75	
33 01 30 51-0362	EA	16" Hydra Stop, Line Stopper.....	11,633.92	
33 01 30 51-0363	EA	18" Hydra Stop, Line Stopper.....	13,265.39	
33 01 30 51-0364	EA	20" Hydra Stop, Line Stopper.....	15,798.93	
33 01 30 51-0365 Aluminum Expansion Plugs (33 01 30 51-0331)				
Note: For use with PVC, clay Or cast iron drainage pipe.				
33 01 30 51-0366	EA	3" Pipe Aluminum Expansion Plug.....	79.58	
33 01 30 51-0367	EA	4" Pipe Aluminum Expansion Plug.....	113.14	
33 01 30 51-0368	EA	5" Pipe Aluminum Expansion Plug.....	127.36	
33 01 30 51-0369	EA	6" Pipe Aluminum Expansion Plug.....	191.60	
33 01 30 51-0370	EA	8" Pipe Aluminum Expansion Plug.....	197.09	
33 01 30 51-0371	EA	10" Pipe Aluminum Expansion Plug.....	245.64	
33 01 30 51-0372	EA	12" Pipe Aluminum Expansion Plug.....	330.60	
33 01 30 51-0373	EA	14" Pipe Aluminum Expansion Plug.....	530.74	
33 01 30 51-0374	EA	15" Pipe Aluminum Expansion Plug.....	574.52	
33 01 30 51-0375 Pipe Repair Clamp, Stainless Steel, 3" Long (33 01 30 51-0001)				
33 01 30 51-0376	EA	1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	190.61	
33 01 30 51-0377	EA	3/4" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	190.79	
33 01 30 51-0378	EA	1" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	191.23	
33 01 30 51-0379	EA	1-1/4" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	191.67	
33 01 30 51-0380	EA	1-1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	191.89	
33 01 30 51-0381	EA	2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	192.55	
33 01 30 51-0382	EA	2-1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	193.21	
33 01 30 51-0383	EA	3" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	194.09	
33 01 30 51-0384	EA	4" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	350.71	
33 01 30 51-0385	EA	6" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	353.57	
33 01 30 51-0386	EA	8" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	355.56	
33 01 30 51-0387	EA	10" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	376.51	
33 01 30 51-0388	EA	12" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	379.16	
33 01 30 51-0389	EA	14" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	380.93	
33 01 30 51-0390	EA	16" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	383.57	
33 01 30 51-0391	EA	18" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	386.22	
33 01 30 51-0392	EA	20" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	389.75	
33 01 30 51-0393	EA	24" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	395.92	
33 01 30 51-0394 Polyseal Pipe Coupler (33 01 30 51-0001)				
33 01 30 51-0395	EA	18" Diameter Pipe, PolySeal Repair Couplers (MarMac).....	397.46	
33 01 30 51-0396	EA	24" Diameter Pipe, PolySeal Repair Couplers (MarMac).....	449.19	
33 01 30 63 Sewer and Pipe Joint Sealing (33 01 30)				
33 01 30 63-0001 Joint Air Test (33 01 30 63)				
33 01 30 63-0002	EA	4" To 8", Joint Air Test.....	109.72	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 63-0003 EA 10" To 15", Joint Air Test	128.00	
33 01 30 63-0004 EA >15" To 21", Joint Air Test	146.29	
33 01 30 63-0005 EA >21" To 24", Joint Air Test	182.85	
33 01 30 63-0006 EA >24" To 27", Joint Air Test	219.42	
33 01 30 63-0007 EA >27" To 36", Joint Air Test	256.00	
33 01 30 63-0008 Joint Seal And Joint Air Retest (33 01 30 63)		
Note: Includes grout.		
33 01 30 63-0009 EA 4" Joint Seal And Joint Air Retest	327.32	
Note: Includes up to 1 gallon of grout.		
33 01 30 63-0010 EA 6" Joint Seal And Joint Air Retest	363.89	
Note: Includes 1 gallon of grout.		
33 01 30 63-0011 EA 8" Joint Seal And Joint Air Retest	435.20	
Note: Includes 2 gallons of grout.		
33 01 30 63-0012 EA 10" Joint Seal And Joint Air Retest	489.16	
Note: Includes 2.5 gallons of grout.		
33 01 30 63-0013 EA 12" Joint Seal And Joint Air Retest	543.09	
Note: Includes 3 gallons of grout.		
33 01 30 63-0014 EA 15" Joint Seal And Joint Air Retest	642.29	
Note: Includes 3.75 gallons of grout.		
33 01 30 63-0015 EA 18" Joint Seal And Joint Air Retest	741.50	
Note: Includes 4.5 gallons of grout.		
33 01 30 63-0016 EA 21" Joint Seal And Joint Air Retest	840.70	
Note: Includes 5.25 gallons of grout.		
33 01 30 63-0017 EA 24" Joint Seal And Joint Air Retest	976.47	
Note: Includes 6 gallons of grout.		
33 01 30 63-0018 EA 27" Joint Seal And Joint Air Retest	1,112.25	
Note: Includes 6.75 gallons of grout.		
33 01 30 63-0019 EA 30" Joint Seal And Joint Air Retest	1,284.60	
Note: Includes 7.5 gallons of grout.		
33 01 30 63-0020 EA 36" Joint Seal And Joint Air Retest	1,483.00	
Note: Includes 9 gallons of grout.		
33 01 30 63-0021 GAL Extra Grout Per Joint	181.04	
Note: For extra grout per joint required over listed amount.		
33 01 30 71 Relining Sewer Utilities Pipelines (33 01 30 71)		
33 01 30 71-0001 Relining Underground Pipelines (33 01 30 71)		
Note: Excludes CCTV inspection, sewer cleaning, pavement both temporary and permanent, emergency after hours response for homeowners backups. See CSI section 01 22 20 00-0000 for hourly rates for after hours response for homeowners backups, 32 01 17 63-0000 for temporary pavement, 32 12 16 00-0000 for permanent pavement, 33 01 30 11-0000 for CCTV inspection, 33 01 30 41-0002 for sewer cleaning.		
33 01 30 71-0002 Lining Pipe With Rib Loc (33 01 30 71-0001)		
33 01 30 71-0003 LF Lining 6" Pipe With Rib Loc	47.74	
For >500 To 1,000, Deduct		
For >1,000 To 2,000, Deduct		
For >2,000 To 5,000, Deduct		
For >5,000, Deduct		
33 01 30 71-0004 LF Lining 8" Pipe With Rib Loc	53.13	
For >500 To 1,000, Deduct		
For >1,000 To 2,000, Deduct		
For >2,000 To 5,000, Deduct		
For >5,000, Deduct		
33 01 30 71-0005 LF Lining 10" Pipe With Rib Loc	73.90	
For >500 To 1,000, Deduct		
For >1,000 To 2,000, Deduct		
For >2,000 To 5,000, Deduct		
For >5,000, Deduct		
33 01 30 71-0006 LF Lining 12" Pipe With Rib Loc	94.28	
For >500 To 1,000, Deduct		
For >1,000 To 2,000, Deduct		
For >2,000 To 5,000, Deduct		
For >5,000, Deduct		
33 01 30 71-0007 LF Lining 15" Pipe With Rib Loc	125.76	
For >500 To 1,000, Deduct		
For >1,000 To 2,000, Deduct		
For >2,000 To 5,000, Deduct		
For >5,000, Deduct		
33 01 30 71-0008 LF Lining 18" Pipe With Rib Loc	162.47	
For >500 To 1,000, Deduct		
For >1,000 To 2,000, Deduct		
For >2,000 To 5,000, Deduct		
For >5,000, Deduct		
33 01 30 71-0009 LF Lining 21" Pipe With Rib Loc	204.32	
For >500 To 1,000, Deduct		
For >1,000 To 2,000, Deduct		
For >2,000 To 5,000, Deduct		
For >5,000, Deduct		
33 01 30 71-0010 LF Lining 24" Pipe With Rib Loc	253.12	
For >500 To 1,000, Deduct		
For >1,000 To 2,000, Deduct		
For >2,000 To 5,000, Deduct		
For >5,000, Deduct		



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0011	LF	Lining 27" Pipe With Rib Loc	303.42	
		For >500 To 1,000, Deduct	-6.61	
		For >1,000 To 2,000, Deduct	-13.09	
		For >2,000 To 5,000, Deduct	-19.83	
		For >5,000, Deduct	-31.70	
33 01 30 71-0012	LF	Lining 30" Pipe With Rib Loc	360.14	
		For >500 To 1,000, Deduct	-7.81	
		For >1,000 To 2,000, Deduct	-15.46	
		For >2,000 To 5,000, Deduct	-23.42	
		For >5,000, Deduct	-37.52	
33 01 30 71-0013	LF	Lining 36" Pipe With Rib Loc	459.61	
		For >500 To 1,000, Deduct	-9.87	
		For >1,000 To 2,000, Deduct	-19.57	
		For >2,000 To 5,000, Deduct	-29.61	
		For >5,000, Deduct	-47.66	
33 01 30 71-0014	LF	Lining 42" Pipe With Rib Loc	572.67	
		For >500 To 1,000, Deduct	-12.23	
		For >1,000 To 2,000, Deduct	-24.26	
		For >2,000 To 5,000, Deduct	-36.68	
		For >5,000, Deduct	-59.20	
33 01 30 71-0015	LF	Lining 48" Pipe With Rib Loc	701.16	
		For >500 To 1,000, Deduct	-14.93	
		For >1,000 To 2,000, Deduct	-29.63	
		For >2,000 To 5,000, Deduct	-44.78	
		For >5,000, Deduct	-72.38	
33 01 30 71-0016	LF	Lining 54" Pipe With Rib Loc	829.09	
		For >500 To 1,000, Deduct	-17.67	
		For >1,000 To 2,000, Deduct	-35.06	
		For >2,000 To 5,000, Deduct	-53.00	
		For >5,000, Deduct	-85.62	
33 01 30 71-0017	LF	Lining 60" Pipe With Rib Loc	977.98	
		For >500 To 1,000, Deduct	-21.04	
		For >1,000 To 2,000, Deduct	-41.71	
		For >2,000 To 5,000, Deduct	-63.12	
		For >5,000, Deduct	-101.50	
33 01 30 71-0018	LF	Lining 66" Pipe With Rib Loc	1,160.35	
		For >500 To 1,000, Deduct	-25.53	
		For >1,000 To 2,000, Deduct	-50.48	
		For >2,000 To 5,000, Deduct	-76.59	
		For >5,000, Deduct	-121.85	
33 01 30 71-0019	LF	Lining 72" Pipe With Rib Loc	1,399.37	
		For >500 To 1,000, Deduct	-32.05	
		For >1,000 To 2,000, Deduct	-63.09	
		For >2,000 To 5,000, Deduct	-96.16	
		For >5,000, Deduct	-150.11	
33 01 30 71-0020		Lining Pipe, Spray Applied With Structural Polyurethane (33 01 30 71-0001) Note: Two part structural polyurethane.		
33 01 30 71-0021		Mobilization And Setup For Spray Applied Structural Polyurethane Lining (33 01 30 71-0020)		
33 01 30 71-0022	EA	Initial Set Up And Final Equipment Removal For Spray Applied Structural Polyurethane Lining.....	1,703.69	
33 01 30 71-0023		Lining Pipe, Spray Applied With 100 mil Structural Polyurethane (33 01 30 71-0020) Note: Two part structural polyurethane.		
33 01 30 71-0024	LF	36" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	56.20	
		For Up To 75, Add	12.16	
		For >75 To 150, Add	5.62	
		For >500 To 1,000, Deduct	-1.49	
		For >1,000 To 2,000, Deduct	-2.89	
		For >2,000 To 5,000, Deduct	-4.47	
		For >5,000, Deduct	-6.54	
33 01 30 71-0025	LF	42" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	65.57	
		For Up To 75, Add	14.19	
		For >75 To 150, Add	6.56	
		For >500 To 1,000, Deduct	-1.74	
		For >1,000 To 2,000, Deduct	-3.37	
		For >2,000 To 5,000, Deduct	-5.22	
		For >5,000, Deduct	-7.63	
33 01 30 71-0026	LF	48" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	74.93	
		For Up To 75, Add	16.21	
		For >75 To 150, Add	7.49	
		For >500 To 1,000, Deduct	-1.99	
		For >1,000 To 2,000, Deduct	-3.85	
		For >2,000 To 5,000, Deduct	-5.97	
		For >5,000, Deduct	-8.72	
33 01 30 71-0027	LF	54" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	84.29	
		For Up To 75, Add	18.24	
		For >75 To 150, Add	8.43	
		For >500 To 1,000, Deduct	-2.24	
		For >1,000 To 2,000, Deduct	-4.34	
		For >2,000 To 5,000, Deduct	-6.71	
		For >5,000, Deduct	-9.81	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0028 LF 60" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	93.67	
For Up To 75, Add	20.27	
For >75 To 150, Add	9.37	
For >500 To 1,000, Deduct	-2.49	
For >1,000 To 2,000, Deduct	-4.82	
For >2,000 To 5,000, Deduct	-7.46	
For >5,000, Deduct	-10.90	
33 01 30 71-0029 LF 66" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	103.03	
For Up To 75, Add	22.29	
For >75 To 150, Add	10.30	
For >500 To 1,000, Deduct	-2.73	
For >1,000 To 2,000, Deduct	-5.30	
For >2,000 To 5,000, Deduct	-8.20	
For >5,000, Deduct	-11.99	
33 01 30 71-0030 LF 72" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	112.40	
For Up To 75, Add	24.32	
For >75 To 150, Add	11.24	
For >500 To 1,000, Deduct	-2.98	
For >1,000 To 2,000, Deduct	-5.78	
For >2,000 To 5,000, Deduct	-8.95	
For >5,000, Deduct	-13.08	
33 01 30 71-0031 LF 78" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	121.77	
For Up To 75, Add	26.35	
For >75 To 150, Add	12.18	
For >500 To 1,000, Deduct	-3.23	
For >1,000 To 2,000, Deduct	-6.26	
For >2,000 To 5,000, Deduct	-9.70	
For >5,000, Deduct	-14.17	
33 01 30 71-0032 LF 84" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	131.13	
For Up To 75, Add	28.37	
For >75 To 150, Add	13.11	
For >500 To 1,000, Deduct	-3.48	
For >1,000 To 2,000, Deduct	-6.75	
For >2,000 To 5,000, Deduct	-10.44	
For >5,000, Deduct	-15.26	
33 01 30 71-0033 LF 90" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	140.49	
For Up To 75, Add	30.40	
For >75 To 150, Add	14.05	
For >500 To 1,000, Deduct	-3.73	
For >1,000 To 2,000, Deduct	-7.23	
For >2,000 To 5,000, Deduct	-11.19	
For >5,000, Deduct	-16.35	
33 01 30 71-0034 LF 96" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	149.87	
For Up To 75, Add	32.42	
For >75 To 150, Add	14.99	
For >500 To 1,000, Deduct	-3.98	
For >1,000 To 2,000, Deduct	-7.71	
For >2,000 To 5,000, Deduct	-11.93	
For >5,000, Deduct	-17.44	
33 01 30 71-0035 LF 102" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	159.24	
For Up To 75, Add	34.45	
For >75 To 150, Add	15.92	
For >500 To 1,000, Deduct	-4.23	
For >1,000 To 2,000, Deduct	-8.19	
For >2,000 To 5,000, Deduct	-12.68	
For >5,000, Deduct	-18.53	
33 01 30 71-0036 LF 108" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	168.60	
For Up To 75, Add	36.48	
For >75 To 150, Add	16.86	
For >500 To 1,000, Deduct	-4.47	
For >1,000 To 2,000, Deduct	-8.67	
For >2,000 To 5,000, Deduct	-13.42	
For >5,000, Deduct	-19.62	
33 01 30 71-0037 LF 114" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	177.96	
For Up To 75, Add	38.50	
For >75 To 150, Add	17.80	
For >500 To 1,000, Deduct	-4.72	
For >1,000 To 2,000, Deduct	-9.16	
For >2,000 To 5,000, Deduct	-14.17	
For >5,000, Deduct	-20.71	
33 01 30 71-0038 LF 120" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane	187.32	
For Up To 75, Add	40.53	
For >75 To 150, Add	18.73	
For >500 To 1,000, Deduct	-4.97	
For >1,000 To 2,000, Deduct	-9.64	
For >2,000 To 5,000, Deduct	-14.91	
For >5,000, Deduct	-21.79	
33 01 30 71-0039 SF Structure Lining, Spray Applied With 100 mil Structural Polyurethane	5.96	

33 01 30 71-0040 Lining Pipe, Spray Applied With 150 mil Structural Polyurethane (33 01 30 71-0020)

Note: Two part structural polyurethane.



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0041	LF	36" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	76.12	
		For Up To 75, Add	16.19	
		For >75 To 150, Add	7.61	
		For >500 To 1,000, Deduct	-1.91	
		For >1,000 To 2,000, Deduct	-3.72	
		For >2,000 To 5,000, Deduct	-5.73	
		For >5,000, Deduct	-8.58	
33 01 30 71-0042	LF	42" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	88.79	
		For Up To 75, Add	18.89	
		For >75 To 150, Add	8.88	
		For >500 To 1,000, Deduct	-2.23	
		For >1,000 To 2,000, Deduct	-4.34	
		For >2,000 To 5,000, Deduct	-6.68	
		For >5,000, Deduct	-10.01	
33 01 30 71-0043	LF	48" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	101.48	
		For Up To 75, Add	21.59	
		For >75 To 150, Add	10.15	
		For >500 To 1,000, Deduct	-2.55	
		For >1,000 To 2,000, Deduct	-4.96	
		For >2,000 To 5,000, Deduct	-7.64	
		For >5,000, Deduct	-11.44	
33 01 30 71-0044	LF	54" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	114.17	
		For Up To 75, Add	24.29	
		For >75 To 150, Add	11.42	
		For >500 To 1,000, Deduct	-2.86	
		For >1,000 To 2,000, Deduct	-5.58	
		For >2,000 To 5,000, Deduct	-8.59	
		For >5,000, Deduct	-12.87	
33 01 30 71-0045	LF	60" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	126.86	
		For Up To 75, Add	26.98	
		For >75 To 150, Add	12.69	
		For >500 To 1,000, Deduct	-3.18	
		For >1,000 To 2,000, Deduct	-6.20	
		For >2,000 To 5,000, Deduct	-9.55	
		For >5,000, Deduct	-14.30	
33 01 30 71-0046	LF	66" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	139.53	
		For Up To 75, Add	29.68	
		For >75 To 150, Add	13.95	
		For >500 To 1,000, Deduct	-3.50	
		For >1,000 To 2,000, Deduct	-6.82	
		For >2,000 To 5,000, Deduct	-10.50	
		For >5,000, Deduct	-15.73	
33 01 30 71-0047	LF	72" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	152.23	
		For Up To 75, Add	32.38	
		For >75 To 150, Add	15.22	
		For >500 To 1,000, Deduct	-3.82	
		For >1,000 To 2,000, Deduct	-7.44	
		For >2,000 To 5,000, Deduct	-11.46	
		For >5,000, Deduct	-17.16	
33 01 30 71-0048	LF	78" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	164.91	
		For Up To 75, Add	35.08	
		For >75 To 150, Add	16.49	
		For >500 To 1,000, Deduct	-4.14	
		For >1,000 To 2,000, Deduct	-8.06	
		For >2,000 To 5,000, Deduct	-12.41	
		For >5,000, Deduct	-18.59	
33 01 30 71-0049	LF	84" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	177.60	
		For Up To 75, Add	37.78	
		For >75 To 150, Add	17.76	
		For >500 To 1,000, Deduct	-4.45	
		For >1,000 To 2,000, Deduct	-8.68	
		For >2,000 To 5,000, Deduct	-13.36	
		For >5,000, Deduct	-20.02	
33 01 30 71-0050	LF	90" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	190.28	
		For Up To 75, Add	40.47	
		For >75 To 150, Add	19.03	
		For >500 To 1,000, Deduct	-4.77	
		For >1,000 To 2,000, Deduct	-9.30	
		For >2,000 To 5,000, Deduct	-14.32	
		For >5,000, Deduct	-21.45	
33 01 30 71-0051	LF	96" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	202.97	
		For Up To 75, Add	43.17	
		For >75 To 150, Add	20.30	
		For >500 To 1,000, Deduct	-5.09	
		For >1,000 To 2,000, Deduct	-9.92	
		For >2,000 To 5,000, Deduct	-15.27	
		For >5,000, Deduct	-22.88	
33 01 30 71-0052	LF	102" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	215.65	
		For Up To 75, Add	45.87	
		For >75 To 150, Add	21.57	
		For >500 To 1,000, Deduct	-5.41	
		For >1,000 To 2,000, Deduct	-10.54	
		For >2,000 To 5,000, Deduct	-16.23	
		For >5,000, Deduct	-24.31	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0053 LF 108" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	228.34	
For Up To 75, Add	48.57	
For >75 To 150, Add	22.83	
For >500 To 1,000, Deduct	-5.73	
For >1,000 To 2,000, Deduct	-11.17	
For >2,000 To 5,000, Deduct	-17.18	
For >5,000, Deduct	-25.74	
33 01 30 71-0054 LF 114" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	241.02	
For Up To 75, Add	51.27	
For >75 To 150, Add	24.10	
For >500 To 1,000, Deduct	-6.05	
For >1,000 To 2,000, Deduct	-11.78	
For >2,000 To 5,000, Deduct	-18.14	
For >5,000, Deduct	-27.16	
33 01 30 71-0055 LF 120" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane	253.71	
For Up To 75, Add	53.97	
For >75 To 150, Add	25.37	
For >500 To 1,000, Deduct	-6.36	
For >1,000 To 2,000, Deduct	-12.41	
For >2,000 To 5,000, Deduct	-19.09	
For >5,000, Deduct	-28.60	
33 01 30 71-0056 SF Structure Lining, Spray Applied With 150 mil Structural Polyurethane	8.08	
33 01 30 71-0057 Lining Pipe, Spray Applied With 200 mil Structural Polyurethane (33 01 30 71-0020)		
Note: Two part structural polyurethane.		
33 01 30 71-0058 LF 36" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	96.00	
For Up To 75, Add	20.22	
For >75 To 150, Add	9.60	
For >500 To 1,000, Deduct	-2.33	
For >1,000 To 2,000, Deduct	-4.55	
For >2,000 To 5,000, Deduct	-6.98	
For >5,000, Deduct	-10.62	
33 01 30 71-0059 LF 42" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	112.00	
For Up To 75, Add	23.59	
For >75 To 150, Add	11.20	
For >500 To 1,000, Deduct	-2.72	
For >1,000 To 2,000, Deduct	-5.31	
For >2,000 To 5,000, Deduct	-8.15	
For >5,000, Deduct	-12.39	
33 01 30 71-0060 LF 48" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	128.01	
For Up To 75, Add	26.96	
For >75 To 150, Add	12.80	
For >500 To 1,000, Deduct	-3.10	
For >1,000 To 2,000, Deduct	-6.07	
For >2,000 To 5,000, Deduct	-9.31	
For >5,000, Deduct	-14.16	
33 01 30 71-0061 LF 54" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	144.01	
For Up To 75, Add	30.33	
For >75 To 150, Add	14.40	
For >500 To 1,000, Deduct	-3.49	
For >1,000 To 2,000, Deduct	-6.83	
For >2,000 To 5,000, Deduct	-10.47	
For >5,000, Deduct	-15.93	
33 01 30 71-0062 LF 60" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	160.00	
For Up To 75, Add	33.70	
For >75 To 150, Add	16.00	
For >500 To 1,000, Deduct	-3.88	
For >1,000 To 2,000, Deduct	-7.59	
For >2,000 To 5,000, Deduct	-11.64	
For >5,000, Deduct	-17.70	
33 01 30 71-0063 LF 66" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	176.01	
For Up To 75, Add	37.07	
For >75 To 150, Add	17.60	
For >500 To 1,000, Deduct	-4.27	
For >1,000 To 2,000, Deduct	-8.35	
For >2,000 To 5,000, Deduct	-12.80	
For >5,000, Deduct	-19.47	
33 01 30 71-0064 LF 72" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	192.02	
For Up To 75, Add	40.44	
For >75 To 150, Add	19.20	
For >500 To 1,000, Deduct	-4.66	
For >1,000 To 2,000, Deduct	-9.11	
For >2,000 To 5,000, Deduct	-13.97	
For >5,000, Deduct	-21.24	
33 01 30 71-0065 LF 78" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	208.00	
For Up To 75, Add	43.81	
For >75 To 150, Add	20.80	
For >500 To 1,000, Deduct	-5.04	
For >1,000 To 2,000, Deduct	-9.86	
For >2,000 To 5,000, Deduct	-15.13	
For >5,000, Deduct	-23.01	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0066	LF	84" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	224.02	
		For Up To 75, Add	47.18	
		For >75 To 150, Add	22.40	
		For >500 To 1,000, Deduct	-5.43	
		For >1,000 To 2,000, Deduct	-10.62	
		For >2,000 To 5,000, Deduct	-16.29	
		For >5,000, Deduct	-24.78	
33 01 30 71-0067	LF	90" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	240.02	
		For Up To 75, Add	50.55	
		For >75 To 150, Add	24.00	
		For >500 To 1,000, Deduct	-5.82	
		For >1,000 To 2,000, Deduct	-11.38	
		For >2,000 To 5,000, Deduct	-17.46	
		For >5,000, Deduct	-26.55	
33 01 30 71-0068	LF	96" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	256.02	
		For Up To 75, Add	53.92	
		For >75 To 150, Add	25.60	
		For >500 To 1,000, Deduct	-6.21	
		For >1,000 To 2,000, Deduct	-12.14	
		For >2,000 To 5,000, Deduct	-18.62	
		For >5,000, Deduct	-28.32	
33 01 30 71-0069	LF	102" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	272.02	
		For Up To 75, Add	57.29	
		For >75 To 150, Add	27.20	
		For >500 To 1,000, Deduct	-6.59	
		For >1,000 To 2,000, Deduct	-12.90	
		For >2,000 To 5,000, Deduct	-19.78	
		For >5,000, Deduct	-30.09	
33 01 30 71-0070	LF	108" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	288.01	
		For Up To 75, Add	60.66	
		For >75 To 150, Add	28.80	
		For >500 To 1,000, Deduct	-6.98	
		For >1,000 To 2,000, Deduct	-13.66	
		For >2,000 To 5,000, Deduct	-20.95	
		For >5,000, Deduct	-31.86	
33 01 30 71-0071	LF	114" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	304.02	
		For Up To 75, Add	64.03	
		For >75 To 150, Add	30.40	
		For >500 To 1,000, Deduct	-7.37	
		For >1,000 To 2,000, Deduct	-14.42	
		For >2,000 To 5,000, Deduct	-22.11	
		For >5,000, Deduct	-33.63	
33 01 30 71-0072	LF	120" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane	320.02	
		For Up To 75, Add	67.40	
		For >75 To 150, Add	32.00	
		For >500 To 1,000, Deduct	-7.76	
		For >1,000 To 2,000, Deduct	-15.18	
		For >2,000 To 5,000, Deduct	-23.27	
		For >5,000, Deduct	-35.40	
33 01 30 71-0073	SF	Structure Lining, Spray Applied With 200 mil Structural Polyurethane	10.19	
33 01 30 71-0074		Lining Pipe, Spray Applied With 250 mil Structural Polyurethane (33 01 30 71-0020)		
		Note: Two part structural polyurethane.		
33 01 30 71-0075	LF	36" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	115.98	
		For Up To 75, Add	24.27	
		For >75 To 150, Add	11.60	
		For >500 To 1,000, Deduct	-2.75	
		For >1,000 To 2,000, Deduct	-5.39	
		For >2,000 To 5,000, Deduct	-8.24	
		For >5,000, Deduct	-12.67	
33 01 30 71-0076	LF	42" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	135.32	
		For Up To 75, Add	28.31	
		For >75 To 150, Add	13.53	
		For >500 To 1,000, Deduct	-3.21	
		For >1,000 To 2,000, Deduct	-6.29	
		For >2,000 To 5,000, Deduct	-9.62	
		For >5,000, Deduct	-14.78	
33 01 30 71-0077	LF	48" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	154.65	
		For Up To 75, Add	32.36	
		For >75 To 150, Add	15.47	
		For >500 To 1,000, Deduct	-3.66	
		For >1,000 To 2,000, Deduct	-7.19	
		For >2,000 To 5,000, Deduct	-10.99	
		For >5,000, Deduct	-16.89	
33 01 30 71-0078	LF	54" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	173.98	
		For Up To 75, Add	36.40	
		For >75 To 150, Add	17.40	
		For >500 To 1,000, Deduct	-4.12	
		For >1,000 To 2,000, Deduct	-8.08	
		For >2,000 To 5,000, Deduct	-12.37	
		For >5,000, Deduct	-19.01	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0079 LF 60" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	193.32	
For Up To 75, Add	40.45	
For >75 To 150, Add	19.33	
For >500 To 1,000, Deduct	-4.58	
For >1,000 To 2,000, Deduct	-8.98	
For >2,000 To 5,000, Deduct	-13.74	
For >5,000, Deduct	-21.12	
33 01 30 71-0080 LF 66" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	212.64	
For Up To 75, Add	44.49	
For >75 To 150, Add	21.26	
For >500 To 1,000, Deduct	-5.04	
For >1,000 To 2,000, Deduct	-9.88	
For >2,000 To 5,000, Deduct	-15.12	
For >5,000, Deduct	-23.23	
33 01 30 71-0081 LF 72" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	231.99	
For Up To 75, Add	48.54	
For >75 To 150, Add	23.20	
For >500 To 1,000, Deduct	-5.50	
For >1,000 To 2,000, Deduct	-10.78	
For >2,000 To 5,000, Deduct	-16.49	
For >5,000, Deduct	-25.34	
33 01 30 71-0082 LF 78" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	251.31	
For Up To 75, Add	52.58	
For >75 To 150, Add	25.13	
For >500 To 1,000, Deduct	-5.96	
For >1,000 To 2,000, Deduct	-11.68	
For >2,000 To 5,000, Deduct	-17.87	
For >5,000, Deduct	-27.45	
33 01 30 71-0083 LF 84" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	270.64	
For Up To 75, Add	56.63	
For >75 To 150, Add	27.06	
For >500 To 1,000, Deduct	-6.41	
For >1,000 To 2,000, Deduct	-12.58	
For >2,000 To 5,000, Deduct	-19.24	
For >5,000, Deduct	-29.56	
33 01 30 71-0084 LF 90" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	289.98	
For Up To 75, Add	60.68	
For >75 To 150, Add	29.00	
For >500 To 1,000, Deduct	-6.87	
For >1,000 To 2,000, Deduct	-13.47	
For >2,000 To 5,000, Deduct	-20.61	
For >5,000, Deduct	-31.68	
33 01 30 71-0085 LF 96" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	309.30	
For Up To 75, Add	64.72	
For >75 To 150, Add	30.93	
For >500 To 1,000, Deduct	-7.33	
For >1,000 To 2,000, Deduct	-14.37	
For >2,000 To 5,000, Deduct	-21.99	
For >5,000, Deduct	-33.79	
33 01 30 71-0086 LF 102" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	328.63	
For Up To 75, Add	68.76	
For >75 To 150, Add	32.86	
For >500 To 1,000, Deduct	-7.79	
For >1,000 To 2,000, Deduct	-15.27	
For >2,000 To 5,000, Deduct	-23.36	
For >5,000, Deduct	-35.90	
33 01 30 71-0087 LF 108" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	347.96	
For Up To 75, Add	72.81	
For >75 To 150, Add	34.80	
For >500 To 1,000, Deduct	-8.25	
For >1,000 To 2,000, Deduct	-16.17	
For >2,000 To 5,000, Deduct	-24.74	
For >5,000, Deduct	-38.01	
33 01 30 71-0088 LF 114" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	367.30	
For Up To 75, Add	76.85	
For >75 To 150, Add	36.73	
For >500 To 1,000, Deduct	-8.70	
For >1,000 To 2,000, Deduct	-17.07	
For >2,000 To 5,000, Deduct	-26.11	
For >5,000, Deduct	-40.12	
33 01 30 71-0089 LF 120" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane	386.63	
For Up To 75, Add	80.90	
For >75 To 150, Add	38.66	
For >500 To 1,000, Deduct	-9.16	
For >1,000 To 2,000, Deduct	-17.97	
For >2,000 To 5,000, Deduct	-27.48	
For >5,000, Deduct	-42.24	
33 01 30 71-0090 SF Structure Lining, Spray Applied With 250 mil Structural Polyurethane	12.31	

33 01 30 71-0091 Lining Pipe, Spray Applied With 300 mil Structural Polyurethane (33 01 30 71-0020)

Note: Two part structural polyurethane.



		Utilities	33	
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0092	LF	36" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	136.10	
		For Up To 75, Add	28.35	
		For >75 To 150, Add	13.61	
		For >500 To 1,000, Deduct	-3.17	
		For >1,000 To 2,000, Deduct	-6.23	
		For >2,000 To 5,000, Deduct	-9.52	
		For >5,000, Deduct	-14.74	
33 01 30 71-0093	LF	42" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	158.78	
		For Up To 75, Add	33.07	
		For >75 To 150, Add	15.88	
		For >500 To 1,000, Deduct	-3.70	
		For >1,000 To 2,000, Deduct	-7.27	
		For >2,000 To 5,000, Deduct	-11.11	
		For >5,000, Deduct	-17.19	
33 01 30 71-0094	LF	48" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	181.46	
		For Up To 75, Add	37.80	
		For >75 To 150, Add	18.15	
		For >500 To 1,000, Deduct	-4.23	
		For >1,000 To 2,000, Deduct	-8.31	
		For >2,000 To 5,000, Deduct	-12.69	
		For >5,000, Deduct	-19.65	
33 01 30 71-0095	LF	54" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	204.14	
		For Up To 75, Add	42.52	
		For >75 To 150, Add	20.41	
		For >500 To 1,000, Deduct	-4.76	
		For >1,000 To 2,000, Deduct	-9.35	
		For >2,000 To 5,000, Deduct	-14.28	
		For >5,000, Deduct	-22.11	
33 01 30 71-0096	LF	60" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	226.83	
		For Up To 75, Add	47.25	
		For >75 To 150, Add	22.68	
		For >500 To 1,000, Deduct	-5.29	
		For >1,000 To 2,000, Deduct	-10.39	
		For >2,000 To 5,000, Deduct	-15.87	
		For >5,000, Deduct	-24.56	
33 01 30 71-0097	LF	66" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	249.52	
		For Up To 75, Add	51.97	
		For >75 To 150, Add	24.95	
		For >500 To 1,000, Deduct	-5.82	
		For >1,000 To 2,000, Deduct	-11.43	
		For >2,000 To 5,000, Deduct	-17.45	
		For >5,000, Deduct	-27.02	
33 01 30 71-0098	LF	72" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	272.20	
		For Up To 75, Add	56.70	
		For >75 To 150, Add	27.22	
		For >500 To 1,000, Deduct	-6.35	
		For >1,000 To 2,000, Deduct	-12.47	
		For >2,000 To 5,000, Deduct	-19.04	
		For >5,000, Deduct	-29.48	
33 01 30 71-0099	LF	78" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	294.88	
		For Up To 75, Add	61.42	
		For >75 To 150, Add	29.49	
		For >500 To 1,000, Deduct	-6.88	
		For >1,000 To 2,000, Deduct	-13.51	
		For >2,000 To 5,000, Deduct	-20.63	
		For >5,000, Deduct	-31.93	
33 01 30 71-0100	LF	84" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	317.57	
		For Up To 75, Add	66.15	
		For >75 To 150, Add	31.76	
		For >500 To 1,000, Deduct	-7.40	
		For >1,000 To 2,000, Deduct	-14.55	
		For >2,000 To 5,000, Deduct	-22.21	
		For >5,000, Deduct	-34.39	
33 01 30 71-0101	LF	90" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	340.25	
		For Up To 75, Add	70.87	
		For >75 To 150, Add	34.03	
		For >500 To 1,000, Deduct	-7.93	
		For >1,000 To 2,000, Deduct	-15.58	
		For >2,000 To 5,000, Deduct	-23.80	
		For >5,000, Deduct	-36.85	
33 01 30 71-0102	LF	96" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	362.93	
		For Up To 75, Add	75.59	
		For >75 To 150, Add	36.29	
		For >500 To 1,000, Deduct	-8.46	
		For >1,000 To 2,000, Deduct	-16.62	
		For >2,000 To 5,000, Deduct	-25.39	
		For >5,000, Deduct	-39.30	
33 01 30 71-0103	LF	102" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	385.62	
		For Up To 75, Add	80.32	
		For >75 To 150, Add	38.56	
		For >500 To 1,000, Deduct	-8.99	
		For >1,000 To 2,000, Deduct	-17.66	
		For >2,000 To 5,000, Deduct	-26.97	
		For >5,000, Deduct	-41.76	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0104 LF 108" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	408.30	
For Up To 75, Add	85.04	
For >75 To 150, Add	40.83	
For >500 To 1,000, Deduct	-9.52	
For >1,000 To 2,000, Deduct	-18.70	
For >2,000 To 5,000, Deduct	-28.56	
For >5,000, Deduct	-44.21	
33 01 30 71-0105 LF 114" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	430.98	
For Up To 75, Add	89.77	
For >75 To 150, Add	43.10	
For >500 To 1,000, Deduct	-10.05	
For >1,000 To 2,000, Deduct	-19.74	
For >2,000 To 5,000, Deduct	-30.15	
For >5,000, Deduct	-46.67	
33 01 30 71-0106 LF 120" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane	453.66	
For Up To 75, Add	94.49	
For >75 To 150, Add	45.37	
For >500 To 1,000, Deduct	-10.58	
For >1,000 To 2,000, Deduct	-20.78	
For >2,000 To 5,000, Deduct	-31.73	
For >5,000, Deduct	-49.13	
33 01 30 71-0107 SF Structure Lining, Spray Applied With 300 mil Structural Polyurethane	14.44	
33 01 30 71-0108 Lining Pipe, Spray Applied With 400 mil Structural Polyurethane (33 01 30 71-0020)		
Note: Two part structural polyurethane.		
33 01 30 71-0109 LF 36" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	176.36	
For Up To 75, Add	36.53	
For >75 To 150, Add	17.64	
For >500 To 1,000, Deduct	-4.03	
For >1,000 To 2,000, Deduct	-7.93	
For >2,000 To 5,000, Deduct	-12.09	
For >5,000, Deduct	-18.89	
33 01 30 71-0110 LF 42" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	205.75	
For Up To 75, Add	42.61	
For >75 To 150, Add	20.58	
For >500 To 1,000, Deduct	-4.70	
For >1,000 To 2,000, Deduct	-9.25	
For >2,000 To 5,000, Deduct	-14.10	
For >5,000, Deduct	-22.04	
33 01 30 71-0111 LF 48" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	235.15	
For Up To 75, Add	48.70	
For >75 To 150, Add	23.52	
For >500 To 1,000, Deduct	-5.37	
For >1,000 To 2,000, Deduct	-10.58	
For >2,000 To 5,000, Deduct	-16.11	
For >5,000, Deduct	-25.19	
33 01 30 71-0112 LF 54" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	264.53	
For Up To 75, Add	54.79	
For >75 To 150, Add	26.45	
For >500 To 1,000, Deduct	-6.04	
For >1,000 To 2,000, Deduct	-11.90	
For >2,000 To 5,000, Deduct	-18.13	
For >5,000, Deduct	-28.33	
33 01 30 71-0113 LF 60" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	293.92	
For Up To 75, Add	60.87	
For >75 To 150, Add	29.39	
For >500 To 1,000, Deduct	-6.71	
For >1,000 To 2,000, Deduct	-13.22	
For >2,000 To 5,000, Deduct	-20.14	
For >5,000, Deduct	-31.48	
33 01 30 71-0114 LF 66" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	323.33	
For Up To 75, Add	66.96	
For >75 To 150, Add	32.33	
For >500 To 1,000, Deduct	-7.39	
For >1,000 To 2,000, Deduct	-14.54	
For >2,000 To 5,000, Deduct	-22.16	
For >5,000, Deduct	-34.63	
33 01 30 71-0115 LF 72" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	352.71	
For Up To 75, Add	73.05	
For >75 To 150, Add	35.27	
For >500 To 1,000, Deduct	-8.06	
For >1,000 To 2,000, Deduct	-15.86	
For >2,000 To 5,000, Deduct	-24.17	
For >5,000, Deduct	-37.78	
33 01 30 71-0116 LF 78" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	382.11	
For Up To 75, Add	79.14	
For >75 To 150, Add	38.21	
For >500 To 1,000, Deduct	-8.73	
For >1,000 To 2,000, Deduct	-17.19	
For >2,000 To 5,000, Deduct	-26.19	
For >5,000, Deduct	-40.93	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0117	LF	84" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	411.50	
		For Up To 75, Add	85.23	
		For >75 To 150, Add	41.15	
		For >500 To 1,000, Deduct	-9.40	
		For >1,000 To 2,000, Deduct	-18.51	
		For >2,000 To 5,000, Deduct	-28.20	
		For >5,000, Deduct	-44.08	
33 01 30 71-0118	LF	90" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	440.90	
		For Up To 75, Add	91.31	
		For >75 To 150, Add	44.09	
		For >500 To 1,000, Deduct	-10.07	
		For >1,000 To 2,000, Deduct	-19.83	
		For >2,000 To 5,000, Deduct	-30.21	
		For >5,000, Deduct	-47.22	
33 01 30 71-0119	LF	96" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	470.28	
		For Up To 75, Add	97.40	
		For >75 To 150, Add	47.03	
		For >500 To 1,000, Deduct	-10.74	
		For >1,000 To 2,000, Deduct	-21.15	
		For >2,000 To 5,000, Deduct	-32.23	
		For >5,000, Deduct	-50.37	
33 01 30 71-0120	LF	102" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	499.68	
		For Up To 75, Add	103.49	
		For >75 To 150, Add	49.97	
		For >500 To 1,000, Deduct	-11.41	
		For >1,000 To 2,000, Deduct	-22.47	
		For >2,000 To 5,000, Deduct	-34.24	
		For >5,000, Deduct	-53.52	
33 01 30 71-0121	LF	108" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	529.07	
		For Up To 75, Add	109.57	
		For >75 To 150, Add	52.91	
		For >500 To 1,000, Deduct	-12.09	
		For >1,000 To 2,000, Deduct	-23.80	
		For >2,000 To 5,000, Deduct	-36.26	
		For >5,000, Deduct	-56.67	
33 01 30 71-0122	LF	114" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	558.47	
		For Up To 75, Add	115.66	
		For >75 To 150, Add	55.85	
		For >500 To 1,000, Deduct	-12.76	
		For >1,000 To 2,000, Deduct	-25.12	
		For >2,000 To 5,000, Deduct	-38.27	
		For >5,000, Deduct	-59.82	
33 01 30 71-0123	LF	120" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane	587.85	
		For Up To 75, Add	121.75	
		For >75 To 150, Add	58.79	
		For >500 To 1,000, Deduct	-13.43	
		For >1,000 To 2,000, Deduct	-26.44	
		For >2,000 To 5,000, Deduct	-40.28	
		For >5,000, Deduct	-62.96	
33 01 30 71-0124	SF	Structure Lining, Spray Applied With 400 mil Structural Polyurethane	18.71	
33 01 30 71-0125		Lining Pipe, Spray Applied With 500 mil Structural Polyurethane (33 01 30 71-0020)		
		Note: Two part structural polyurethane.		
33 01 30 71-0126	LF	36" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	216.97	
		For Up To 75, Add	44.79	
		For >75 To 150, Add	21.70	
		For >500 To 1,000, Deduct	-4.90	
		For >1,000 To 2,000, Deduct	-9.65	
		For >2,000 To 5,000, Deduct	-14.69	
		For >5,000, Deduct	-23.09	
33 01 30 71-0127	LF	42" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	253.13	
		For Up To 75, Add	52.25	
		For >75 To 150, Add	25.31	
		For >500 To 1,000, Deduct	-5.71	
		For >1,000 To 2,000, Deduct	-11.26	
		For >2,000 To 5,000, Deduct	-17.14	
		For >5,000, Deduct	-26.94	
33 01 30 71-0128	LF	48" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	289.28	
		For Up To 75, Add	59.71	
		For >75 To 150, Add	28.93	
		For >500 To 1,000, Deduct	-6.53	
		For >1,000 To 2,000, Deduct	-12.87	
		For >2,000 To 5,000, Deduct	-19.59	
		For >5,000, Deduct	-30.79	
33 01 30 71-0129	LF	54" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	325.44	
		For Up To 75, Add	67.18	
		For >75 To 150, Add	32.54	
		For >500 To 1,000, Deduct	-7.34	
		For >1,000 To 2,000, Deduct	-14.48	
		For >2,000 To 5,000, Deduct	-22.03	
		For >5,000, Deduct	-34.63	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0130 LF 60" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	361.60	
For Up To 75, Add	74.64	
For >75 To 150, Add	36.16	
For >500 To 1,000, Deduct	-8.16	
For >1,000 To 2,000, Deduct	-16.09	
For >2,000 To 5,000, Deduct	-24.48	
For >5,000, Deduct	-38.48	
33 01 30 71-0131 LF 66" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	397.76	
For Up To 75, Add	82.11	
For >75 To 150, Add	39.78	
For >500 To 1,000, Deduct	-8.98	
For >1,000 To 2,000, Deduct	-17.70	
For >2,000 To 5,000, Deduct	-26.93	
For >5,000, Deduct	-42.33	
33 01 30 71-0132 LF 72" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	433.94	
For Up To 75, Add	89.57	
For >75 To 150, Add	43.39	
For >500 To 1,000, Deduct	-9.79	
For >1,000 To 2,000, Deduct	-19.31	
For >2,000 To 5,000, Deduct	-29.38	
For >5,000, Deduct	-46.18	
33 01 30 71-0133 LF 78" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	470.09	
For Up To 75, Add	97.04	
For >75 To 150, Add	47.01	
For >500 To 1,000, Deduct	-10.61	
For >1,000 To 2,000, Deduct	-20.92	
For >2,000 To 5,000, Deduct	-31.83	
For >5,000, Deduct	-50.03	
33 01 30 71-0134 LF 84" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	506.25	
For Up To 75, Add	104.50	
For >75 To 150, Add	50.63	
For >500 To 1,000, Deduct	-11.43	
For >1,000 To 2,000, Deduct	-22.53	
For >2,000 To 5,000, Deduct	-34.28	
For >5,000, Deduct	-53.88	
33 01 30 71-0135 LF 90" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	542.41	
For Up To 75, Add	111.96	
For >75 To 150, Add	54.24	
For >500 To 1,000, Deduct	-12.24	
For >1,000 To 2,000, Deduct	-24.13	
For >2,000 To 5,000, Deduct	-36.72	
For >5,000, Deduct	-57.72	
33 01 30 71-0136 LF 96" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	578.57	
For Up To 75, Add	119.43	
For >75 To 150, Add	57.86	
For >500 To 1,000, Deduct	-13.06	
For >1,000 To 2,000, Deduct	-25.74	
For >2,000 To 5,000, Deduct	-39.17	
For >5,000, Deduct	-61.57	
33 01 30 71-0137 LF 102" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	614.73	
For Up To 75, Add	126.89	
For >75 To 150, Add	61.47	
For >500 To 1,000, Deduct	-13.87	
For >1,000 To 2,000, Deduct	-27.35	
For >2,000 To 5,000, Deduct	-41.62	
For >5,000, Deduct	-65.42	
33 01 30 71-0138 LF 108" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	650.88	
For Up To 75, Add	134.35	
For >75 To 150, Add	65.09	
For >500 To 1,000, Deduct	-14.69	
For >1,000 To 2,000, Deduct	-28.96	
For >2,000 To 5,000, Deduct	-44.07	
For >5,000, Deduct	-69.27	
33 01 30 71-0139 LF 114" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	687.04	
For Up To 75, Add	141.82	
For >75 To 150, Add	68.70	
For >500 To 1,000, Deduct	-15.50	
For >1,000 To 2,000, Deduct	-30.57	
For >2,000 To 5,000, Deduct	-46.51	
For >5,000, Deduct	-73.11	
33 01 30 71-0140 LF 120" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane	723.22	
For Up To 75, Add	149.29	
For >75 To 150, Add	72.32	
For >500 To 1,000, Deduct	-16.32	
For >1,000 To 2,000, Deduct	-32.18	
For >2,000 To 5,000, Deduct	-48.96	
For >5,000, Deduct	-76.97	
33 01 30 71-0141 SF Structure Lining, Spray Applied With 500 mil Structural Polyurethane	23.01	

33 01 30 72 Cured-in-Place Pipe Lining (33 01 30)**33 01 30 72-0001 Cured-In-Place Pipe (CIPP) Relining Underground Pipelines (33 01 30 72)**

Note: Excludes CCTV inspection and sewer cleaning. See CSI section 33 01 30 11-0000 for CCTV inspection, 33 01 30 41-0002 for sewer cleaning.

33 01 30 72-0002 Cured In-Place Pipe (CIPP) Lining Set-Up And Reinsertion (33 01 30 72-0001)



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0003	EA	Initial Set Up And Final Equipment Removal For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP).....	1,627.00	
33 01 30 72-0004	EA	Initial Set Up And Final Equipment Removal For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP).....	2,711.66	
33 01 30 72-0005	EA	Initial Set Up And Final Equipment Removal For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP).....	4,067.49	
33 01 30 72-0006	EA	Initial Set Up And Final Equipment Removal For Relining > 48" Underground Pipelines Cured In-Place Pipe (CIPP).....	5,423.32	
33 01 30 72-0007	EA	Move And Reset Up At Different Access/Location For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP).....	813.50	
33 01 30 72-0008	EA	Move And Reset Up At Different Access/Location For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP).....	1,355.83	
33 01 30 72-0009	EA	Move And Reset Up At Different Access/Location For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP).....	1,694.78	
33 01 30 72-0010	EA	Move And Reset Up At Different Access/Location For Relining > 48" Underground Pipelines Cured In-Place Pipe (CIPP).....	2,169.33	
33 01 30 72-0011	EA	Mixing Truck And Refrigeration For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP)..... Note: Need to mix wet material in bag prior to installation.	1,355.83	
33 01 30 72-0012	EA	Mixing Truck And Refrigeration For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP)..... Note: Need to mix wet material in bag prior to installation.	3,253.99	
33 01 30 72-0013	EA	Mixing Truck And Refrigeration For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP)..... Note: Need to mix wet material in bag prior to installation.	5,423.32	
33 01 30 72-0014	EA	Mixing Truck And Refrigeration For Relining >48" Underground Pipelines Cured In-Place Pipe (CIPP)..... Note: Need to mix wet material in bag prior to installation.	8,134.98	
33 01 30 72-0015		Lining Pipe With Polyester Resin Impregnated Cured In-Place Pipe (CIPP) (33 01 30 72-0001) Note: Cured in-place thermosetting resin pipe and resin impregnated tube. Excludes video camera inspection, culvert cleaning and grouting. Use round equivalent pipe sizes for elliptical, oval or arched pipe.		
33 01 30 72-0016		4.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0017	LF	4.5mm Lining 2" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	23.06	
		For Vinlyester Resin, Add	6.17	
		For Epoxy Resin, Add	0.73	
		For Up To >10, Add	47.13	
		For >10 To 25, Add	37.81	
		For >25 To 50, Add	23.12	
		For >50 To 100, Add	11.56	
		For >500 To 1,000, Deduct	-1.51	
		For >1,000 To 2,000, Deduct	-2.44	
		For >2,000 To 5,000, Deduct	-4.62	
		For >5,000, Deduct	-7.46	
33 01 30 72-0018	LF	4.5mm Lining 3" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	27.90	
		For Vinlyester Resin, Add	9.56	
		For Epoxy Resin, Add	1.13	
		For Up To >10, Add	49.55	
		For >10 To 25, Add	39.02	
		For >25 To 50, Add	24.09	
		For >50 To 100, Add	12.05	
		For >500 To 1,000, Deduct	-1.75	
		For >1,000 To 2,000, Deduct	-2.80	
		For >2,000 To 5,000, Deduct	-5.20	
		For >5,000, Deduct	-8.43	
33 01 30 72-0019	LF	4.5mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	32.74	
		For Vinlyester Resin, Add	12.95	
		For Epoxy Resin, Add	1.53	
		For Up To >10, Add	51.97	
		For >10 To 25, Add	40.23	
		For >25 To 50, Add	25.06	
		For >50 To 100, Add	12.53	
		For >500 To 1,000, Deduct	-1.99	
		For >1,000 To 2,000, Deduct	-3.17	
		For >2,000 To 5,000, Deduct	-5.78	
		For >5,000, Deduct	-9.40	
33 01 30 72-0020	LF	4.5mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	43.78	
		For Vinlyester Resin, Add	19.73	
		For Epoxy Resin, Add	2.32	
		For Up To >10, Add	60.89	
		For >10 To 25, Add	46.05	
		For >25 To 50, Add	29.04	
		For >50 To 100, Add	14.52	
		For >500 To 1,000, Deduct	-2.58	
		For >1,000 To 2,000, Deduct	-4.06	
		For >2,000 To 5,000, Deduct	-7.28	
		For >5,000, Deduct	-11.88	
33 01 30 72-0021	LF	4.5mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	54.80	
		For Vinlyester Resin, Add	26.50	
		For Epoxy Resin, Add	3.12	
		For Up To >10, Add	69.78	
		For >10 To 25, Add	51.84	
		For >25 To 50, Add	33.00	
		For >50 To 100, Add	16.50	
		For >500 To 1,000, Deduct	-3.16	
		For >1,000 To 2,000, Deduct	-4.96	
		For >2,000 To 5,000, Deduct	-8.78	
		For >5,000, Deduct	-14.35	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0022 6mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0023 LF 6mm Lining 3" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	32.07	
For Vinylster Resin, Add	12.48	
For Epoxy Resin, Add	1.47	
For Up To >10, Add	51.64	
For >10 To 25, Add	40.06	
For >25 To 50, Add	24.93	
For >50 To 100, Add	12.46	
For >500 To 1,000, Deduct	-1.96	
For >1,000 To 2,000, Deduct	-3.12	
For >2,000 To 5,000, Deduct	-5.70	
For >5,000, Deduct	-9.26	
33 01 30 72-0024 LF 6mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	38.52	
For Vinylster Resin, Add	17.00	
For Epoxy Resin, Add	2.00	
For Up To >10, Add	54.86	
For >10 To 25, Add	41.67	
For >25 To 50, Add	26.22	
For >50 To 100, Add	13.11	
For >500 To 1,000, Deduct	-2.28	
For >1,000 To 2,000, Deduct	-3.60	
For >2,000 To 5,000, Deduct	-6.47	
For >5,000, Deduct	-10.55	
33 01 30 72-0025 LF 6mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	52.79	
For Vinylster Resin, Add	26.03	
For Epoxy Resin, Add	3.07	
For Up To >10, Add	65.40	
For >10 To 25, Add	48.30	
For >25 To 50, Add	30.84	
For >50 To 100, Add	15.42	
For >500 To 1,000, Deduct	-3.03	
For >1,000 To 2,000, Deduct	-4.74	
For >2,000 To 5,000, Deduct	-8.36	
For >5,000, Deduct	-13.68	
33 01 30 72-0026 LF 6mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	67.04	
For Vinylster Resin, Add	35.06	
For Epoxy Resin, Add	4.13	
For Up To >10, Add	75.90	
For >10 To 25, Add	54.90	
For >25 To 50, Add	35.44	
For >50 To 100, Add	17.72	
For >500 To 1,000, Deduct	-3.78	
For >1,000 To 2,000, Deduct	-5.88	
For >2,000 To 5,000, Deduct	-10.25	
For >5,000, Deduct	-16.80	
33 01 30 72-0027 LF 6mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	81.43	
For Vinylster Resin, Add	44.09	
For Epoxy Resin, Add	5.20	
For Up To >10, Add	86.82	
For >10 To 25, Add	61.85	
For >25 To 50, Add	40.26	
For >50 To 100, Add	20.13	
For >500 To 1,000, Deduct	-4.53	
For >1,000 To 2,000, Deduct	-7.03	
For >2,000 To 5,000, Deduct	-12.17	
For >5,000, Deduct	-19.97	
33 01 30 72-0028 LF 6mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	96.24	
For Vinylster Resin, Add	53.13	
For Epoxy Resin, Add	6.26	
For Up To >10, Add	98.97	
For >10 To 25, Add	69.83	
For >25 To 50, Add	45.69	
For >50 To 100, Add	22.85	
For >500 To 1,000, Deduct	-5.32	
For >1,000 To 2,000, Deduct	-8.24	
For >2,000 To 5,000, Deduct	-14.19	
For >5,000, Deduct	-23.32	
33 01 30 72-0029 7.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0030 LF 7.5mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	44.12	
For Vinylster Resin, Add	20.92	
For Epoxy Resin, Add	2.47	
For Up To >10, Add	57.66	
For >10 To 25, Add	43.07	
For >25 To 50, Add	27.34	
For >50 To 100, Add	13.67	
For >500 To 1,000, Deduct	-2.56	
For >1,000 To 2,000, Deduct	-4.02	
For >2,000 To 5,000, Deduct	-7.15	
For >5,000, Deduct	-11.67	



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		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0031	LF		7.5mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	61.60	
			For Vinlyester Resin, Add	32.20	
			For Epoxy Resin, Add	3.80	
			For Up To >10, Add	69.80	
			For >10 To 25, Add	50.50	
			For >25 To 50, Add	32.60	
			For >50 To 100, Add	16.30	
			For >500 To 1,000, Deduct	-3.47	
			For >1,000 To 2,000, Deduct	-5.40	
			For >2,000 To 5,000, Deduct	-9.42	
			For >5,000, Deduct	-15.44	
33 01 30 72-0032	LF		7.5mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	79.09	
			For Vinlyester Resin, Add	43.50	
			For Epoxy Resin, Add	5.13	
			For Up To >10, Add	81.92	
			For >10 To 25, Add	57.91	
			For >25 To 50, Add	37.85	
			For >50 To 100, Add	18.93	
			For >500 To 1,000, Deduct	-4.38	
			For >1,000 To 2,000, Deduct	-6.78	
			For >2,000 To 5,000, Deduct	-11.69	
			For >5,000, Deduct	-19.21	
33 01 30 72-0033	LF		7.5mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	96.70	
			For Vinlyester Resin, Add	54.78	
			For Epoxy Resin, Add	6.46	
			For Up To >10, Add	94.45	
			For >10 To 25, Add	65.67	
			For >25 To 50, Add	43.31	
			For >50 To 100, Add	21.66	
			For >500 To 1,000, Deduct	-5.30	
			For >1,000 To 2,000, Deduct	-8.17	
			For >2,000 To 5,000, Deduct	-14.00	
			For >5,000, Deduct	-23.03	
33 01 30 72-0034	LF		7.5mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	114.73	
			For Vinlyester Resin, Add	66.07	
			For Epoxy Resin, Add	7.79	
			For Up To >10, Add	108.22	
			For >10 To 25, Add	74.45	
			For >25 To 50, Add	49.39	
			For >50 To 100, Add	24.69	
			For >500 To 1,000, Deduct	-6.25	
			For >1,000 To 2,000, Deduct	-9.62	
			For >2,000 To 5,000, Deduct	-16.41	
			For >5,000, Deduct	-27.01	
33 01 30 72-0035	LF		7.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	141.64	
			For Vinlyester Resin, Add	83.01	
			For Epoxy Resin, Add	9.78	
			For Up To >10, Add	128.45	
			For >10 To 25, Add	87.27	
			For >25 To 50, Add	58.29	
			For >50 To 100, Add	29.15	
			For >500 To 1,000, Deduct	-7.66	
			For >1,000 To 2,000, Deduct	-11.78	
			For >2,000 To 5,000, Deduct	-19.99	
			For >5,000, Deduct	-32.94	
33 01 30 72-0036	LF		7.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	168.81	
			For Vinlyester Resin, Add	99.95	
			For Epoxy Resin, Add	11.78	
			For Up To >10, Add	149.48	
			For >10 To 25, Add	100.77	
			For >25 To 50, Add	67.60	
			For >50 To 100, Add	33.80	
			For >500 To 1,000, Deduct	-9.09	
			For >1,000 To 2,000, Deduct	-13.96	
			For >2,000 To 5,000, Deduct	-23.64	
			For >5,000, Deduct	-38.97	
33 01 30 72-0037			9mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0038	LF		9mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	70.23	
			For Vinlyester Resin, Add	38.24	
			For Epoxy Resin, Add	4.51	
			For Up To >10, Add	74.12	
			For >10 To 25, Add	52.66	
			For >25 To 50, Add	34.33	
			For >50 To 100, Add	17.16	
			For >500 To 1,000, Deduct	-3.90	
			For >1,000 To 2,000, Deduct	-6.05	
			For >2,000 To 5,000, Deduct	-10.46	
			For >5,000, Deduct	-17.17	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0039 LF 9mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	90.94	
For Vinlyester Resin, Add	51.79	
For Epoxy Resin, Add	6.10	
For Up To >10, Add	87.85	
For >10 To 25, Add	60.87	
For >25 To 50, Add	40.22	
For >50 To 100, Add	20.11	
For >500 To 1,000, Deduct	-4.97	
For >1,000 To 2,000, Deduct	-7.67	
For >2,000 To 5,000, Deduct	-13.12	
For >5,000, Deduct	-21.58	
33 01 30 72-0040 LF 9mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	111.79	
For Vinlyester Resin, Add	65.35	
For Epoxy Resin, Add	7.70	
For Up To >10, Add	102.00	
For >10 To 25, Add	69.44	
For >25 To 50, Add	46.33	
For >50 To 100, Add	23.17	
For >500 To 1,000, Deduct	-6.05	
For >1,000 To 2,000, Deduct	-9.31	
For >2,000 To 5,000, Deduct	-15.81	
For >5,000, Deduct	-26.05	
33 01 30 72-0041 LF 9mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	133.04	
For Vinlyester Resin, Add	78.89	
For Epoxy Resin, Add	9.30	
For Up To >10, Add	117.37	
For >10 To 25, Add	79.03	
For >25 To 50, Add	53.05	
For >50 To 100, Add	26.53	
For >500 To 1,000, Deduct	-7.16	
For >1,000 To 2,000, Deduct	-11.00	
For >2,000 To 5,000, Deduct	-18.61	
For >5,000, Deduct	-30.68	
33 01 30 72-0042 LF 9mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	164.78	
For Vinlyester Resin, Add	99.21	
For Epoxy Resin, Add	11.69	
For Up To >10, Add	140.02	
For >10 To 25, Add	93.06	
For >25 To 50, Add	62.92	
For >50 To 100, Add	31.46	
For >500 To 1,000, Deduct	-8.82	
For >1,000 To 2,000, Deduct	-13.51	
For >2,000 To 5,000, Deduct	-22.77	
For >5,000, Deduct	-37.57	
33 01 30 72-0043 LF 9mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	196.79	
For Vinlyester Resin, Add	119.53	
For Epoxy Resin, Add	14.09	
For Up To >10, Add	163.47	
For >10 To 25, Add	107.77	
For >25 To 50, Add	73.20	
For >50 To 100, Add	36.60	
For >500 To 1,000, Deduct	-10.49	
For >1,000 To 2,000, Deduct	-16.06	
For >2,000 To 5,000, Deduct	-27.00	
For >5,000, Deduct	-44.56	
33 01 30 72-0044 LF 9mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	227.99	
For Vinlyester Resin, Add	139.85	
For Epoxy Resin, Add	16.48	
For Up To >10, Add	184.50	
For >10 To 25, Add	120.45	
For >25 To 50, Add	82.26	
For >50 To 100, Add	41.13	
For >500 To 1,000, Deduct	-12.10	
For >1,000 To 2,000, Deduct	-18.51	
For >2,000 To 5,000, Deduct	-31.02	
For >5,000, Deduct	-51.24	
33 01 30 72-0045 LF 9mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	259.61	
For Vinlyester Resin, Add	160.18	
For Epoxy Resin, Add	18.88	
For Up To >10, Add	206.76	
For >10 To 25, Add	134.16	
For >25 To 50, Add	91.94	
For >50 To 100, Add	45.97	
For >500 To 1,000, Deduct	-13.75	
For >1,000 To 2,000, Deduct	-21.01	
For >2,000 To 5,000, Deduct	-35.15	
For >5,000, Deduct	-58.08	

33 01 30 72-0046 10.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0047	LF		10.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	187.74	
			For Vinlyester Resin, Add	115.28	
			For Epoxy Resin, Add	13.59	
			For Up To >10, Add	151.50	
			For >10 To 25, Add	98.80	
			For >25 To 50, Add	67.51	
			For >50 To 100, Add	33.76	
			For >500 To 1,000, Deduct	-9.96	
			For >1,000 To 2,000, Deduct	-15.23	
			For >2,000 To 5,000, Deduct	-25.53	
			For >5,000, Deduct	-42.16	
33 01 30 72-0048	LF		10.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	224.58	
			For Vinlyester Resin, Add	138.99	
			For Epoxy Resin, Add	16.38	
			For Up To >10, Add	177.37	
			For >10 To 25, Add	114.71	
			For >25 To 50, Add	78.76	
			For >50 To 100, Add	39.38	
			For >500 To 1,000, Deduct	-11.88	
			For >1,000 To 2,000, Deduct	-18.15	
			For >2,000 To 5,000, Deduct	-30.33	
			For >5,000, Deduct	-50.12	
33 01 30 72-0049	LF		10.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	260.63	
			For Vinlyester Resin, Add	162.70	
			For Epoxy Resin, Add	19.18	
			For Up To >10, Add	200.82	
			For >10 To 25, Add	128.61	
			For >25 To 50, Add	88.79	
			For >50 To 100, Add	44.39	
			For >500 To 1,000, Deduct	-13.74	
			For >1,000 To 2,000, Deduct	-20.96	
			For >2,000 To 5,000, Deduct	-34.94	
			For >5,000, Deduct	-57.77	
33 01 30 72-0050	LF		10.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	297.08	
			For Vinlyester Resin, Add	186.41	
			For Epoxy Resin, Add	21.97	
			For Up To >10, Add	225.49	
			For >10 To 25, Add	143.53	
			For >25 To 50, Add	99.43	
			For >50 To 100, Add	49.72	
			For >500 To 1,000, Deduct	-15.62	
			For >1,000 To 2,000, Deduct	-23.82	
			For >2,000 To 5,000, Deduct	-39.65	
			For >5,000, Deduct	-65.57	
33 01 30 72-0051	LF		10.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	334.06	
			For Vinlyester Resin, Add	210.12	
			For Epoxy Resin, Add	24.76	
			For Up To >10, Add	251.76	
			For >10 To 25, Add	159.77	
			For >25 To 50, Add	110.87	
			For >50 To 100, Add	55.43	
			For >500 To 1,000, Deduct	-17.55	
			For >1,000 To 2,000, Deduct	-26.75	
			For >2,000 To 5,000, Deduct	-44.49	
			For >5,000, Deduct	-73.59	
33 01 30 72-0052	LF		10.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	371.73	
			For Vinlyester Resin, Add	233.83	
			For Epoxy Resin, Add	27.56	
			For Up To >10, Add	280.09	
			For >10 To 25, Add	177.74	
			For >25 To 50, Add	123.34	
			For >50 To 100, Add	61.67	
			For >500 To 1,000, Deduct	-19.53	
			For >1,000 To 2,000, Deduct	-29.76	
			For >2,000 To 5,000, Deduct	-49.51	
			For >5,000, Deduct	-81.88	
33 01 30 72-0053	LF		10.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	444.22	
			For Vinlyester Resin, Add	281.25	
			For Epoxy Resin, Add	33.15	
			For Up To >10, Add	328.21	
			For >10 To 25, Add	206.55	
			For >25 To 50, Add	144.02	
			For >50 To 100, Add	72.01	
			For >500 To 1,000, Deduct	-23.27	
			For >1,000 To 2,000, Deduct	-35.44	
			For >2,000 To 5,000, Deduct	-58.82	
			For >5,000, Deduct	-97.33	

33 01 30 72-0054 12mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0055 LF 12mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	210.50	
For Vinylester Resin, Add	131.22	
For Epoxy Resin, Add	15.46	
For Up To >10, Add	162.88	
For >10 To 25, Add	104.49	
For >25 To 50, Add	72.07	
For >50 To 100, Add	36.03	
For >500 To 1,000, Deduct	-11.10	
For >1,000 To 2,000, Deduct	-16.94	
For >2,000 To 5,000, Deduct	-28.26	
For >5,000, Deduct	-46.71	
33 01 30 72-0056 LF 12mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	252.19	
For Vinylester Resin, Add	158.31	
For Epoxy Resin, Add	18.66	
For Up To >10, Add	191.17	
For >10 To 25, Add	121.62	
For >25 To 50, Add	84.28	
For >50 To 100, Add	42.14	
For >500 To 1,000, Deduct	-13.26	
For >1,000 To 2,000, Deduct	-20.22	
For >2,000 To 5,000, Deduct	-33.65	
For >5,000, Deduct	-55.64	
33 01 30 72-0057 LF 12mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	293.07	
For Vinylester Resin, Add	185.41	
For Epoxy Resin, Add	21.85	
For Up To >10, Add	217.04	
For >10 To 25, Add	136.72	
For >25 To 50, Add	95.27	
For >50 To 100, Add	47.64	
For >500 To 1,000, Deduct	-15.36	
For >1,000 To 2,000, Deduct	-23.39	
For >2,000 To 5,000, Deduct	-38.83	
For >5,000, Deduct	-64.25	
33 01 30 72-0058 LF 12mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	334.36	
For Vinylester Resin, Add	212.51	
For Epoxy Resin, Add	25.05	
For Up To >10, Add	244.13	
For >10 To 25, Add	152.85	
For >25 To 50, Add	106.89	
For >50 To 100, Add	53.44	
For >500 To 1,000, Deduct	-17.49	
For >1,000 To 2,000, Deduct	-26.62	
For >2,000 To 5,000, Deduct	-44.12	
For >5,000, Deduct	-73.03	
33 01 30 72-0059 LF 12mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	376.18	
For Vinylester Resin, Add	239.60	
For Epoxy Resin, Add	28.24	
For Up To >10, Add	272.82	
For >10 To 25, Add	170.30	
For >25 To 50, Add	119.29	
For >50 To 100, Add	59.65	
For >500 To 1,000, Deduct	-19.66	
For >1,000 To 2,000, Deduct	-29.91	
For >2,000 To 5,000, Deduct	-49.55	
For >5,000, Deduct	-82.01	
33 01 30 72-0060 LF 12mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	418.69	
For Vinylester Resin, Add	266.70	
For Epoxy Resin, Add	31.43	
For Up To >10, Add	303.57	
For >10 To 25, Add	189.48	
For >25 To 50, Add	132.74	
For >50 To 100, Add	66.37	
For >500 To 1,000, Deduct	-21.88	
For >1,000 To 2,000, Deduct	-33.29	
For >2,000 To 5,000, Deduct	-55.14	
For >5,000, Deduct	-91.28	
33 01 30 72-0061 LF 12mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	500.86	
For Vinylester Resin, Add	320.89	
For Epoxy Resin, Add	37.82	
For Up To >10, Add	356.53	
For >10 To 25, Add	220.71	
For >25 To 50, Add	155.34	
For >50 To 100, Add	77.67	
For >500 To 1,000, Deduct	-26.10	
For >1,000 To 2,000, Deduct	-39.69	
For >2,000 To 5,000, Deduct	-65.62	
For >5,000, Deduct	-108.66	



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		Operation and Maintenance of Utilities	33 01	
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0062	LF	12mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	584.25	
		For Vinylester Resin, Add	375.09	
		For Epoxy Resin, Add	44.21	
		For Up To >10, Add	413.15	
		For >10 To 25, Add	254.99	
		For >25 To 50, Add	179.78	
		For >50 To 100, Add	89.89	
		For >500 To 1,000, Deduct	-30.42	
		For >1,000 To 2,000, Deduct	-46.24	
		For >2,000 To 5,000, Deduct	-76.40	
		For >5,000, Deduct	-126.53	
33 01 30 72-0063	LF	12mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	669.79	
		For Vinylester Resin, Add	429.28	
		For Epoxy Resin, Add	50.59	
		For Up To >10, Add	476.25	
		For >10 To 25, Add	294.66	
		For >25 To 50, Add	207.46	
		For >50 To 100, Add	103.73	
		For >500 To 1,000, Deduct	-34.90	
		For >1,000 To 2,000, Deduct	-53.06	
		For >2,000 To 5,000, Deduct	-87.73	
		For >5,000, Deduct	-145.27	
33 01 30 72-0064 13.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)				
33 01 30 72-0065	LF	13.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	233.07	
		For Vinylester Resin, Add	147.01	
		For Epoxy Resin, Add	17.33	
		For Up To >10, Add	174.16	
		For >10 To 25, Add	110.13	
		For >25 To 50, Add	76.58	
		For >50 To 100, Add	38.29	
		For >500 To 1,000, Deduct	-12.23	
		For >1,000 To 2,000, Deduct	-18.63	
		For >2,000 To 5,000, Deduct	-30.96	
		For >5,000, Deduct	-51.22	
33 01 30 72-0066	LF	13.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	279.61	
		For Vinylester Resin, Add	177.51	
		For Epoxy Resin, Add	20.92	
		For Up To >10, Add	204.88	
		For >10 To 25, Add	128.47	
		For >25 To 50, Add	89.76	
		For >50 To 100, Add	44.88	
		For >500 To 1,000, Deduct	-14.63	
		For >1,000 To 2,000, Deduct	-22.27	
		For >2,000 To 5,000, Deduct	-36.94	
		For >5,000, Deduct	-61.13	
33 01 30 72-0067	LF	13.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	325.33	
		For Vinylester Resin, Add	207.99	
		For Epoxy Resin, Add	24.51	
		For Up To >10, Add	233.17	
		For >10 To 25, Add	144.78	
		For >25 To 50, Add	101.73	
		For >50 To 100, Add	50.86	
		For >500 To 1,000, Deduct	-16.97	
		For >1,000 To 2,000, Deduct	-25.81	
		For >2,000 To 5,000, Deduct	-42.71	
		For >5,000, Deduct	-70.71	
33 01 30 72-0068	LF	13.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	371.45	
		For Vinylester Resin, Add	238.47	
		For Epoxy Resin, Add	28.11	
		For Up To >10, Add	262.68	
		For >10 To 25, Add	162.12	
		For >25 To 50, Add	114.30	
		For >50 To 100, Add	57.15	
		For >500 To 1,000, Deduct	-19.34	
		For >1,000 To 2,000, Deduct	-29.40	
		For >2,000 To 5,000, Deduct	-48.58	
		For >5,000, Deduct	-80.45	
33 01 30 72-0069	LF	13.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	418.11	
		For Vinylester Resin, Add	268.95	
		For Epoxy Resin, Add	31.70	
		For Up To >10, Add	293.78	
		For >10 To 25, Add	180.78	
		For >25 To 50, Add	127.68	
		For >50 To 100, Add	63.84	
		For >500 To 1,000, Deduct	-21.75	
		For >1,000 To 2,000, Deduct	-33.05	
		For >2,000 To 5,000, Deduct	-54.58	
		For >5,000, Deduct	-90.40	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0070 LF 13.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	465.46	
For Vinylester Resin, Add	299.44	
For Epoxy Resin, Add	35.29	
For Up To >10, Add	326.96	
For >10 To 25, Add	201.17	
For >25 To 50, Add	142.09	
For >50 To 100, Add	71.04	
For >500 To 1,000, Deduct	-24.22	
For >1,000 To 2,000, Deduct	-36.79	
For >2,000 To 5,000, Deduct	-60.75	
For >5,000, Deduct	-100.63	
33 01 30 72-0071 LF 13.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	557.30	
For Vinylester Resin, Add	360.40	
For Epoxy Resin, Add	42.48	
For Up To >10, Add	384.75	
For >10 To 25, Add	234.82	
For >25 To 50, Add	166.63	
For >50 To 100, Add	83.32	
For >500 To 1,000, Deduct	-28.93	
For >1,000 To 2,000, Deduct	-43.92	
For >2,000 To 5,000, Deduct	-72.39	
For >5,000, Deduct	-119.95	
33 01 30 72-0072 LF 13.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	650.37	
For Vinylester Resin, Add	421.37	
For Epoxy Resin, Add	49.66	
For Up To >10, Add	446.21	
For >10 To 25, Add	271.52	
For >25 To 50, Add	193.01	
For >50 To 100, Add	96.50	
For >500 To 1,000, Deduct	-33.73	
For >1,000 To 2,000, Deduct	-51.20	
For >2,000 To 5,000, Deduct	-84.34	
For >5,000, Deduct	-139.76	
33 01 30 72-0073 LF 13.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	745.60	
For Vinylester Resin, Add	482.34	
For Epoxy Resin, Add	56.85	
For Up To >10, Add	514.15	
For >10 To 25, Add	313.62	
For >25 To 50, Add	222.62	
For >50 To 100, Add	111.31	
For >500 To 1,000, Deduct	-38.69	
For >1,000 To 2,000, Deduct	-58.75	
For >2,000 To 5,000, Deduct	-96.82	
For >5,000, Deduct	-160.43	
33 01 30 72-0074 15mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015).....	255.46	
33 01 30 72-0075 LF 15mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	162.69	
For Vinylester Resin, Add	19.17	
For Epoxy Resin, Add	185.36	
For Up To >10, Add	115.73	
For >10 To 25, Add	81.06	
For >25 To 50, Add	40.53	
For >50 To 100, Add	-13.35	
For >500 To 1,000, Deduct	-20.31	
For >1,000 To 2,000, Deduct	-33.65	
For >2,000 To 5,000, Deduct	-55.70	
33 01 30 72-0076 LF 15mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	306.83	
For Vinylester Resin, Add	196.56	
For Epoxy Resin, Add	23.17	
For Up To >10, Add	218.49	
For >10 To 25, Add	135.28	
For >25 To 50, Add	95.21	
For >50 To 100, Add	47.60	
For >500 To 1,000, Deduct	-15.99	
For >1,000 To 2,000, Deduct	-24.31	
For >2,000 To 5,000, Deduct	-40.20	
For >5,000, Deduct	-66.57	
33 01 30 72-0077 LF 15mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	357.38	
For Vinylester Resin, Add	230.43	
For Epoxy Resin, Add	27.16	
For Up To >10, Add	249.19	
For >10 To 25, Add	152.80	
For >25 To 50, Add	108.14	
For >50 To 100, Add	54.07	
For >500 To 1,000, Deduct	-18.57	
For >1,000 To 2,000, Deduct	-28.21	
For >2,000 To 5,000, Deduct	-46.55	
For >5,000, Deduct	-77.12	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0078	LF		15mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	408.35	
			For Vinlyester Resin, Add	264.30	
			For Epoxy Resin, Add	31.15	
			For Up To >10, Add	281.13	
			For >10 To 25, Add	171.34	
			For >25 To 50, Add	121.68	
			For >50 To 100, Add	60.84	
			For >500 To 1,000, Deduct	-21.19	
			For >1,000 To 2,000, Deduct	-32.17	
			For >2,000 To 5,000, Deduct	-53.00	
			For >5,000, Deduct	-87.83	
33 01 30 72-0079	LF		15mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	459.85	
			For Vinlyester Resin, Add	298.17	
			For Epoxy Resin, Add	35.14	
			For Up To >10, Add	314.65	
			For >10 To 25, Add	191.22	
			For >25 To 50, Add	136.03	
			For >50 To 100, Add	68.01	
			For >500 To 1,000, Deduct	-23.84	
			For >1,000 To 2,000, Deduct	-36.18	
			For >2,000 To 5,000, Deduct	-59.59	
			For >5,000, Deduct	-98.75	
33 01 30 72-0080	LF		15mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	512.04	
			For Vinlyester Resin, Add	332.05	
			For Epoxy Resin, Add	39.13	
			For Up To >10, Add	350.25	
			For >10 To 25, Add	212.81	
			For >25 To 50, Add	151.41	
			For >50 To 100, Add	75.70	
			For >500 To 1,000, Deduct	-26.54	
			For >1,000 To 2,000, Deduct	-40.29	
			For >2,000 To 5,000, Deduct	-66.34	
			For >5,000, Deduct	-109.95	
33 01 30 72-0081	LF		15mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	613.56	
			For Vinlyester Resin, Add	399.78	
			For Epoxy Resin, Add	47.12	
			For Up To >10, Add	412.88	
			For >10 To 25, Add	248.88	
			For >25 To 50, Add	177.88	
			For >50 To 100, Add	88.94	
			For >500 To 1,000, Deduct	-31.74	
			For >1,000 To 2,000, Deduct	-48.14	
			For >2,000 To 5,000, Deduct	-79.14	
			For >5,000, Deduct	-131.20	
33 01 30 72-0082	LF		15mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	716.30	
			For Vinlyester Resin, Add	467.52	
			For Epoxy Resin, Add	55.10	
			For Up To >10, Add	479.18	
			For >10 To 25, Add	288.00	
			For >25 To 50, Add	206.19	
			For >50 To 100, Add	103.10	
			For >500 To 1,000, Deduct	-37.03	
			For >1,000 To 2,000, Deduct	-56.14	
			For >2,000 To 5,000, Deduct	-92.25	
			For >5,000, Deduct	-152.94	
33 01 30 72-0083	LF		15mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	821.21	
			For Vinlyester Resin, Add	535.27	
			For Epoxy Resin, Add	63.09	
			For Up To >10, Add	551.96	
			For >10 To 25, Add	332.52	
			For >25 To 50, Add	237.74	
			For >50 To 100, Add	118.87	
			For >500 To 1,000, Deduct	-42.47	
			For >1,000 To 2,000, Deduct	-64.42	
			For >2,000 To 5,000, Deduct	-105.90	
			For >5,000, Deduct	-175.55	
33 01 30 72-0084			16.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015).....	333.86	
33 01 30 72-0085	LF		16.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	333.86	
			For Vinlyester Resin, Add	215.48	
			For Epoxy Resin, Add	25.40	
			For Up To >10, Add	232.01	
			For >10 To 25, Add	142.03	
			For >25 To 50, Add	100.61	
			For >50 To 100, Add	50.31	
			For >500 To 1,000, Deduct	-17.34	
			For >1,000 To 2,000, Deduct	-26.34	
			For >2,000 To 5,000, Deduct	-43.45	
			For >5,000, Deduct	-71.98	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0086 LF 16.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	389.25	
For Vinylster Resin, Add	252.74	
For Epoxy Resin, Add	29.79	
For Up To >10, Add	265.13	
For >10 To 25, Add	160.76	
For >25 To 50, Add	114.51	
For >50 To 100, Add	57.26	
For >500 To 1,000, Deduct	-20.17	
For >1,000 To 2,000, Deduct	-30.60	
For >2,000 To 5,000, Deduct	-50.38	
For >5,000, Deduct	-83.49	
33 01 30 72-0087 LF 16.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	445.06	
For Vinylster Resin, Add	290.00	
For Epoxy Resin, Add	34.18	
For Up To >10, Add	299.48	
For >10 To 25, Add	180.52	
For >25 To 50, Add	129.03	
For >50 To 100, Add	64.51	
For >500 To 1,000, Deduct	-23.02	
For >1,000 To 2,000, Deduct	-34.92	
For >2,000 To 5,000, Deduct	-57.41	
For >5,000, Deduct	-95.17	
33 01 30 72-0088 LF 16.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	501.40	
For Vinylster Resin, Add	327.26	
For Epoxy Resin, Add	38.57	
For Up To >10, Add	335.43	
For >10 To 25, Add	201.60	
For >25 To 50, Add	144.34	
For >50 To 100, Add	72.17	
For >500 To 1,000, Deduct	-25.92	
For >1,000 To 2,000, Deduct	-39.30	
For >2,000 To 5,000, Deduct	-64.57	
For >5,000, Deduct	-107.06	
33 01 30 72-0089 LF 16.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	558.42	
For Vinylster Resin, Add	364.51	
For Epoxy Resin, Add	42.96	
For Up To >10, Add	373.44	
For >10 To 25, Add	224.41	
For >25 To 50, Add	160.68	
For >50 To 100, Add	80.34	
For >500 To 1,000, Deduct	-28.86	
For >1,000 To 2,000, Deduct	-43.77	
For >2,000 To 5,000, Deduct	-71.91	
For >5,000, Deduct	-119.22	
33 01 30 72-0090 LF 16.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	669.63	
For Vinylster Resin, Add	439.03	
For Epoxy Resin, Add	51.74	
For Up To >10, Add	440.92	
For >10 To 25, Add	262.90	
For >25 To 50, Add	189.10	
For >50 To 100, Add	94.55	
For >500 To 1,000, Deduct	-34.54	
For >1,000 To 2,000, Deduct	-52.34	
For >2,000 To 5,000, Deduct	-85.87	
For >5,000, Deduct	-142.41	
33 01 30 72-0091 LF 16.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	782.04	
For Vinylster Resin, Add	513.54	
For Epoxy Resin, Add	60.52	
For Up To >10, Add	512.05	
For >10 To 25, Add	304.43	
For >25 To 50, Add	219.34	
For >50 To 100, Add	109.67	
For >500 To 1,000, Deduct	-40.31	
For >1,000 To 2,000, Deduct	-61.07	
For >2,000 To 5,000, Deduct	-100.14	
For >5,000, Deduct	-166.09	
33 01 30 72-0092 LF 16.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	896.63	
For Vinylster Resin, Add	588.06	
For Epoxy Resin, Add	69.31	
For Up To >10, Add	589.67	
For >10 To 25, Add	351.37	
For >25 To 50, Add	252.83	
For >50 To 100, Add	126.41	
For >500 To 1,000, Deduct	-46.25	
For >1,000 To 2,000, Deduct	-70.07	
For >2,000 To 5,000, Deduct	-114.95	
For >5,000, Deduct	-190.63	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0093 LF 16.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,010.27	
For Vinlyester Resin, Add	662.58	
For Epoxy Resin, Add	78.09	
For Up To >10, Add	664.46	
For >10 To 25, Add	395.96	
For >25 To 50, Add	284.90	
For >50 To 100, Add	142.45	
For >500 To 1,000, Deduct	-52.11	
For >1,000 To 2,000, Deduct	-78.96	
For >2,000 To 5,000, Deduct	-129.52	
For >5,000, Deduct	-214.80	
33 01 30 72-0094 18mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0095 LF 18mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	361.38	
For Vinlyester Resin, Add	234.27	
For Epoxy Resin, Add	27.61	
For Up To >10, Add	247.47	
For >10 To 25, Add	150.44	
For >25 To 50, Add	107.00	
For >50 To 100, Add	53.50	
For >500 To 1,000, Deduct	-18.74	
For >1,000 To 2,000, Deduct	-28.44	
For >2,000 To 5,000, Deduct	-46.84	
For >5,000, Deduct	-77.62	
33 01 30 72-0096 LF 18mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	421.75	
For Vinlyester Resin, Add	274.91	
For Epoxy Resin, Add	32.40	
For Up To >10, Add	283.43	
For >10 To 25, Add	170.73	
For >25 To 50, Add	122.08	
For >50 To 100, Add	61.04	
For >500 To 1,000, Deduct	-21.81	
For >1,000 To 2,000, Deduct	-33.08	
For >2,000 To 5,000, Deduct	-54.38	
For >5,000, Deduct	-90.15	
33 01 30 72-0097 LF 18mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	482.40	
For Vinlyester Resin, Add	315.56	
For Epoxy Resin, Add	37.19	
For Up To >10, Add	320.20	
For >10 To 25, Add	191.70	
For >25 To 50, Add	137.56	
For >50 To 100, Add	68.78	
For >500 To 1,000, Deduct	-24.91	
For >1,000 To 2,000, Deduct	-37.76	
For >2,000 To 5,000, Deduct	-62.00	
For >5,000, Deduct	-102.80	
33 01 30 72-0098 LF 18mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	543.71	
For Vinlyester Resin, Add	356.21	
For Epoxy Resin, Add	41.98	
For Up To >10, Add	358.96	
For >10 To 25, Add	214.32	
For >25 To 50, Add	154.03	
For >50 To 100, Add	77.02	
For >500 To 1,000, Deduct	-28.06	
For >1,000 To 2,000, Deduct	-42.52	
For >2,000 To 5,000, Deduct	-69.77	
For >5,000, Deduct	-115.71	
33 01 30 72-0099 LF 18mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	605.57	
For Vinlyester Resin, Add	396.84	
For Epoxy Resin, Add	46.77	
For Up To >10, Add	399.41	
For >10 To 25, Add	238.36	
For >25 To 50, Add	171.36	
For >50 To 100, Add	85.68	
For >500 To 1,000, Deduct	-31.24	
For >1,000 To 2,000, Deduct	-47.35	
For >2,000 To 5,000, Deduct	-77.69	
For >5,000, Deduct	-128.84	
33 01 30 72-0100 LF 18mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	727.53	
For Vinlyester Resin, Add	478.14	
For Epoxy Resin, Add	56.35	
For Up To >10, Add	474.94	
For >10 To 25, Add	281.94	
For >25 To 50, Add	203.32	
For >50 To 100, Add	101.66	
For >500 To 1,000, Deduct	-37.49	
For >1,000 To 2,000, Deduct	-56.79	
For >2,000 To 5,000, Deduct	-93.08	
For >5,000, Deduct	-154.40	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0101 LF 18mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	850.03	
For Vinylster Resin, Add	559.43	
For Epoxy Resin, Add	65.93	
For Up To >10, Add	552.12	
For >10 To 25, Add	326.90	
For >25 To 50, Add	236.10	
For >50 To 100, Add	118.05	
For >500 To 1,000, Deduct	-43.77	
For >1,000 To 2,000, Deduct	-66.29	
For >2,000 To 5,000, Deduct	-108.61	
For >5,000, Deduct	-180.17	
33 01 30 72-0102 LF 18mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	974.70	
For Vinylster Resin, Add	640.72	
For Epoxy Resin, Add	75.51	
For Up To >10, Add	635.83	
For >10 To 25, Add	377.30	
For >25 To 50, Add	272.15	
For >50 To 100, Add	136.07	
For >500 To 1,000, Deduct	-50.22	
For >1,000 To 2,000, Deduct	-76.07	
For >2,000 To 5,000, Deduct	-124.68	
For >5,000, Deduct	-206.82	
33 01 30 72-0103 LF 18mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,098.42	
For Vinylster Resin, Add	722.02	
For Epoxy Resin, Add	85.09	
For Up To >10, Add	716.64	
For >10 To 25, Add	425.29	
For >25 To 50, Add	306.75	
For >50 To 100, Add	153.37	
For >500 To 1,000, Deduct	-56.60	
For >1,000 To 2,000, Deduct	-85.73	
For >2,000 To 5,000, Deduct	-140.52	
For >5,000, Deduct	-233.08	
33 01 30 72-0104 LF 18mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,222.01	
For Vinylster Resin, Add	803.30	
For Epoxy Resin, Add	94.67	
For Up To >10, Add	797.11	
For >10 To 25, Add	472.99	
For >25 To 50, Add	341.17	
For >50 To 100, Add	170.59	
For >500 To 1,000, Deduct	-62.96	
For >1,000 To 2,000, Deduct	-95.37	
For >2,000 To 5,000, Deduct	-156.32	
For >5,000, Deduct	-259.29	
33 01 30 72-0105 LF 18mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,346.14	
For Vinylster Resin, Add	884.59	
For Epoxy Resin, Add	104.26	
For Up To >10, Add	879.17	
For >10 To 25, Add	522.03	
For >25 To 50, Add	376.40	
For >50 To 100, Add	188.20	
For >500 To 1,000, Deduct	-69.37	
For >1,000 To 2,000, Deduct	-105.08	
For >2,000 To 5,000, Deduct	-172.25	
For >5,000, Deduct	-285.72	
33 01 30 72-0106 LF 18mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,469.85	
For Vinylster Resin, Add	965.88	
For Epoxy Resin, Add	113.84	
For Up To >10, Add	959.98	
For >10 To 25, Add	570.01	
For >25 To 50, Add	411.00	
For >50 To 100, Add	205.50	
For >500 To 1,000, Deduct	-75.74	
For >1,000 To 2,000, Deduct	-114.74	
For >2,000 To 5,000, Deduct	-188.08	
For >5,000, Deduct	-311.97	
33 01 30 72-0107 19.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015).....	389.11	
33 01 30 72-0108 LF 19.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	389.11	
For Vinylster Resin, Add	252.92	
For Epoxy Resin, Add	29.81	
For Up To >10, Add	264.03	
For >10 To 25, Add	159.81	
For >25 To 50, Add	113.95	
For >50 To 100, Add	56.97	
For >500 To 1,000, Deduct	-20.15	
For >1,000 To 2,000, Deduct	-30.57	
For >2,000 To 5,000, Deduct	-50.31	
For >5,000, Deduct	-83.38	



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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0109	LF		19.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	454.33	
			For Vinlyester Resin, Add	296.96	
			For Epoxy Resin, Add	35.00	
			For Up To >10, Add	302.42	
			For >10 To 25, Add	181.31	
			For >25 To 50, Add	130.00	
			For >50 To 100, Add	65.00	
			For >500 To 1,000, Deduct	-23.47	
			For >1,000 To 2,000, Deduct	-35.58	
			For >2,000 To 5,000, Deduct	-58.43	
			For >5,000, Deduct	-96.89	
33 01 30 72-0110	LF		19.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	519.93	
			For Vinlyester Resin, Add	340.98	
			For Epoxy Resin, Add	40.19	
			For Up To >10, Add	341.99	
			For >10 To 25, Add	203.81	
			For >25 To 50, Add	146.64	
			For >50 To 100, Add	73.32	
			For >500 To 1,000, Deduct	-26.82	
			For >1,000 To 2,000, Deduct	-40.64	
			For >2,000 To 5,000, Deduct	-66.66	
			For >5,000, Deduct	-110.55	
33 01 30 72-0111	LF		19.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	585.82	
			For Vinlyester Resin, Add	385.02	
			For Epoxy Resin, Add	45.38	
			For Up To >10, Add	382.39	
			For >10 To 25, Add	226.98	
			For >25 To 50, Add	163.69	
			For >50 To 100, Add	81.85	
			For >500 To 1,000, Deduct	-30.19	
			For >1,000 To 2,000, Deduct	-45.73	
			For >2,000 To 5,000, Deduct	-74.95	
			For >5,000, Deduct	-124.32	
33 01 30 72-0112	LF		19.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	652.80	
			For Vinlyester Resin, Add	429.06	
			For Epoxy Resin, Add	50.57	
			For Up To >10, Add	426.05	
			For >10 To 25, Add	252.89	
			For >25 To 50, Add	182.38	
			For >50 To 100, Add	91.19	
			For >500 To 1,000, Deduct	-33.64	
			For >1,000 To 2,000, Deduct	-50.95	
			For >2,000 To 5,000, Deduct	-83.52	
			For >5,000, Deduct	-138.53	
33 01 30 72-0113	LF		19.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	785.65	
			For Vinlyester Resin, Add	517.12	
			For Epoxy Resin, Add	60.95	
			For Up To >10, Add	510.10	
			For >10 To 25, Add	301.96	
			For >25 To 50, Add	218.11	
			For >50 To 100, Add	109.06	
			For >500 To 1,000, Deduct	-40.46	
			For >1,000 To 2,000, Deduct	-61.27	
			For >2,000 To 5,000, Deduct	-100.38	
			For >5,000, Deduct	-166.51	
33 01 30 72-0114	LF		19.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	918.91	
			For Vinlyester Resin, Add	605.18	
			For Epoxy Resin, Add	71.32	
			For Up To >10, Add	595.38	
			For >10 To 25, Add	352.06	
			For >25 To 50, Add	254.46	
			For >50 To 100, Add	127.23	
			For >500 To 1,000, Deduct	-47.30	
			For >1,000 To 2,000, Deduct	-71.64	
			For >2,000 To 5,000, Deduct	-117.34	
			For >5,000, Deduct	-194.66	
33 01 30 72-0115	LF		19.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,053.13	
			For Vinlyester Resin, Add	693.25	
			For Epoxy Resin, Add	81.70	
			For Up To >10, Add	683.52	
			For >10 To 25, Add	404.54	
			For >25 To 50, Add	292.24	
			For >50 To 100, Add	146.12	
			For >500 To 1,000, Deduct	-54.23	
			For >1,000 To 2,000, Deduct	-82.12	
			For >2,000 To 5,000, Deduct	-134.54	
			For >5,000, Deduct	-223.18	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0116 LF 19.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,186.94	
For Vinylster Resin, Add	781.31	
For Epoxy Resin, Add	92.08	
For Up To >10, Add	770.42	
For >10 To 25, Add	455.99	
For >25 To 50, Add	329.40	
For >50 To 100, Add	164.70	
For >500 To 1,000, Deduct	-61.12	
For >1,000 To 2,000, Deduct	-92.56	
For >2,000 To 5,000, Deduct	-151.63	
For >5,000, Deduct	-251.54	
33 01 30 72-0117 LF 19.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,320.74	
For Vinylster Resin, Add	869.37	
For Epoxy Resin, Add	102.46	
For Up To >10, Add	857.32	
For >10 To 25, Add	507.44	
For >25 To 50, Add	366.56	
For >50 To 100, Add	183.28	
For >500 To 1,000, Deduct	-68.01	
For >1,000 To 2,000, Deduct	-102.99	
For >2,000 To 5,000, Deduct	-168.73	
For >5,000, Deduct	-279.90	
33 01 30 72-0118 LF 19.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,456.17	
For Vinylster Resin, Add	957.44	
For Epoxy Resin, Add	112.84	
For Up To >10, Add	949.09	
For >10 To 25, Add	562.94	
For >25 To 50, Add	406.15	
For >50 To 100, Add	203.08	
For >500 To 1,000, Deduct	-75.02	
For >1,000 To 2,000, Deduct	-113.63	
For >2,000 To 5,000, Deduct	-186.23	
For >5,000, Deduct	-308.91	
33 01 30 72-0119 LF 19.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,590.11	
For Vinylster Resin, Add	1,045.50	
For Epoxy Resin, Add	123.22	
For Up To >10, Add	1,036.41	
For >10 To 25, Add	614.74	
For >25 To 50, Add	443.52	
For >50 To 100, Add	221.76	
For >500 To 1,000, Deduct	-81.92	
For >1,000 To 2,000, Deduct	-124.09	
For >2,000 To 5,000, Deduct	-203.36	
For >5,000, Deduct	-337.33	
33 01 30 72-0120 21mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)	416.52	
33 01 30 72-0121 LF 21mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	271.45	
For Vinylster Resin, Add	31.99	
For Epoxy Resin, Add	280.11	
For Up To >10, Add	168.80	
For >10 To 25, Add	120.67	
For >25 To 50, Add	60.33	
For >50 To 100, Add	-21.54	
For >500 To 1,000, Deduct	-32.68	
For >1,000 To 2,000, Deduct	-53.72	
For >2,000 To 5,000, Deduct	-89.05	
33 01 30 72-0122 LF 21mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	486.70	
For Vinylster Resin, Add	318.86	
For Epoxy Resin, Add	37.58	
For Up To >10, Add	321.30	
For >10 To 25, Add	191.83	
For >25 To 50, Add	137.87	
For >50 To 100, Add	68.94	
For >500 To 1,000, Deduct	-25.11	
For >1,000 To 2,000, Deduct	-38.06	
For >2,000 To 5,000, Deduct	-62.46	
For >5,000, Deduct	-103.58	
33 01 30 72-0123 LF 21mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	557.30	
For Vinylster Resin, Add	366.29	
For Epoxy Resin, Add	43.17	
For Up To >10, Add	363.73	
For >10 To 25, Add	215.89	
For >25 To 50, Add	155.70	
For >50 To 100, Add	77.85	
For >500 To 1,000, Deduct	-28.72	
For >1,000 To 2,000, Deduct	-43.50	
For >2,000 To 5,000, Deduct	-71.30	
For >5,000, Deduct	-118.27	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0124	LF		21mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	627.75	
			For Vinlyester Resin, Add	413.71	
			For Epoxy Resin, Add	48.76	
			For Up To >10, Add	405.73	
			For >10 To 25, Add	239.60	
			For >25 To 50, Add	173.31	
			For >50 To 100, Add	86.66	
			For >500 To 1,000, Deduct	-32.31	
			For >1,000 To 2,000, Deduct	-48.92	
			For >2,000 To 5,000, Deduct	-80.11	
			For >5,000, Deduct	-132.90	
33 01 30 72-0125	LF		21mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	699.69	
			For Vinlyester Resin, Add	461.13	
			For Epoxy Resin, Add	54.35	
			For Up To >10, Add	452.20	
			For >10 To 25, Add	267.04	
			For >25 To 50, Add	193.16	
			For >50 To 100, Add	96.58	
			For >500 To 1,000, Deduct	-36.01	
			For >1,000 To 2,000, Deduct	-54.52	
			For >2,000 To 5,000, Deduct	-89.29	
			For >5,000, Deduct	-148.13	
33 01 30 72-0126	LF		21mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	843.59	
			For Vinlyester Resin, Add	555.96	
			For Epoxy Resin, Add	65.52	
			For Up To >10, Add	545.20	
			For >10 To 25, Add	321.96	
			For >25 To 50, Add	232.89	
			For >50 To 100, Add	116.44	
			For >500 To 1,000, Deduct	-43.41	
			For >1,000 To 2,000, Deduct	-65.74	
			For >2,000 To 5,000, Deduct	-107.65	
			For >5,000, Deduct	-178.59	
33 01 30 72-0127	LF		21mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	987.48	
			For Vinlyester Resin, Add	650.80	
			For Epoxy Resin, Add	76.70	
			For Up To >10, Add	638.14	
			For >10 To 25, Add	376.83	
			For >25 To 50, Add	272.58	
			For >50 To 100, Add	136.29	
			For >500 To 1,000, Deduct	-50.82	
			For >1,000 To 2,000, Deduct	-76.95	
			For >2,000 To 5,000, Deduct	-126.01	
			For >5,000, Deduct	-209.05	
33 01 30 72-0128	LF		21mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,131.36	
			For Vinlyester Resin, Add	745.64	
			For Epoxy Resin, Add	87.88	
			For Up To >10, Add	731.08	
			For >10 To 25, Add	431.70	
			For >25 To 50, Add	312.28	
			For >50 To 100, Add	156.14	
			For >500 To 1,000, Deduct	-58.22	
			For >1,000 To 2,000, Deduct	-88.16	
			For >2,000 To 5,000, Deduct	-144.36	
			For >5,000, Deduct	-239.50	
33 01 30 72-0129	LF		21mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,275.25	
			For Vinlyester Resin, Add	840.48	
			For Epoxy Resin, Add	99.06	
			For Up To >10, Add	824.05	
			For >10 To 25, Add	486.60	
			For >25 To 50, Add	351.99	
			For >50 To 100, Add	176.00	
			For >500 To 1,000, Deduct	-65.63	
			For >1,000 To 2,000, Deduct	-99.37	
			For >2,000 To 5,000, Deduct	-162.72	
			For >5,000, Deduct	-269.96	
33 01 30 72-0130	LF		21mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,419.13	
			For Vinlyester Resin, Add	935.31	
			For Epoxy Resin, Add	110.23	
			For Up To >10, Add	916.99	
			For >10 To 25, Add	541.47	
			For >25 To 50, Add	391.69	
			For >50 To 100, Add	195.84	
			For >500 To 1,000, Deduct	-73.03	
			For >1,000 To 2,000, Deduct	-110.58	
			For >2,000 To 5,000, Deduct	-181.08	
			For >5,000, Deduct	-300.42	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0131 LF 21mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,566.01	
For Vinylster Resin, Add	1,030.16	
For Epoxy Resin, Add	121.41	
For Up To >10, Add	1,018.91	
For >10 To 25, Add	603.81	
For >25 To 50, Add	435.87	
For >50 To 100, Add	217.94	
For >500 To 1,000, Deduct	-80.66	
For >1,000 To 2,000, Deduct	-122.17	
For >2,000 To 5,000, Deduct	-200.19	
For >5,000, Deduct	-332.07	
33 01 30 72-0132 LF 21mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,710.18	
For Vinylster Resin, Add	1,125.00	
For Epoxy Resin, Add	132.59	
For Up To >10, Add	1,112.69	
For >10 To 25, Add	659.39	
For >25 To 50, Add	475.99	
For >50 To 100, Add	237.99	
For >500 To 1,000, Deduct	-88.09	
For >1,000 To 2,000, Deduct	-133.42	
For >2,000 To 5,000, Deduct	-218.62	
For >5,000, Deduct	-362.64	
33 01 30 72-0133 22.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)	443.61	
33 01 30 72-0134 LF 22.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	443.61	
For Vinylster Resin, Add	289.84	
For Epoxy Resin, Add	34.16	
For Up To >10, Add	295.68	
For >10 To 25, Add	177.39	
For >25 To 50, Add	127.14	
For >50 To 100, Add	63.57	
For >500 To 1,000, Deduct	-22.92	
For >1,000 To 2,000, Deduct	-34.75	
For >2,000 To 5,000, Deduct	-57.07	
For >5,000, Deduct	-94.63	
33 01 30 72-0135 LF 22.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	518.63	
For Vinylster Resin, Add	340.64	
For Epoxy Resin, Add	40.15	
For Up To >10, Add	339.32	
For >10 To 25, Add	201.66	
For >25 To 50, Add	145.33	
For >50 To 100, Add	72.66	
For >500 To 1,000, Deduct	-26.73	
For >1,000 To 2,000, Deduct	-40.50	
For >2,000 To 5,000, Deduct	-66.40	
For >5,000, Deduct	-110.13	
33 01 30 72-0136 LF 22.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	594.47	
For Vinylster Resin, Add	391.45	
For Epoxy Resin, Add	46.14	
For Up To >10, Add	385.36	
For >10 To 25, Add	227.93	
For >25 To 50, Add	164.72	
For >50 To 100, Add	82.36	
For >500 To 1,000, Deduct	-30.60	
For >1,000 To 2,000, Deduct	-46.35	
For >2,000 To 5,000, Deduct	-75.92	
For >5,000, Deduct	-125.94	
33 01 30 72-0137 LF 22.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	670.70	
For Vinylster Resin, Add	442.25	
For Epoxy Resin, Add	52.12	
For Up To >10, Add	432.63	
For >10 To 25, Add	255.22	
For >25 To 50, Add	184.72	
For >50 To 100, Add	92.36	
For >500 To 1,000, Deduct	-34.51	
For >1,000 To 2,000, Deduct	-52.25	
For >2,000 To 5,000, Deduct	-85.54	
For >5,000, Deduct	-141.92	
33 01 30 72-0138 LF 22.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	747.76	
For Vinylster Resin, Add	493.06	
For Epoxy Resin, Add	58.11	
For Up To >10, Add	482.36	
For >10 To 25, Add	284.57	
For >25 To 50, Add	205.96	
For >50 To 100, Add	102.98	
For >500 To 1,000, Deduct	-38.47	
For >1,000 To 2,000, Deduct	-58.25	
For >2,000 To 5,000, Deduct	-95.37	
For >5,000, Deduct	-158.23	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0139	LF	22.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	901.87	
		For Vinlyester Resin, Add	594.67	
		For Epoxy Resin, Add	70.09	
		For Up To >10, Add	581.79	
		For >10 To 25, Add	343.23	
		For >25 To 50, Add	248.42	
		For >50 To 100, Add	124.21	
		For >500 To 1,000, Deduct	-46.40	
		For >1,000 To 2,000, Deduct	-70.26	
		For >2,000 To 5,000, Deduct	-115.03	
		For >5,000, Deduct	-190.84	
33 01 30 72-0140	LF	22.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,055.97	
		For Vinlyester Resin, Add	696.28	
		For Epoxy Resin, Add	82.06	
		For Up To >10, Add	681.19	
		For >10 To 25, Add	401.87	
		For >25 To 50, Add	290.86	
		For >50 To 100, Add	145.43	
		For >500 To 1,000, Deduct	-54.33	
		For >1,000 To 2,000, Deduct	-82.26	
		For >2,000 To 5,000, Deduct	-134.68	
		For >5,000, Deduct	-223.45	
33 01 30 72-0141	LF	22.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,210.09	
		For Vinlyester Resin, Add	797.90	
		For Epoxy Resin, Add	94.04	
		For Up To >10, Add	780.62	
		For >10 To 25, Add	460.54	
		For >25 To 50, Add	333.32	
		For >50 To 100, Add	166.66	
		For >500 To 1,000, Deduct	-62.26	
		For >1,000 To 2,000, Deduct	-94.27	
		For >2,000 To 5,000, Deduct	-154.34	
		For >5,000, Deduct	-256.06	
33 01 30 72-0142	LF	22.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,364.20	
		For Vinlyester Resin, Add	899.51	
		For Epoxy Resin, Add	106.01	
		For Up To >10, Add	880.05	
		For >10 To 25, Add	519.21	
		For >25 To 50, Add	375.77	
		For >50 To 100, Add	187.89	
		For >500 To 1,000, Deduct	-70.19	
		For >1,000 To 2,000, Deduct	-106.27	
		For >2,000 To 5,000, Deduct	-174.00	
		For >5,000, Deduct	-288.68	
33 01 30 72-0143	LF	22.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,518.31	
		For Vinlyester Resin, Add	1,001.13	
		For Epoxy Resin, Add	117.99	
		For Up To >10, Add	979.48	
		For >10 To 25, Add	577.87	
		For >25 To 50, Add	418.23	
		For >50 To 100, Add	209.12	
		For >500 To 1,000, Deduct	-78.12	
		For >1,000 To 2,000, Deduct	-118.28	
		For >2,000 To 5,000, Deduct	-193.65	
		For >5,000, Deduct	-321.29	
33 01 30 72-0144	LF	22.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,675.54	
		For Vinlyester Resin, Add	1,102.74	
		For Epoxy Resin, Add	129.97	
		For Up To >10, Add	1,088.27	
		For >10 To 25, Add	644.34	
		For >25 To 50, Add	465.37	
		For >50 To 100, Add	232.68	
		For >500 To 1,000, Deduct	-86.28	
		For >1,000 To 2,000, Deduct	-130.68	
		For >2,000 To 5,000, Deduct	-214.09	
		For >5,000, Deduct	-355.15	
33 01 30 72-0145	LF	22.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,829.91	
		For Vinlyester Resin, Add	1,204.35	
		For Epoxy Resin, Add	141.94	
		For Up To >10, Add	1,188.48	
		For >10 To 25, Add	703.65	
		For >25 To 50, Add	508.22	
		For >50 To 100, Add	254.11	
		For >500 To 1,000, Deduct	-94.23	
		For >1,000 To 2,000, Deduct	-142.71	
		For >2,000 To 5,000, Deduct	-233.81	
		For >5,000, Deduct	-387.86	

33 01 30 72-0146 24mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0147 LF 24mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	470.36	
For Vinylester Resin, Add	308.09	
For Epoxy Resin, Add	36.31	
For Up To >10, Add	310.76	
For >10 To 25, Add	185.61	
For >25 To 50, Add	133.37	
For >50 To 100, Add	66.69	
For >500 To 1,000, Deduct	-24.27	
For >1,000 To 2,000, Deduct	-36.79	
For >2,000 To 5,000, Deduct	-60.37	
For >5,000, Deduct	-100.12	
33 01 30 72-0148 LF 24mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	550.23	
For Vinylester Resin, Add	362.29	
For Epoxy Resin, Add	42.70	
For Up To >10, Add	356.82	
For >10 To 25, Add	211.09	
For >25 To 50, Add	152.53	
For >50 To 100, Add	76.27	
For >500 To 1,000, Deduct	-28.33	
For >1,000 To 2,000, Deduct	-42.90	
For >2,000 To 5,000, Deduct	-70.28	
For >5,000, Deduct	-116.58	
33 01 30 72-0149 LF 24mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	631.31	
For Vinylester Resin, Add	416.48	
For Epoxy Resin, Add	49.09	
For Up To >10, Add	406.51	
For >10 To 25, Add	239.59	
For >25 To 50, Add	173.50	
For >50 To 100, Add	86.75	
For >500 To 1,000, Deduct	-32.47	
For >1,000 To 2,000, Deduct	-49.17	
For >2,000 To 5,000, Deduct	-80.48	
For >5,000, Deduct	-133.53	
33 01 30 72-0150 LF 24mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	713.47	
For Vinylester Resin, Add	470.67	
For Epoxy Resin, Add	55.47	
For Up To >10, Add	459.44	
For >10 To 25, Add	270.80	
For >25 To 50, Add	196.10	
For >50 To 100, Add	98.05	
For >500 To 1,000, Deduct	-36.70	
For >1,000 To 2,000, Deduct	-55.56	
For >2,000 To 5,000, Deduct	-90.96	
For >5,000, Deduct	-150.91	
33 01 30 72-0151 LF 24mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	795.64	
For Vinylester Resin, Add	524.87	
For Epoxy Resin, Add	61.86	
For Up To >10, Add	512.40	
For >10 To 25, Add	302.03	
For >25 To 50, Add	218.71	
For >50 To 100, Add	109.35	
For >500 To 1,000, Deduct	-40.93	
For >1,000 To 2,000, Deduct	-61.96	
For >2,000 To 5,000, Deduct	-101.43	
For >5,000, Deduct	-168.29	
33 01 30 72-0152 LF 24mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	959.97	
For Vinylester Resin, Add	633.26	
For Epoxy Resin, Add	74.63	
For Up To >10, Add	618.29	
For >10 To 25, Add	364.46	
For >25 To 50, Add	263.91	
For >50 To 100, Add	131.96	
For >500 To 1,000, Deduct	-49.38	
For >1,000 To 2,000, Deduct	-74.76	
For >2,000 To 5,000, Deduct	-122.39	
For >5,000, Deduct	-203.06	
33 01 30 72-0153 LF 24mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,165.29	
For Vinylester Resin, Add	770.43	
For Epoxy Resin, Add	90.80	
For Up To >10, Add	744.32	
For >10 To 25, Add	436.83	
For >25 To 50, Add	317.13	
For >50 To 100, Add	158.56	
For >500 To 1,000, Deduct	-59.88	
For >1,000 To 2,000, Deduct	-90.63	
For >2,000 To 5,000, Deduct	-148.24	
For >5,000, Deduct	-245.99	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0154	LF	24mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,288.49	
		For Vinlyester Resin, Add	850.02	
		For Epoxy Resin, Add	100.18	
		For Up To >10, Add	829.67	
		For >10 To 25, Add	489.01	
		For >25 To 50, Add	354.12	
		For >50 To 100, Add	177.06	
		For >500 To 1,000, Deduct	-66.28	
		For >1,000 To 2,000, Deduct	-100.35	
		For >2,000 To 5,000, Deduct	-164.26	
		For >5,000, Deduct	-272.53	
33 01 30 72-0155	LF	24mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,452.81	
		For Vinlyester Resin, Add	958.41	
		For Epoxy Resin, Add	112.96	
		For Up To >10, Add	935.53	
		For >10 To 25, Add	551.42	
		For >25 To 50, Add	399.31	
		For >50 To 100, Add	199.65	
		For >500 To 1,000, Deduct	-74.73	
		For >1,000 To 2,000, Deduct	-113.14	
		For >2,000 To 5,000, Deduct	-185.21	
		For >5,000, Deduct	-307.29	
33 01 30 72-0156	LF	24mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,617.15	
		For Vinlyester Resin, Add	1,066.80	
		For Epoxy Resin, Add	125.73	
		For Up To >10, Add	1,041.45	
		For >10 To 25, Add	613.88	
		For >25 To 50, Add	444.53	
		For >50 To 100, Add	222.26	
		For >500 To 1,000, Deduct	-83.19	
		For >1,000 To 2,000, Deduct	-125.94	
		For >2,000 To 5,000, Deduct	-206.17	
		For >5,000, Deduct	-342.06	
33 01 30 72-0157	LF	24mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,784.73	
		For Vinlyester Resin, Add	1,175.19	
		For Epoxy Resin, Add	138.50	
		For Up To >10, Add	1,157.09	
		For >10 To 25, Add	684.44	
		For >25 To 50, Add	494.60	
		For >50 To 100, Add	247.30	
		For >500 To 1,000, Deduct	-91.88	
		For >1,000 To 2,000, Deduct	-139.15	
		For >2,000 To 5,000, Deduct	-227.93	
		For >5,000, Deduct	-378.12	
33 01 30 72-0158	LF	24mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,949.33	
		For Vinlyester Resin, Add	1,283.58	
		For Epoxy Resin, Add	151.28	
		For Up To >10, Add	1,263.79	
		For >10 To 25, Add	747.55	
		For >25 To 50, Add	540.21	
		For >50 To 100, Add	270.11	
		For >500 To 1,000, Deduct	-100.36	
		For >1,000 To 2,000, Deduct	-151.98	
		For >2,000 To 5,000, Deduct	-248.95	
		For >5,000, Deduct	-413.00	
33 01 30 72-0159	LF	24mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,113.93	
		For Vinlyester Resin, Add	1,391.96	
		For Epoxy Resin, Add	164.05	
		For Up To >10, Add	1,370.49	
		For >10 To 25, Add	810.66	
		For >25 To 50, Add	585.82	
		For >50 To 100, Add	292.91	
		For >500 To 1,000, Deduct	-108.83	
		For >1,000 To 2,000, Deduct	-164.82	
		For >2,000 To 5,000, Deduct	-269.97	
		For >5,000, Deduct	-447.87	
33 01 30 72-0160	LF	24mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,278.53	
		For Vinlyester Resin, Add	1,500.35	
		For Epoxy Resin, Add	176.83	
		For Up To >10, Add	1,477.19	
		For >10 To 25, Add	873.77	
		For >25 To 50, Add	631.43	
		For >50 To 100, Add	315.71	
		For >500 To 1,000, Deduct	-117.31	
		For >1,000 To 2,000, Deduct	-177.65	
		For >2,000 To 5,000, Deduct	-291.00	
		For >5,000, Deduct	-482.74	

33 01 30 72-0161 25.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0162 LF 25.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	582.04	
For Vinylster Resin, Add	383.80	
For Epoxy Resin, Add	45.23	
For Up To >10, Add	375.42	
For >10 To 25, Add	221.47	
For >25 To 50, Add	160.30	
For >50 To 100, Add	80.15	
For >500 To 1,000, Deduct	-29.95	
For >1,000 To 2,000, Deduct	-45.34	
For >2,000 To 5,000, Deduct	-74.23	
For >5,000, Deduct	-123.16	
33 01 30 72-0163 LF 25.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	668.76	
For Vinylster Resin, Add	441.37	
For Epoxy Resin, Add	52.02	
For Up To >10, Add	429.96	
For >10 To 25, Add	253.21	
For >25 To 50, Add	183.45	
For >50 To 100, Add	91.73	
For >500 To 1,000, Deduct	-34.39	
For >1,000 To 2,000, Deduct	-52.07	
For >2,000 To 5,000, Deduct	-85.22	
For >5,000, Deduct	-141.40	
33 01 30 72-0164 LF 25.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	756.05	
For Vinylster Resin, Add	498.96	
For Epoxy Resin, Add	58.81	
For Up To >10, Add	486.15	
For >10 To 25, Add	286.33	
For >25 To 50, Add	207.44	
For >50 To 100, Add	103.72	
For >500 To 1,000, Deduct	-38.88	
For >1,000 To 2,000, Deduct	-58.87	
For >2,000 To 5,000, Deduct	-96.35	
For >5,000, Deduct	-159.86	
33 01 30 72-0165 LF 25.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	843.18	
For Vinylster Resin, Add	556.54	
For Epoxy Resin, Add	65.59	
For Up To >10, Add	541.92	
For >10 To 25, Add	319.09	
For >25 To 50, Add	231.21	
For >50 To 100, Add	115.60	
For >500 To 1,000, Deduct	-43.36	
For >1,000 To 2,000, Deduct	-65.65	
For >2,000 To 5,000, Deduct	-107.44	
For >5,000, Deduct	-178.26	
33 01 30 72-0166 LF 25.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,017.72	
For Vinylster Resin, Add	671.69	
For Epoxy Resin, Add	79.16	
For Up To >10, Add	654.26	
For >10 To 25, Add	385.29	
For >25 To 50, Add	279.15	
For >50 To 100, Add	139.58	
For >500 To 1,000, Deduct	-52.34	
For >1,000 To 2,000, Deduct	-79.24	
For >2,000 To 5,000, Deduct	-129.69	
For >5,000, Deduct	-215.18	
33 01 30 72-0167 LF 25.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,192.15	
For Vinylster Resin, Add	786.86	
For Epoxy Resin, Add	92.74	
For Up To >10, Add	766.25	
For >10 To 25, Add	451.20	
For >25 To 50, Add	326.92	
For >50 To 100, Add	163.46	
For >500 To 1,000, Deduct	-61.31	
For >1,000 To 2,000, Deduct	-92.81	
For >2,000 To 5,000, Deduct	-151.91	
For >5,000, Deduct	-252.04	
33 01 30 72-0168 LF 25.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,366.70	
For Vinylster Resin, Add	902.02	
For Epoxy Resin, Add	106.31	
For Up To >10, Add	878.60	
For >10 To 25, Add	517.40	
For >25 To 50, Add	374.87	
For >50 To 100, Add	187.44	
For >500 To 1,000, Deduct	-70.29	
For >1,000 To 2,000, Deduct	-106.41	
For >2,000 To 5,000, Deduct	-174.16	
For >5,000, Deduct	-288.96	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0169	LF	25.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,541.11	
		For Vinlyester Resin, Add	1,017.18	
		For Epoxy Resin, Add	119.88	
		For Up To >10, Add	990.53	
		For >10 To 25, Add	583.26	
		For >25 To 50, Add	422.61	
		For >50 To 100, Add	211.30	
		For >500 To 1,000, Deduct	-79.26	
		For >1,000 To 2,000, Deduct	-119.98	
		For >2,000 To 5,000, Deduct	-196.37	
		For >5,000, Deduct	-325.82	
33 01 30 72-0170	LF	25.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,715.66	
		For Vinlyester Resin, Add	1,132.35	
		For Epoxy Resin, Add	133.46	
		For Up To >10, Add	1,102.88	
		For >10 To 25, Add	649.46	
		For >25 To 50, Add	470.56	
		For >50 To 100, Add	235.28	
		For >500 To 1,000, Deduct	-88.23	
		For >1,000 To 2,000, Deduct	-133.58	
		For >2,000 To 5,000, Deduct	-218.62	
		For >5,000, Deduct	-362.74	
33 01 30 72-0171	LF	25.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,894.55	
		For Vinlyester Resin, Add	1,247.51	
		For Epoxy Resin, Add	147.03	
		For Up To >10, Add	1,228.28	
		For >10 To 25, Add	726.54	
		For >25 To 50, Add	525.03	
		For >50 To 100, Add	262.52	
		For >500 To 1,000, Deduct	-97.54	
		For >1,000 To 2,000, Deduct	-147.71	
		For >2,000 To 5,000, Deduct	-241.96	
		For >5,000, Deduct	-401.39	
33 01 30 72-0172	LF	25.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,069.51	
		For Vinlyester Resin, Add	1,362.67	
		For Epoxy Resin, Add	160.60	
		For Up To >10, Add	1,341.86	
		For >10 To 25, Add	793.77	
		For >25 To 50, Add	573.59	
		For >50 To 100, Add	286.80	
		For >500 To 1,000, Deduct	-106.55	
		For >1,000 To 2,000, Deduct	-161.36	
		For >2,000 To 5,000, Deduct	-264.31	
		For >5,000, Deduct	-438.47	
33 01 30 72-0173	LF	25.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,244.32	
		For Vinlyester Resin, Add	1,477.83	
		For Epoxy Resin, Add	174.17	
		For Up To >10, Add	1,455.01	
		For >10 To 25, Add	860.65	
		For >25 To 50, Add	621.95	
		For >50 To 100, Add	310.97	
		For >500 To 1,000, Deduct	-115.54	
		For >1,000 To 2,000, Deduct	-174.98	
		For >2,000 To 5,000, Deduct	-286.63	
		For >5,000, Deduct	-475.49	
33 01 30 72-0174	LF	25.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,419.29	
		For Vinlyester Resin, Add	1,592.99	
		For Epoxy Resin, Add	187.75	
		For Up To >10, Add	1,568.62	
		For >10 To 25, Add	927.90	
		For >25 To 50, Add	670.53	
		For >50 To 100, Add	335.26	
		For >500 To 1,000, Deduct	-124.55	
		For >1,000 To 2,000, Deduct	-188.63	
		For >2,000 To 5,000, Deduct	-308.98	
		For >5,000, Deduct	-512.58	
33 01 30 72-0175		27mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015).....	613.52	
33 01 30 72-0176	LF	27mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	613.52	
		For Vinlyester Resin, Add	405.17	
		For Epoxy Resin, Add	47.75	
		For Up To >10, Add	393.54	
		For >10 To 25, Add	231.48	
		For >25 To 50, Add	167.83	
		For >50 To 100, Add	83.91	
		For >500 To 1,000, Deduct	-31.54	
		For >1,000 To 2,000, Deduct	-47.75	
		For >2,000 To 5,000, Deduct	-78.13	
		For >5,000, Deduct	-129.65	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0177 LF 27mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	705.91	
For Vinlyester Resin, Add	466.14	
For Epoxy Resin, Add	54.94	
For Up To >10, Add	452.96	
For >10 To 25, Add	266.48	
For >25 To 50, Add	193.18	
For >50 To 100, Add	96.59	
For >500 To 1,000, Deduct	-36.30	
For >1,000 To 2,000, Deduct	-54.94	
For >2,000 To 5,000, Deduct	-89.91	
For >5,000, Deduct	-149.18	
33 01 30 72-0178 LF 27mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	798.29	
For Vinlyester Resin, Add	527.11	
For Epoxy Resin, Add	62.12	
For Up To >10, Add	512.35	
For >10 To 25, Add	301.45	
For >25 To 50, Add	218.52	
For >50 To 100, Add	109.26	
For >500 To 1,000, Deduct	-41.05	
For >1,000 To 2,000, Deduct	-62.14	
For >2,000 To 5,000, Deduct	-101.68	
For >5,000, Deduct	-168.71	
33 01 30 72-0179 LF 27mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	890.55	
For Vinlyester Resin, Add	588.08	
For Epoxy Resin, Add	69.31	
For Up To >10, Add	571.38	
For >10 To 25, Add	336.13	
For >25 To 50, Add	243.68	
For >50 To 100, Add	121.84	
For >500 To 1,000, Deduct	-45.79	
For >1,000 To 2,000, Deduct	-69.31	
For >2,000 To 5,000, Deduct	-113.42	
For >5,000, Deduct	-188.20	
33 01 30 72-0180 LF 27mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,075.18	
For Vinlyester Resin, Add	710.01	
For Epoxy Resin, Add	83.68	
For Up To >10, Add	689.79	
For >10 To 25, Add	405.78	
For >25 To 50, Add	294.18	
For >50 To 100, Add	147.09	
For >500 To 1,000, Deduct	-55.28	
For >1,000 To 2,000, Deduct	-83.68	
For >2,000 To 5,000, Deduct	-136.94	
For >5,000, Deduct	-227.21	
33 01 30 72-0181 LF 27mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,259.94	
For Vinlyester Resin, Add	831.94	
For Epoxy Resin, Add	98.05	
For Up To >10, Add	808.60	
For >10 To 25, Add	475.75	
For >25 To 50, Add	344.87	
For >50 To 100, Add	172.44	
For >500 To 1,000, Deduct	-64.78	
For >1,000 To 2,000, Deduct	-98.07	
For >2,000 To 5,000, Deduct	-160.48	
For >5,000, Deduct	-266.28	
33 01 30 72-0182 LF 27mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,444.58	
For Vinlyester Resin, Add	953.88	
For Epoxy Resin, Add	112.42	
For Up To >10, Add	927.02	
For >10 To 25, Add	545.40	
For >25 To 50, Add	395.37	
For >50 To 100, Add	197.69	
For >500 To 1,000, Deduct	-74.28	
For >1,000 To 2,000, Deduct	-112.44	
For >2,000 To 5,000, Deduct	-184.00	
For >5,000, Deduct	-305.29	
33 01 30 72-0183 LF 27mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,629.21	
For Vinlyester Resin, Add	1,075.82	
For Epoxy Resin, Add	126.79	
For Up To >10, Add	1,045.43	
For >10 To 25, Add	615.05	
For >25 To 50, Add	445.87	
For >50 To 100, Add	222.94	
For >500 To 1,000, Deduct	-83.77	
For >1,000 To 2,000, Deduct	-126.81	
For >2,000 To 5,000, Deduct	-207.51	
For >5,000, Deduct	-344.31	



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		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0184	LF	27mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,813.84	
		For Vinlyester Resin, Add	1,197.75	
		For Epoxy Resin, Add	141.16	
		For Up To >10, Add	1,163.85	
		For >10 To 25, Add	684.69	
		For >25 To 50, Add	496.37	
		For >50 To 100, Add	248.18	
		For >500 To 1,000, Deduct	-93.26	
		For >1,000 To 2,000, Deduct	-141.18	
		For >2,000 To 5,000, Deduct	-231.02	
		For >5,000, Deduct	-383.32	
33 01 30 72-0185	LF	27mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,004.18	
		For Vinlyester Resin, Add	1,319.69	
		For Epoxy Resin, Add	155.53	
		For Up To >10, Add	1,299.37	
		For >10 To 25, Add	768.59	
		For >25 To 50, Add	555.42	
		For >50 To 100, Add	277.71	
		For >500 To 1,000, Deduct	-103.18	
		For >1,000 To 2,000, Deduct	-156.26	
		For >2,000 To 5,000, Deduct	-255.96	
		For >5,000, Deduct	-424.62	
33 01 30 72-0186	LF	27mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,189.35	
		For Vinlyester Resin, Add	1,441.62	
		For Epoxy Resin, Add	169.91	
		For Up To >10, Add	1,419.40	
		For >10 To 25, Add	839.59	
		For >25 To 50, Add	606.73	
		For >50 To 100, Add	303.36	
		For >500 To 1,000, Deduct	-112.71	
		For >1,000 To 2,000, Deduct	-170.70	
		For >2,000 To 5,000, Deduct	-279.61	
		For >5,000, Deduct	-463.85	
33 01 30 72-0187	LF	27mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,374.52	
		For Vinlyester Resin, Add	1,563.56	
		For Epoxy Resin, Add	184.28	
		For Up To >10, Add	1,539.44	
		For >10 To 25, Add	910.59	
		For >25 To 50, Add	658.04	
		For >50 To 100, Add	329.02	
		For >500 To 1,000, Deduct	-122.25	
		For >1,000 To 2,000, Deduct	-185.13	
		For >2,000 To 5,000, Deduct	-303.26	
		For >5,000, Deduct	-503.08	
33 01 30 72-0188	LF	27mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,559.70	
		For Vinlyester Resin, Add	1,685.50	
		For Epoxy Resin, Add	198.65	
		For Up To >10, Add	1,659.48	
		For >10 To 25, Add	981.59	
		For >25 To 50, Add	709.35	
		For >50 To 100, Add	354.67	
		For >500 To 1,000, Deduct	-131.78	
		For >1,000 To 2,000, Deduct	-199.57	
		For >2,000 To 5,000, Deduct	-326.90	
		For >5,000, Deduct	-542.31	
33 01 30 72-0189 28.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)				
33 01 30 72-0190	LF	28.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	742.59	
		For Vinlyester Resin, Add	490.77	
		For Epoxy Resin, Add	57.84	
		For Up To >10, Add	475.02	
		For >10 To 25, Add	279.00	
		For >25 To 50, Add	202.46	
		For >50 To 100, Add	101.23	
		For >500 To 1,000, Deduct	-38.17	
		For >1,000 To 2,000, Deduct	-57.77	
		For >2,000 To 5,000, Deduct	-94.50	
		For >5,000, Deduct	-156.82	
33 01 30 72-0191	LF	28.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	840.08	
		For Vinlyester Resin, Add	555.12	
		For Epoxy Resin, Add	65.42	
		For Up To >10, Add	537.67	
		For >10 To 25, Add	315.88	
		For >25 To 50, Add	229.18	
		For >50 To 100, Add	114.59	
		For >500 To 1,000, Deduct	-43.18	
		For >1,000 To 2,000, Deduct	-65.36	
		For >2,000 To 5,000, Deduct	-106.93	
		For >5,000, Deduct	-177.43	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0192 LF 28.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	937.44	
For Vinylster Resin, Add	619.48	
For Epoxy Resin, Add	73.01	
For Up To >10, Add	599.90	
For >10 To 25, Add	352.42	
For >25 To 50, Add	255.70	
For >50 To 100, Add	127.85	
For >500 To 1,000, Deduct	-48.18	
For >1,000 To 2,000, Deduct	-72.93	
For >2,000 To 5,000, Deduct	-119.31	
For >5,000, Deduct	-197.98	
33 01 30 72-0193 LF 28.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,186.50	
For Vinylster Resin, Add	786.23	
For Epoxy Resin, Add	92.66	
For Up To >10, Add	751.53	
For >10 To 25, Add	439.07	
For >25 To 50, Add	319.60	
For >50 To 100, Add	159.80	
For >500 To 1,000, Deduct	-60.91	
For >1,000 To 2,000, Deduct	-92.15	
For >2,000 To 5,000, Deduct	-150.61	
For >5,000, Deduct	-249.96	
33 01 30 72-0194 LF 28.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,327.01	
For Vinylster Resin, Add	876.90	
For Epoxy Resin, Add	103.35	
For Up To >10, Add	849.26	
For >10 To 25, Add	498.93	
For >25 To 50, Add	361.99	
For >50 To 100, Add	181.00	
For >500 To 1,000, Deduct	-68.21	
For >1,000 To 2,000, Deduct	-103.24	
For >2,000 To 5,000, Deduct	-168.90	
For >5,000, Deduct	-280.26	
33 01 30 72-0195 LF 28.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,521.73	
For Vinylster Resin, Add	1,005.61	
For Epoxy Resin, Add	118.52	
For Up To >10, Add	973.74	
For >10 To 25, Add	572.02	
For >25 To 50, Add	415.04	
For >50 To 100, Add	207.52	
For >500 To 1,000, Deduct	-78.22	
For >1,000 To 2,000, Deduct	-118.39	
For >2,000 To 5,000, Deduct	-193.68	
For >5,000, Deduct	-321.38	
33 01 30 72-0196 LF 28.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,716.44	
For Vinylster Resin, Add	1,134.32	
For Epoxy Resin, Add	133.69	
For Up To >10, Add	1,098.20	
For >10 To 25, Add	645.09	
For >25 To 50, Add	468.08	
For >50 To 100, Add	234.04	
For >500 To 1,000, Deduct	-88.22	
For >1,000 To 2,000, Deduct	-133.53	
For >2,000 To 5,000, Deduct	-218.45	
For >5,000, Deduct	-362.49	
33 01 30 72-0197 LF 28.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,911.16	
For Vinylster Resin, Add	1,263.02	
For Epoxy Resin, Add	148.86	
For Up To >10, Add	1,222.68	
For >10 To 25, Add	718.18	
For >25 To 50, Add	521.12	
For >50 To 100, Add	260.56	
For >500 To 1,000, Deduct	-98.23	
For >1,000 To 2,000, Deduct	-148.68	
For >2,000 To 5,000, Deduct	-243.23	
For >5,000, Deduct	-403.60	
33 01 30 72-0198 LF 28.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,111.84	
For Vinylster Resin, Add	1,391.73	
For Epoxy Resin, Add	164.03	
For Up To >10, Add	1,365.05	
For >10 To 25, Add	806.17	
For >25 To 50, Add	583.11	
For >50 To 100, Add	291.56	
For >500 To 1,000, Deduct	-108.68	
For >1,000 To 2,000, Deduct	-164.57	
For >2,000 To 5,000, Deduct	-269.50	
For >5,000, Deduct	-447.10	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0199	LF		28.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,307.10	
			For Vinlyester Resin, Add	1,520.44	
			For Epoxy Resin, Add	179.19	
			For Up To >10, Add	1,491.15	
			For >10 To 25, Add	880.62	
			For >25 To 50, Add	636.97	
			For >50 To 100, Add	318.49	
			For >500 To 1,000, Deduct	-118.73	
			For >1,000 To 2,000, Deduct	-179.78	
			For >2,000 To 5,000, Deduct	-294.41	
			For >5,000, Deduct	-488.43	
33 01 30 72-0200	LF		28.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,502.49	
			For Vinlyester Resin, Add	1,649.15	
			For Epoxy Resin, Add	194.36	
			For Up To >10, Add	1,617.65	
			For >10 To 25, Add	955.38	
			For >25 To 50, Add	691.03	
			For >50 To 100, Add	345.51	
			For >500 To 1,000, Deduct	-128.79	
			For >1,000 To 2,000, Deduct	-195.01	
			For >2,000 To 5,000, Deduct	-319.35	
			For >5,000, Deduct	-529.81	
33 01 30 72-0201	LF		28.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,697.76	
			For Vinlyester Resin, Add	1,777.86	
			For Epoxy Resin, Add	209.53	
			For Up To >10, Add	1,743.78	
			For >10 To 25, Add	1,029.85	
			For >25 To 50, Add	744.90	
			For >50 To 100, Add	372.45	
			For >500 To 1,000, Deduct	-138.84	
			For >1,000 To 2,000, Deduct	-210.23	
			For >2,000 To 5,000, Deduct	-344.27	
			For >5,000, Deduct	-571.14	
33 01 30 72-0202			30mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0203	LF		30mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	779.08	
			For Vinlyester Resin, Add	515.27	
			For Epoxy Resin, Add	60.73	
			For Up To >10, Add	496.99	
			For >10 To 25, Add	291.48	
			For >25 To 50, Add	211.69	
			For >50 To 100, Add	105.85	
			For >500 To 1,000, Deduct	-40.03	
			For >1,000 To 2,000, Deduct	-60.58	
			For >2,000 To 5,000, Deduct	-99.08	
			For >5,000, Deduct	-164.41	
33 01 30 72-0204	LF		30mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	881.55	
			For Vinlyester Resin, Add	583.01	
			For Epoxy Resin, Add	68.71	
			For Up To >10, Add	562.48	
			For >10 To 25, Add	329.92	
			For >25 To 50, Add	239.59	
			For >50 To 100, Add	119.80	
			For >500 To 1,000, Deduct	-45.29	
			For >1,000 To 2,000, Deduct	-68.55	
			For >2,000 To 5,000, Deduct	-112.11	
			For >5,000, Deduct	-186.05	
33 01 30 72-0205	LF		30mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	984.01	
			For Vinlyester Resin, Add	650.75	
			For Epoxy Resin, Add	76.70	
			For Up To >10, Add	627.93	
			For >10 To 25, Add	368.34	
			For >25 To 50, Add	267.48	
			For >50 To 100, Add	133.74	
			For >500 To 1,000, Deduct	-50.56	
			For >1,000 To 2,000, Deduct	-76.52	
			For >2,000 To 5,000, Deduct	-125.15	
			For >5,000, Deduct	-207.68	
33 01 30 72-0206	LF		30mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,188.81	
			For Vinlyester Resin, Add	786.23	
			For Epoxy Resin, Add	92.66	
			For Up To >10, Add	758.46	
			For >10 To 25, Add	444.85	
			For >25 To 50, Add	323.07	
			For >50 To 100, Add	161.53	
			For >500 To 1,000, Deduct	-61.08	
			For >1,000 To 2,000, Deduct	-92.44	
			For >2,000 To 5,000, Deduct	-151.19	
			For >5,000, Deduct	-250.89	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0207 LF 30mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,393.74	
For Vinlyester Resin, Add	921.71	
For Epoxy Resin, Add	108.63	
For Up To >10, Add	889.40	
For >10 To 25, Add	521.71	
For >25 To 50, Add	378.86	
For >50 To 100, Add	189.43	
For >500 To 1,000, Deduct	-71.61	
For >1,000 To 2,000, Deduct	-108.38	
For >2,000 To 5,000, Deduct	-177.26	
For >5,000, Deduct	-294.15	
33 01 30 72-0208 LF 30mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,598.54	
For Vinlyester Resin, Add	1,057.20	
For Epoxy Resin, Add	124.60	
For Up To >10, Add	1,019.92	
For >10 To 25, Add	598.22	
For >25 To 50, Add	434.45	
For >50 To 100, Add	217.22	
For >500 To 1,000, Deduct	-82.13	
For >1,000 To 2,000, Deduct	-124.30	
For >2,000 To 5,000, Deduct	-203.30	
For >5,000, Deduct	-337.36	
33 01 30 72-0209 LF 30mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,803.48	
For Vinlyester Resin, Add	1,192.68	
For Epoxy Resin, Add	140.57	
For Up To >10, Add	1,150.87	
For >10 To 25, Add	675.08	
For >25 To 50, Add	490.24	
For >50 To 100, Add	245.12	
For >500 To 1,000, Deduct	-92.67	
For >1,000 To 2,000, Deduct	-140.24	
For >2,000 To 5,000, Deduct	-229.37	
For >5,000, Deduct	-380.63	
33 01 30 72-0210 LF 30mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,008.29	
For Vinlyester Resin, Add	1,328.17	
For Epoxy Resin, Add	156.53	
For Up To >10, Add	1,281.42	
For >10 To 25, Add	751.62	
For >25 To 50, Add	545.84	
For >50 To 100, Add	272.92	
For >500 To 1,000, Deduct	-103.19	
For >1,000 To 2,000, Deduct	-156.17	
For >2,000 To 5,000, Deduct	-255.41	
For >5,000, Deduct	-423.84	
33 01 30 72-0211 LF 30mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,219.33	
For Vinlyester Resin, Add	1,463.65	
For Epoxy Resin, Add	172.50	
For Up To >10, Add	1,430.67	
For >10 To 25, Add	843.73	
For >25 To 50, Add	610.79	
For >50 To 100, Add	305.39	
For >500 To 1,000, Deduct	-114.18	
For >1,000 To 2,000, Deduct	-172.87	
For >2,000 To 5,000, Deduct	-283.01	
For >5,000, Deduct	-469.55	
33 01 30 72-0212 LF 30mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,424.67	
For Vinlyester Resin, Add	1,599.14	
For Epoxy Resin, Add	188.47	
For Up To >10, Add	1,562.81	
For >10 To 25, Add	921.60	
For >25 To 50, Add	667.18	
For >50 To 100, Add	333.59	
For >500 To 1,000, Deduct	-124.74	
For >1,000 To 2,000, Deduct	-188.86	
For >2,000 To 5,000, Deduct	-309.19	
For >5,000, Deduct	-512.97	
33 01 30 72-0213 LF 30mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,630.15	
For Vinlyester Resin, Add	1,734.62	
For Epoxy Resin, Add	204.44	
For Up To >10, Add	1,695.38	
For >10 To 25, Add	999.81	
For >25 To 50, Add	723.79	
For >50 To 100, Add	361.89	
For >500 To 1,000, Deduct	-135.31	
For >1,000 To 2,000, Deduct	-204.87	
For >2,000 To 5,000, Deduct	-335.39	
For >5,000, Deduct	-556.45	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0214	LF		30mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,835.63	
			For Vinlyester Resin, Add	1,870.10	
			For Epoxy Resin, Add	220.40	
			For Up To >10, Add	1,827.97	
			For >10 To 25, Add	1,078.04	
			For >25 To 50, Add	780.40	
			For >50 To 100, Add	390.20	
			For >500 To 1,000, Deduct	-145.88	
			For >1,000 To 2,000, Deduct	-220.88	
			For >2,000 To 5,000, Deduct	-361.60	
			For >5,000, Deduct	-599.94	
33 01 30 72-0215	LF		30mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,040.97	
			For Vinlyester Resin, Add	2,005.58	
			For Epoxy Resin, Add	236.37	
			For Up To >10, Add	1,960.11	
			For >10 To 25, Add	1,155.91	
			For >25 To 50, Add	836.80	
			For >50 To 100, Add	418.40	
			For >500 To 1,000, Deduct	-156.44	
			For >1,000 To 2,000, Deduct	-236.87	
			For >2,000 To 5,000, Deduct	-387.78	
			For >5,000, Deduct	-643.36	
33 01 30 72-0216	LF		30mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,246.45	
			For Vinlyester Resin, Add	2,141.07	
			For Epoxy Resin, Add	252.34	
			For Up To >10, Add	2,092.68	
			For >10 To 25, Add	1,234.12	
			For >25 To 50, Add	893.40	
			For >50 To 100, Add	446.70	
			For >500 To 1,000, Deduct	-167.02	
			For >1,000 To 2,000, Deduct	-252.87	
			For >2,000 To 5,000, Deduct	-413.99	
			For >5,000, Deduct	-686.85	
33 01 30 72-0217			31.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0218	LF		31.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	815.37	
			For Vinlyester Resin, Add	539.63	
			For Epoxy Resin, Add	63.60	
			For Up To >10, Add	518.86	
			For >10 To 25, Add	303.90	
			For >25 To 50, Add	220.89	
			For >50 To 100, Add	110.44	
			For >500 To 1,000, Deduct	-41.88	
			For >1,000 To 2,000, Deduct	-63.38	
			For >2,000 To 5,000, Deduct	-103.63	
			For >5,000, Deduct	-171.97	
33 01 30 72-0219	LF		31.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	922.81	
			For Vinlyester Resin, Add	610.76	
			For Epoxy Resin, Add	71.98	
			For Up To >10, Add	587.16	
			For >10 To 25, Add	343.88	
			For >25 To 50, Add	249.95	
			For >50 To 100, Add	124.98	
			For >500 To 1,000, Deduct	-47.40	
			For >1,000 To 2,000, Deduct	-71.73	
			For >2,000 To 5,000, Deduct	-117.28	
			For >5,000, Deduct	-194.62	
33 01 30 72-0220	LF		31.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,030.25	
			For Vinlyester Resin, Add	681.88	
			For Epoxy Resin, Add	80.36	
			For Up To >10, Add	655.45	
			For >10 To 25, Add	383.86	
			For >25 To 50, Add	279.02	
			For >50 To 100, Add	139.51	
			For >500 To 1,000, Deduct	-52.92	
			For >1,000 To 2,000, Deduct	-80.08	
			For >2,000 To 5,000, Deduct	-130.93	
			For >5,000, Deduct	-217.28	
33 01 30 72-0221	LF		31.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,245.27	
			For Vinlyester Resin, Add	824.15	
			For Epoxy Resin, Add	97.13	
			For Up To >10, Add	792.44	
			For >10 To 25, Add	464.14	
			For >25 To 50, Add	337.35	
			For >50 To 100, Add	168.68	
			For >500 To 1,000, Deduct	-63.96	
			For >1,000 To 2,000, Deduct	-96.79	
			For >2,000 To 5,000, Deduct	-158.26	
			For >5,000, Deduct	-262.64	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0222 LF 31.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,460.16	
For Vinylster Resin, Add	966.40	
For Epoxy Resin, Add	113.90	
For Up To >10, Add	929.06	
For >10 To 25, Add	544.12	
For >25 To 50, Add	395.50	
For >50 To 100, Add	197.75	
For >500 To 1,000, Deduct	-75.00	
For >1,000 To 2,000, Deduct	-113.49	
For >2,000 To 5,000, Deduct	-185.57	
For >5,000, Deduct	-307.95	
33 01 30 72-0223 LF 31.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,675.18	
For Vinylster Resin, Add	1,108.66	
For Epoxy Resin, Add	130.66	
For Up To >10, Add	1,066.04	
For >10 To 25, Add	624.40	
For >25 To 50, Add	453.83	
For >50 To 100, Add	226.92	
For >500 To 1,000, Deduct	-86.04	
For >1,000 To 2,000, Deduct	-130.21	
For >2,000 To 5,000, Deduct	-212.90	
For >5,000, Deduct	-353.31	
33 01 30 72-0224 LF 31.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,890.06	
For Vinylster Resin, Add	1,250.91	
For Epoxy Resin, Add	147.43	
For Up To >10, Add	1,202.63	
For >10 To 25, Add	704.36	
For >25 To 50, Add	511.96	
For >50 To 100, Add	255.98	
For >500 To 1,000, Deduct	-97.08	
For >1,000 To 2,000, Deduct	-146.91	
For >2,000 To 5,000, Deduct	-240.20	
For >5,000, Deduct	-398.62	
33 01 30 72-0225 LF 31.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,104.95	
For Vinylster Resin, Add	1,393.18	
For Epoxy Resin, Add	164.20	
For Up To >10, Add	1,339.23	
For >10 To 25, Add	784.31	
For >25 To 50, Add	570.10	
For >50 To 100, Add	285.05	
For >500 To 1,000, Deduct	-108.12	
For >1,000 To 2,000, Deduct	-163.61	
For >2,000 To 5,000, Deduct	-267.51	
For >5,000, Deduct	-443.93	
33 01 30 72-0226 LF 31.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,326.36	
For Vinylster Resin, Add	1,535.44	
For Epoxy Resin, Add	180.96	
For Up To >10, Add	1,495.38	
For >10 To 25, Add	880.57	
For >25 To 50, Add	638.02	
For >50 To 100, Add	319.01	
For >500 To 1,000, Deduct	-119.64	
For >1,000 To 2,000, Deduct	-181.12	
For >2,000 To 5,000, Deduct	-296.44	
For >5,000, Deduct	-491.85	
33 01 30 72-0227 LF 31.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,558.42	
For Vinylster Resin, Add	1,689.15	
For Epoxy Resin, Add	199.08	
For Up To >10, Add	1,642.59	
For >10 To 25, Add	966.64	
For >25 To 50, Add	700.64	
For >50 To 100, Add	350.32	
For >500 To 1,000, Deduct	-131.55	
For >1,000 To 2,000, Deduct	-199.15	
For >2,000 To 5,000, Deduct	-325.91	
For >5,000, Deduct	-540.75	
33 01 30 72-0228 LF 31.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,757.34	
For Vinylster Resin, Add	1,819.95	
For Epoxy Resin, Add	214.49	
For Up To >10, Add	1,772.20	
For >10 To 25, Add	1,043.51	
For >25 To 50, Add	756.10	
For >50 To 100, Add	378.05	
For >500 To 1,000, Deduct	-141.80	
For >1,000 To 2,000, Deduct	-214.67	
For >2,000 To 5,000, Deduct	-351.34	
For >5,000, Deduct	-582.95	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0229	LF		31.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,972.90	
			For Vinlyester Resin, Add	1,962.21	
			For Epoxy Resin, Add	231.26	
			For Up To >10, Add	1,910.83	
			For >10 To 25, Add	1,125.16	
			For >25 To 50, Add	815.26	
			For >50 To 100, Add	407.63	
			For >500 To 1,000, Deduct	-152.89	
			For >1,000 To 2,000, Deduct	-231.46	
			For >2,000 To 5,000, Deduct	-378.82	
			For >5,000, Deduct	-628.53	
33 01 30 72-0230	LF		31.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,188.33	
			For Vinlyester Resin, Add	2,104.47	
			For Epoxy Resin, Add	248.03	
			For Up To >10, Add	2,049.04	
			For >10 To 25, Add	1,206.47	
			For >25 To 50, Add	874.20	
			For >50 To 100, Add	437.10	
			For >500 To 1,000, Deduct	-163.97	
			For >1,000 To 2,000, Deduct	-248.22	
			For >2,000 To 5,000, Deduct	-406.25	
			For >5,000, Deduct	-674.06	
33 01 30 72-0231	LF		31.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,403.89	
			For Vinlyester Resin, Add	2,246.72	
			For Epoxy Resin, Add	264.79	
			For Up To >10, Add	2,187.67	
			For >10 To 25, Add	1,288.13	
			For >25 To 50, Add	933.36	
			For >50 To 100, Add	466.68	
			For >500 To 1,000, Deduct	-175.05	
			For >1,000 To 2,000, Deduct	-265.01	
			For >2,000 To 5,000, Deduct	-433.72	
			For >5,000, Deduct	-719.64	
33 01 30 72-0232			33mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0233	LF		33mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	851.34	
			For Vinlyester Resin, Add	563.86	
			For Epoxy Resin, Add	66.45	
			For Up To >10, Add	540.25	
			For >10 To 25, Add	315.95	
			For >25 To 50, Add	229.85	
			For >50 To 100, Add	114.92	
			For >500 To 1,000, Deduct	-43.71	
			For >1,000 To 2,000, Deduct	-66.14	
			For >2,000 To 5,000, Deduct	-108.12	
			For >5,000, Deduct	-179.43	
33 01 30 72-0234	LF		33mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	963.88	
			For Vinlyester Resin, Add	638.37	
			For Epoxy Resin, Add	75.24	
			For Up To >10, Add	611.74	
			For >10 To 25, Add	357.79	
			For >25 To 50, Add	260.27	
			For >50 To 100, Add	130.14	
			For >500 To 1,000, Deduct	-49.49	
			For >1,000 To 2,000, Deduct	-74.89	
			For >2,000 To 5,000, Deduct	-122.42	
			For >5,000, Deduct	-203.16	
33 01 30 72-0235	LF		33mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,076.30	
			For Vinlyester Resin, Add	712.89	
			For Epoxy Resin, Add	84.02	
			For Up To >10, Add	682.88	
			For >10 To 25, Add	399.33	
			For >25 To 50, Add	290.52	
			For >50 To 100, Add	145.26	
			For >500 To 1,000, Deduct	-55.26	
			For >1,000 To 2,000, Deduct	-83.62	
			For >2,000 To 5,000, Deduct	-136.68	
			For >5,000, Deduct	-226.84	
33 01 30 72-0236	LF		33mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,301.42	
			For Vinlyester Resin, Add	861.92	
			For Epoxy Resin, Add	101.58	
			For Up To >10, Add	825.96	
			For >10 To 25, Add	483.08	
			For >25 To 50, Add	351.41	
			For >50 To 100, Add	175.71	
			For >500 To 1,000, Deduct	-66.82	
			For >1,000 To 2,000, Deduct	-101.11	
			For >2,000 To 5,000, Deduct	-165.28	
			For >5,000, Deduct	-274.30	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0237 LF 33mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,526.39	
For Vinlyester Resin, Add	1,010.95	
For Epoxy Resin, Add	119.15	
For Up To >10, Add	968.62	
For >10 To 25, Add	566.48	
For >25 To 50, Add	412.10	
For >50 To 100, Add	206.05	
For >500 To 1,000, Deduct	-78.37	
For >1,000 To 2,000, Deduct	-118.59	
For >2,000 To 5,000, Deduct	-193.85	
For >5,000, Deduct	-321.71	
33 01 30 72-0238 LF 33mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,751.49	
For Vinlyester Resin, Add	1,159.99	
For Epoxy Resin, Add	136.71	
For Up To >10, Add	1,111.65	
For >10 To 25, Add	650.18	
For >25 To 50, Add	472.97	
For >50 To 100, Add	236.48	
For >500 To 1,000, Deduct	-89.93	
For >1,000 To 2,000, Deduct	-136.08	
For >2,000 To 5,000, Deduct	-222.45	
For >5,000, Deduct	-369.17	
33 01 30 72-0239 LF 33mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,976.46	
For Vinlyester Resin, Add	1,309.02	
For Epoxy Resin, Add	154.28	
For Up To >10, Add	1,254.31	
For >10 To 25, Add	733.58	
For >25 To 50, Add	533.65	
For >50 To 100, Add	266.83	
For >500 To 1,000, Deduct	-101.48	
For >1,000 To 2,000, Deduct	-153.56	
For >2,000 To 5,000, Deduct	-251.01	
For >5,000, Deduct	-416.58	
33 01 30 72-0240 LF 33mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,201.43	
For Vinlyester Resin, Add	1,458.05	
For Epoxy Resin, Add	171.84	
For Up To >10, Add	1,396.97	
For >10 To 25, Add	816.98	
For >25 To 50, Add	594.34	
For >50 To 100, Add	297.17	
For >500 To 1,000, Deduct	-113.03	
For >1,000 To 2,000, Deduct	-171.03	
For >2,000 To 5,000, Deduct	-279.58	
For >5,000, Deduct	-463.99	
33 01 30 72-0241 LF 33mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,433.03	
For Vinlyester Resin, Add	1,607.08	
For Epoxy Resin, Add	189.41	
For Up To >10, Add	1,559.52	
For >10 To 25, Add	916.96	
For >25 To 50, Add	664.97	
For >50 To 100, Add	332.48	
For >500 To 1,000, Deduct	-125.08	
For >1,000 To 2,000, Deduct	-189.34	
For >2,000 To 5,000, Deduct	-309.80	
For >5,000, Deduct	-514.05	
33 01 30 72-0242 LF 33mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,659.10	
For Vinlyester Resin, Add	1,756.12	
For Epoxy Resin, Add	206.97	
For Up To >10, Add	1,705.45	
For >10 To 25, Add	1,003.09	
For >25 To 50, Add	727.29	
For >50 To 100, Add	363.64	
For >500 To 1,000, Deduct	-136.71	
For >1,000 To 2,000, Deduct	-206.95	
For >2,000 To 5,000, Deduct	-338.64	
For >5,000, Deduct	-561.89	
33 01 30 72-0243 LF 33mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,884.20	
For Vinlyester Resin, Add	1,905.15	
For Epoxy Resin, Add	224.54	
For Up To >10, Add	1,848.50	
For >10 To 25, Add	1,086.81	
For >25 To 50, Add	788.17	
For >50 To 100, Add	394.08	
For >500 To 1,000, Deduct	-148.27	
For >1,000 To 2,000, Deduct	-224.44	
For >2,000 To 5,000, Deduct	-367.24	
For >5,000, Deduct	-609.35	



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		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0244 LF 33mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,109.84	
For Vinlyester Resin, Add	2,054.18	
For Epoxy Resin, Add	242.10	
For Up To >10, Add	1,993.17	
For >10 To 25, Add	1,171.89	
For >25 To 50, Add	849.86	
For >50 To 100, Add	424.93	
For >500 To 1,000, Deduct	-159.87	
For >1,000 To 2,000, Deduct	-242.00	
For >2,000 To 5,000, Deduct	-395.97	
For >5,000, Deduct	-657.03	
33 01 30 72-0245 LF 33mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,335.50	
For Vinlyester Resin, Add	2,203.21	
For Epoxy Resin, Add	259.66	
For Up To >10, Add	2,137.90	
For >10 To 25, Add	1,257.01	
For >25 To 50, Add	911.58	
For >50 To 100, Add	455.79	
For >500 To 1,000, Deduct	-171.48	
For >1,000 To 2,000, Deduct	-259.57	
For >2,000 To 5,000, Deduct	-424.71	
For >5,000, Deduct	-704.71	
33 01 30 72-0246 LF 33mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,561.15	
For Vinlyester Resin, Add	2,352.25	
For Epoxy Resin, Add	277.23	
For Up To >10, Add	2,282.58	
For >10 To 25, Add	1,342.09	
For >25 To 50, Add	973.27	
For >50 To 100, Add	486.64	
For >500 To 1,000, Deduct	-183.08	
For >1,000 To 2,000, Deduct	-277.13	
For >2,000 To 5,000, Deduct	-453.44	
For >5,000, Deduct	-752.39	
33 01 30 72-0247 34.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0248 LF 34.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,004.38	
For Vinlyester Resin, Add	665.86	
For Epoxy Resin, Add	78.48	
For Up To >10, Add	635.07	
For >10 To 25, Add	370.68	
For >25 To 50, Add	269.97	
For >50 To 100, Add	134.99	
For >500 To 1,000, Deduct	-51.55	
For >1,000 To 2,000, Deduct	-77.99	
For >2,000 To 5,000, Deduct	-127.44	
For >5,000, Deduct	-211.51	
33 01 30 72-0249 LF 34.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,121.90	
For Vinlyester Resin, Add	743.76	
For Epoxy Resin, Add	87.66	
For Up To >10, Add	709.43	
For >10 To 25, Add	414.10	
For >25 To 50, Add	301.59	
For >50 To 100, Add	150.79	
For >500 To 1,000, Deduct	-57.58	
For >1,000 To 2,000, Deduct	-87.11	
For >2,000 To 5,000, Deduct	-142.35	
For >5,000, Deduct	-236.26	
33 01 30 72-0250 LF 34.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,356.96	
For Vinlyester Resin, Add	899.57	
For Epoxy Resin, Add	106.02	
For Up To >10, Add	858.13	
For >10 To 25, Add	500.93	
For >25 To 50, Add	364.81	
For >50 To 100, Add	182.41	
For >500 To 1,000, Deduct	-69.64	
For >1,000 To 2,000, Deduct	-105.37	
For >2,000 To 5,000, Deduct	-172.18	
For >5,000, Deduct	-285.76	
33 01 30 72-0251 LF 34.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,591.88	
For Vinlyester Resin, Add	1,055.38	
For Epoxy Resin, Add	124.38	
For Up To >10, Add	1,006.44	
For >10 To 25, Add	587.42	
For >25 To 50, Add	427.84	
For >50 To 100, Add	213.92	
For >500 To 1,000, Deduct	-81.70	
For >1,000 To 2,000, Deduct	-123.60	
For >2,000 To 5,000, Deduct	-201.97	
For >5,000, Deduct	-335.22	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0252 LF 34.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,826.92	
For Vinylster Resin, Add	1,211.18	
For Epoxy Resin, Add	142.75	
For Up To >10, Add	1,155.14	
For >10 To 25, Add	674.24	
For >25 To 50, Add	491.06	
For >50 To 100, Add	245.53	
For >500 To 1,000, Deduct	-93.76	
For >1,000 To 2,000, Deduct	-141.85	
For >2,000 To 5,000, Deduct	-231.80	
For >5,000, Deduct	-384.72	
33 01 30 72-0253 LF 34.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,061.85	
For Vinylster Resin, Add	1,366.99	
For Epoxy Resin, Add	161.11	
For Up To >10, Add	1,303.45	
For >10 To 25, Add	760.74	
For >25 To 50, Add	554.08	
For >50 To 100, Add	277.04	
For >500 To 1,000, Deduct	-105.82	
For >1,000 To 2,000, Deduct	-160.09	
For >2,000 To 5,000, Deduct	-261.59	
For >5,000, Deduct	-434.17	
33 01 30 72-0254 LF 34.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,296.90	
For Vinylster Resin, Add	1,522.79	
For Epoxy Resin, Add	179.47	
For Up To >10, Add	1,452.15	
For >10 To 25, Add	847.56	
For >25 To 50, Add	617.30	
For >50 To 100, Add	308.65	
For >500 To 1,000, Deduct	-117.88	
For >1,000 To 2,000, Deduct	-178.34	
For >2,000 To 5,000, Deduct	-291.42	
For >5,000, Deduct	-483.68	
33 01 30 72-0255 LF 34.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,538.60	
For Vinylster Resin, Add	1,678.60	
For Epoxy Resin, Add	197.84	
For Up To >10, Add	1,620.80	
For >10 To 25, Add	951.00	
For >25 To 50, Add	690.50	
For >50 To 100, Add	345.25	
For >500 To 1,000, Deduct	-130.45	
For >1,000 To 2,000, Deduct	-197.43	
For >2,000 To 5,000, Deduct	-322.91	
For >5,000, Deduct	-535.84	
33 01 30 72-0256 LF 34.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,774.45	
For Vinylster Resin, Add	1,834.40	
For Epoxy Resin, Add	216.20	
For Up To >10, Add	1,771.93	
For >10 To 25, Add	1,039.84	
For >25 To 50, Add	754.93	
For >50 To 100, Add	377.47	
For >500 To 1,000, Deduct	-142.57	
For >1,000 To 2,000, Deduct	-215.78	
For >2,000 To 5,000, Deduct	-352.94	
For >5,000, Deduct	-585.67	
33 01 30 72-0257 LF 34.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	3,007.62	
For Vinylster Resin, Add	1,990.21	
For Epoxy Resin, Add	234.56	
For Up To >10, Add	1,914.96	
For >10 To 25, Add	1,121.94	
For >25 To 50, Add	815.32	
For >50 To 100, Add	407.66	
For >500 To 1,000, Deduct	-154.49	
For >1,000 To 2,000, Deduct	-233.79	
For >2,000 To 5,000, Deduct	-382.29	
For >5,000, Deduct	-634.42	
33 01 30 72-0258 LF 34.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	3,245.52	
For Vinylster Resin, Add	2,146.02	
For Epoxy Resin, Add	252.92	
For Up To >10, Add	2,072.21	
For >10 To 25, Add	1,215.89	
For >25 To 50, Add	882.82	
For >50 To 100, Add	441.41	
For >500 To 1,000, Deduct	-166.77	
For >1,000 To 2,000, Deduct	-252.40	
For >2,000 To 5,000, Deduct	-412.83	
For >5,000, Deduct	-685.06	



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		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0259	LF		34.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,481.12	
			For Vinlyester Resin, Add	2,301.82	
			For Epoxy Resin, Add	271.29	
			For Up To >10, Add	2,222.56	
			For >10 To 25, Add	1,304.08	
			For >25 To 50, Add	946.86	
			For >50 To 100, Add	473.43	
			For >500 To 1,000, Deduct	-178.88	
			For >1,000 To 2,000, Deduct	-270.72	
			For >2,000 To 5,000, Deduct	-442.80	
			For >5,000, Deduct	-734.78	
33 01 30 72-0260	LF		34.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,716.72	
			For Vinlyester Resin, Add	2,457.63	
			For Epoxy Resin, Add	289.65	
			For Up To >10, Add	2,372.91	
			For >10 To 25, Add	1,392.28	
			For >25 To 50, Add	1,010.91	
			For >50 To 100, Add	505.46	
			For >500 To 1,000, Deduct	-190.98	
			For >1,000 To 2,000, Deduct	-289.05	
			For >2,000 To 5,000, Deduct	-472.76	
			For >5,000, Deduct	-784.51	
33 01 30 72-0261 36mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)					
33 01 30 72-0262	LF		36mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,044.67	
			For Vinlyester Resin, Add	693.21	
			For Epoxy Resin, Add	81.70	
			For Up To >10, Add	658.26	
			For >10 To 25, Add	383.50	
			For >25 To 50, Add	279.62	
			For >50 To 100, Add	139.81	
			For >500 To 1,000, Deduct	-53.59	
			For >1,000 To 2,000, Deduct	-81.07	
			For >2,000 To 5,000, Deduct	-132.43	
			For >5,000, Deduct	-219.81	
33 01 30 72-0263	LF		36mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,167.16	
			For Vinlyester Resin, Add	774.49	
			For Epoxy Resin, Add	91.28	
			For Up To >10, Add	735.43	
			For >10 To 25, Add	428.46	
			For >25 To 50, Add	312.39	
			For >50 To 100, Add	156.20	
			For >500 To 1,000, Deduct	-59.88	
			For >1,000 To 2,000, Deduct	-90.57	
			For >2,000 To 5,000, Deduct	-147.96	
			For >5,000, Deduct	-245.58	
33 01 30 72-0264	LF		36mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,412.18	
			For Vinlyester Resin, Add	937.08	
			For Epoxy Resin, Add	110.44	
			For Up To >10, Add	889.82	
			For >10 To 25, Add	518.40	
			For >25 To 50, Add	377.97	
			For >50 To 100, Add	188.99	
			For >500 To 1,000, Deduct	-72.45	
			For >1,000 To 2,000, Deduct	-109.59	
			For >2,000 To 5,000, Deduct	-179.02	
			For >5,000, Deduct	-297.13	
33 01 30 72-0265	LF		36mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,657.17	
			For Vinlyester Resin, Add	1,099.66	
			For Epoxy Resin, Add	129.60	
			For Up To >10, Add	1,044.16	
			For >10 To 25, Add	608.31	
			For >25 To 50, Add	443.53	
			For >50 To 100, Add	221.77	
			For >500 To 1,000, Deduct	-85.01	
			For >1,000 To 2,000, Deduct	-128.60	
			For >2,000 To 5,000, Deduct	-210.07	
			For >5,000, Deduct	-348.68	
33 01 30 72-0266	LF		36mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,902.04	
			For Vinlyester Resin, Add	1,262.24	
			For Epoxy Resin, Add	148.76	
			For Up To >10, Add	1,198.12	
			For >10 To 25, Add	697.90	
			For >25 To 50, Add	508.90	
			For >50 To 100, Add	254.45	
			For >500 To 1,000, Deduct	-97.57	
			For >1,000 To 2,000, Deduct	-147.60	
			For >2,000 To 5,000, Deduct	-241.09	
			For >5,000, Deduct	-400.18	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0267	LF		36mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,147.05	
			For Vinylster Resin, Add	1,424.82	
			For Epoxy Resin, Add	167.93	
			For Up To >10, Add	1,352.50	
			For >10 To 25, Add	787.84	
			For >25 To 50, Add	574.48	
			For >50 To 100, Add	287.24	
			For >500 To 1,000, Deduct	-110.14	
			For >1,000 To 2,000, Deduct	-166.61	
			For >2,000 To 5,000, Deduct	-272.15	
			For >5,000, Deduct	-451.73	
33 01 30 72-0268	LF		36mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,392.04	
			For Vinylster Resin, Add	1,587.40	
			For Epoxy Resin, Add	187.09	
			For Up To >10, Add	1,506.85	
			For >10 To 25, Add	877.75	
			For >25 To 50, Add	640.04	
			For >50 To 100, Add	320.02	
			For >500 To 1,000, Deduct	-122.71	
			For >1,000 To 2,000, Deduct	-185.62	
			For >2,000 To 5,000, Deduct	-303.21	
			For >5,000, Deduct	-503.27	
33 01 30 72-0269	LF		36mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,643.96	
			For Vinylster Resin, Add	1,749.98	
			For Epoxy Resin, Add	206.25	
			For Up To >10, Add	1,681.96	
			For >10 To 25, Add	984.97	
			For >25 To 50, Add	715.98	
			For >50 To 100, Add	357.99	
			For >500 To 1,000, Deduct	-135.80	
			For >1,000 To 2,000, Deduct	-205.50	
			For >2,000 To 5,000, Deduct	-335.99	
			For >5,000, Deduct	-557.59	
33 01 30 72-0270	LF		36mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,889.64	
			For Vinylster Resin, Add	1,912.56	
			For Epoxy Resin, Add	225.41	
			For Up To >10, Add	1,838.35	
			For >10 To 25, Add	1,076.58	
			For >25 To 50, Add	782.56	
			For >50 To 100, Add	391.28	
			For >500 To 1,000, Deduct	-148.42	
			For >1,000 To 2,000, Deduct	-224.59	
			For >2,000 To 5,000, Deduct	-367.22	
			For >5,000, Deduct	-609.41	
33 01 30 72-0271	LF		36mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,130.71	
			For Vinylster Resin, Add	2,075.14	
			For Epoxy Resin, Add	244.57	
			For Up To >10, Add	1,980.91	
			For >10 To 25, Add	1,156.67	
			For >25 To 50, Add	842.23	
			For >50 To 100, Add	421.11	
			For >500 To 1,000, Deduct	-160.69	
			For >1,000 To 2,000, Deduct	-243.11	
			For >2,000 To 5,000, Deduct	-397.29	
			For >5,000, Deduct	-659.39	
33 01 30 72-0272	LF		36mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,380.86	
			For Vinylster Resin, Add	2,237.72	
			For Epoxy Resin, Add	263.73	
			For Up To >10, Add	2,150.73	
			For >10 To 25, Add	1,259.49	
			For >25 To 50, Add	915.53	
			For >50 To 100, Add	457.76	
			For >500 To 1,000, Deduct	-173.65	
			For >1,000 To 2,000, Deduct	-262.77	
			For >2,000 To 5,000, Deduct	-429.64	
			For >5,000, Deduct	-713.00	
33 01 30 72-0273	LF		36mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,626.54	
			For Vinylster Resin, Add	2,400.30	
			For Epoxy Resin, Add	282.89	
			For Up To >10, Add	2,307.12	
			For >10 To 25, Add	1,351.10	
			For >25 To 50, Add	982.11	
			For >50 To 100, Add	491.06	
			For >500 To 1,000, Deduct	-186.27	
			For >1,000 To 2,000, Deduct	-281.87	
			For >2,000 To 5,000, Deduct	-460.87	
			For >5,000, Deduct	-764.82	



		Utilities	33	
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0274	LF	36mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,872.23	
		For Vinlyester Resin, Add	2,562.88	
		For Epoxy Resin, Add	302.05	
		For Up To >10, Add	2,463.54	
		For >10 To 25, Add	1,442.74	
		For >25 To 50, Add	1,048.71	
		For >50 To 100, Add	524.35	
		For >500 To 1,000, Deduct	-198.89	
		For >1,000 To 2,000, Deduct	-300.97	
		For >2,000 To 5,000, Deduct	-492.09	
		For >5,000, Deduct	-816.64	
33 01 30 72-0275	LF	36mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,117.78	
		For Vinlyester Resin, Add	2,725.46	
		For Epoxy Resin, Add	321.22	
		For Up To >10, Add	2,619.54	
		For >10 To 25, Add	1,534.03	
		For >25 To 50, Add	1,115.09	
		For >50 To 100, Add	557.55	
		For >500 To 1,000, Deduct	-211.50	
		For >1,000 To 2,000, Deduct	-320.05	
		For >2,000 To 5,000, Deduct	-523.29	
		For >5,000, Deduct	-868.41	
33 01 30 72-0276	LF	36mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,363.46	
		For Vinlyester Resin, Add	2,888.05	
		For Epoxy Resin, Add	340.38	
		For Up To >10, Add	2,775.93	
		For >10 To 25, Add	1,625.65	
		For >25 To 50, Add	1,181.68	
		For >50 To 100, Add	590.84	
		For >500 To 1,000, Deduct	-224.12	
		For >1,000 To 2,000, Deduct	-339.14	
		For >2,000 To 5,000, Deduct	-554.51	
		For >5,000, Deduct	-920.23	
33 01 30 72-0277		37.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0278	LF	37.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,212.10	
		For Vinlyester Resin, Add	805.10	
		For Epoxy Resin, Add	94.89	
		For Up To >10, Add	760.95	
		For >10 To 25, Add	442.44	
		For >25 To 50, Add	322.97	
		For >50 To 100, Add	161.48	
		For >500 To 1,000, Deduct	-62.15	
		For >1,000 To 2,000, Deduct	-94.01	
		For >2,000 To 5,000, Deduct	-153.51	
		For >5,000, Deduct	-254.81	
33 01 30 72-0279	LF	37.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,467.05	
		For Vinlyester Resin, Add	974.46	
		For Epoxy Resin, Add	114.65	
		For Up To >10, Add	920.95	
		For >10 To 25, Add	535.45	
		For >25 To 50, Add	390.87	
		For >50 To 100, Add	195.44	
		For >500 To 1,000, Deduct	-75.23	
		For >1,000 To 2,000, Deduct	-113.78	
		For >2,000 To 5,000, Deduct	-185.79	
		For >5,000, Deduct	-308.40	
33 01 30 72-0280	LF	37.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,722.01	
		For Vinlyester Resin, Add	1,143.81	
		For Epoxy Resin, Add	134.81	
		For Up To >10, Add	1,080.98	
		For >10 To 25, Add	628.48	
		For >25 To 50, Add	458.79	
		For >50 To 100, Add	229.39	
		For >500 To 1,000, Deduct	-88.30	
		For >1,000 To 2,000, Deduct	-133.55	
		For >2,000 To 5,000, Deduct	-218.08	
		For >5,000, Deduct	-362.00	
33 01 30 72-0281	LF	37.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,976.96	
		For Vinlyester Resin, Add	1,313.17	
		For Epoxy Resin, Add	154.77	
		For Up To >10, Add	1,241.01	
		For >10 To 25, Add	721.51	
		For >25 To 50, Add	526.71	
		For >50 To 100, Add	263.35	
		For >500 To 1,000, Deduct	-101.37	
		For >1,000 To 2,000, Deduct	-153.32	
		For >2,000 To 5,000, Deduct	-250.37	
		For >5,000, Deduct	-415.59	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0282 LF 37.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,231.91	
For Vinylster Resin, Add	1,482.52	
For Epoxy Resin, Add	174.73	
For Up To >10, Add	1,401.01	
For >10 To 25, Add	814.52	
For >25 To 50, Add	594.61	
For >50 To 100, Add	297.30	
For >500 To 1,000, Deduct	-114.45	
For >1,000 To 2,000, Deduct	-173.09	
For >2,000 To 5,000, Deduct	-282.65	
For >5,000, Deduct	-469.19	
33 01 30 72-0283 LF 37.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,486.86	
For Vinylster Resin, Add	1,651.87	
For Epoxy Resin, Add	194.69	
For Up To >10, Add	1,561.03	
For >10 To 25, Add	907.56	
For >25 To 50, Add	662.52	
For >50 To 100, Add	331.26	
For >500 To 1,000, Deduct	-127.52	
For >1,000 To 2,000, Deduct	-192.87	
For >2,000 To 5,000, Deduct	-314.94	
For >5,000, Deduct	-522.78	
33 01 30 72-0284 LF 37.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,748.86	
For Vinylster Resin, Add	1,821.23	
For Epoxy Resin, Add	214.64	
For Up To >10, Add	1,742.21	
For >10 To 25, Add	1,018.21	
For >25 To 50, Add	741.02	
For >50 To 100, Add	370.51	
For >500 To 1,000, Deduct	-141.12	
For >1,000 To 2,000, Deduct	-213.52	
For >2,000 To 5,000, Deduct	-348.99	
For >5,000, Deduct	-579.19	
33 01 30 72-0285 LF 37.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	3,004.49	
For Vinylster Resin, Add	1,990.58	
For Epoxy Resin, Add	234.60	
For Up To >10, Add	1,904.25	
For >10 To 25, Add	1,112.92	
For >25 To 50, Add	809.94	
For >50 To 100, Add	404.97	
For >500 To 1,000, Deduct	-154.24	
For >1,000 To 2,000, Deduct	-233.38	
For >2,000 To 5,000, Deduct	-381.44	
For >5,000, Deduct	-633.06	
33 01 30 72-0286 LF 37.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	3,257.82	
For Vinylster Resin, Add	2,159.94	
For Epoxy Resin, Add	254.56	
For Up To >10, Add	2,059.39	
For >10 To 25, Add	1,201.88	
For >25 To 50, Add	875.41	
For >50 To 100, Add	437.71	
For >500 To 1,000, Deduct	-167.20	
For >1,000 To 2,000, Deduct	-252.95	
For >2,000 To 5,000, Deduct	-413.32	
For >5,000, Deduct	-686.00	
33 01 30 72-0287 LF 37.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	3,515.75	
For Vinylster Resin, Add	2,329.29	
For Epoxy Resin, Add	274.52	
For Up To >10, Add	2,228.35	
For >10 To 25, Add	1,302.37	
For >25 To 50, Add	947.80	
For >50 To 100, Add	473.90	
For >500 To 1,000, Deduct	-180.49	
For >1,000 To 2,000, Deduct	-273.09	
For >2,000 To 5,000, Deduct	-446.35	
For >5,000, Deduct	-740.79	
33 01 30 72-0288 LF 37.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	3,771.38	
For Vinylster Resin, Add	2,498.65	
For Epoxy Resin, Add	294.48	
For Up To >10, Add	2,390.39	
For >10 To 25, Add	1,397.08	
For >25 To 50, Add	1,016.72	
For >50 To 100, Add	508.36	
For >500 To 1,000, Deduct	-193.62	
For >1,000 To 2,000, Deduct	-292.95	
For >2,000 To 5,000, Deduct	-478.81	
For >5,000, Deduct	-794.65	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0289	LF		37.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,026.88	
			For Vinlyester Resin, Add	2,668.00	
			For Epoxy Resin, Add	314.44	
			For Up To >10, Add	2,552.07	
			For >10 To 25, Add	1,491.48	
			For >25 To 50, Add	1,085.46	
			For >50 To 100, Add	542.73	
			For >500 To 1,000, Deduct	-206.73	
			For >1,000 To 2,000, Deduct	-312.79	
			For >2,000 To 5,000, Deduct	-511.23	
			For >5,000, Deduct	-848.47	
33 01 30 72-0290	LF		37.5mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,282.51	
			For Vinlyester Resin, Add	2,837.36	
			For Epoxy Resin, Add	334.40	
			For Up To >10, Add	2,714.11	
			For >10 To 25, Add	1,586.19	
			For >25 To 50, Add	1,154.38	
			For >50 To 100, Add	577.19	
			For >500 To 1,000, Deduct	-219.85	
			For >1,000 To 2,000, Deduct	-332.65	
			For >2,000 To 5,000, Deduct	-543.69	
			For >5,000, Deduct	-902.33	
33 01 30 72-0291	LF		37.5mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,538.12	
			For Vinlyester Resin, Add	3,006.71	
			For Epoxy Resin, Add	354.36	
			For Up To >10, Add	2,876.11	
			For >10 To 25, Add	1,680.88	
			For >25 To 50, Add	1,223.29	
			For >50 To 100, Add	611.65	
			For >500 To 1,000, Deduct	-232.98	
			For >1,000 To 2,000, Deduct	-352.50	
			For >2,000 To 5,000, Deduct	-576.14	
			For >5,000, Deduct	-956.19	
33 01 30 72-0292			39mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)		
33 01 30 72-0293	LF		39mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,521.75	
			For Vinlyester Resin, Add	1,011.70	
			For Epoxy Resin, Add	119.24	
			For Up To >10, Add	952.05	
			For >10 To 25, Add	552.50	
			For >25 To 50, Add	403.76	
			For >50 To 100, Add	201.88	
			For >500 To 1,000, Deduct	-78.00	
			For >1,000 To 2,000, Deduct	-117.95	
			For >2,000 To 5,000, Deduct	-192.55	
			For >5,000, Deduct	-319.64	
33 01 30 72-0294	LF		39mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,786.66	
			For Vinlyester Resin, Add	1,187.83	
			For Epoxy Resin, Add	139.99	
			For Up To >10, Add	1,117.73	
			For >10 To 25, Add	648.63	
			For >25 To 50, Add	474.02	
			For >50 To 100, Add	237.01	
			For >500 To 1,000, Deduct	-91.58	
			For >1,000 To 2,000, Deduct	-138.49	
			For >2,000 To 5,000, Deduct	-226.07	
			For >5,000, Deduct	-375.28	
33 01 30 72-0295	LF		39mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,051.55	
			For Vinlyester Resin, Add	1,363.96	
			For Epoxy Resin, Add	160.75	
			For Up To >10, Add	1,283.38	
			For >10 To 25, Add	744.73	
			For >25 To 50, Add	544.26	
			For >50 To 100, Add	272.13	
			For >500 To 1,000, Deduct	-105.15	
			For >1,000 To 2,000, Deduct	-159.02	
			For >2,000 To 5,000, Deduct	-259.58	
			For >5,000, Deduct	-430.92	
33 01 30 72-0296	LF		39mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,316.45	
			For Vinlyester Resin, Add	1,540.08	
			For Epoxy Resin, Add	181.51	
			For Up To >10, Add	1,449.05	
			For >10 To 25, Add	840.86	
			For >25 To 50, Add	614.52	
			For >50 To 100, Add	307.26	
			For >500 To 1,000, Deduct	-118.73	
			For >1,000 To 2,000, Deduct	-179.55	
			For >2,000 To 5,000, Deduct	-293.10	
			For >5,000, Deduct	-486.56	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0297 LF 39mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,581.49	
For Vinlyester Resin, Add	1,716.22	
For Epoxy Resin, Add	202.27	
For Up To >10, Add	1,615.12	
For >10 To 25, Add	937.31	
For >25 To 50, Add	684.97	
For >50 To 100, Add	342.49	
For >500 To 1,000, Deduct	-132.32	
For >1,000 To 2,000, Deduct	-200.10	
For >2,000 To 5,000, Deduct	-326.65	
For >5,000, Deduct	-542.25	
33 01 30 72-0298 LF 39mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,853.44	
For Vinlyester Resin, Add	1,892.35	
For Epoxy Resin, Add	223.03	
For Up To >10, Add	1,801.95	
For >10 To 25, Add	1,051.06	
For >25 To 50, Add	765.81	
For >50 To 100, Add	382.90	
For >500 To 1,000, Deduct	-146.42	
For >1,000 To 2,000, Deduct	-221.51	
For >2,000 To 5,000, Deduct	-361.92	
For >5,000, Deduct	-600.71	
33 01 30 72-0299 LF 39mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,119.02	
For Vinlyester Resin, Add	2,068.47	
For Epoxy Resin, Add	243.78	
For Up To >10, Add	1,969.66	
For >10 To 25, Add	1,148.89	
For >25 To 50, Add	837.08	
For >50 To 100, Add	418.54	
For >500 To 1,000, Deduct	-160.05	
For >1,000 To 2,000, Deduct	-242.13	
For >2,000 To 5,000, Deduct	-395.61	
For >5,000, Deduct	-656.62	
33 01 30 72-0300 LF 39mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,384.59	
For Vinlyester Resin, Add	2,244.60	
For Epoxy Resin, Add	264.54	
For Up To >10, Add	2,137.35	
For >10 To 25, Add	1,246.69	
For >25 To 50, Add	908.34	
For >50 To 100, Add	454.17	
For >500 To 1,000, Deduct	-173.68	
For >1,000 To 2,000, Deduct	-262.75	
For >2,000 To 5,000, Deduct	-429.29	
For >5,000, Deduct	-712.52	
33 01 30 72-0301 LF 39mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,650.31	
For Vinlyester Resin, Add	2,420.73	
For Epoxy Resin, Add	285.30	
For Up To >10, Add	2,305.46	
For >10 To 25, Add	1,344.85	
For >25 To 50, Add	979.82	
For >50 To 100, Add	489.91	
For >500 To 1,000, Deduct	-187.32	
For >1,000 To 2,000, Deduct	-283.38	
For >2,000 To 5,000, Deduct	-463.01	
For >5,000, Deduct	-768.49	
33 01 30 72-0302 LF 39mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,915.89	
For Vinlyester Resin, Add	2,596.86	
For Epoxy Resin, Add	306.06	
For Up To >10, Add	2,473.17	
For >10 To 25, Add	1,442.68	
For >25 To 50, Add	1,051.10	
For >50 To 100, Add	525.55	
For >500 To 1,000, Deduct	-200.95	
For >1,000 To 2,000, Deduct	-304.00	
For >2,000 To 5,000, Deduct	-496.70	
For >5,000, Deduct	-824.40	
33 01 30 72-0303 LF 39mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,181.46	
For Vinlyester Resin, Add	2,772.99	
For Epoxy Resin, Add	326.82	
For Up To >10, Add	2,640.86	
For >10 To 25, Add	1,540.48	
For >25 To 50, Add	1,122.36	
For >50 To 100, Add	561.18	
For >500 To 1,000, Deduct	-214.57	
For >1,000 To 2,000, Deduct	-324.61	
For >2,000 To 5,000, Deduct	-530.38	
For >5,000, Deduct	-880.30	



		Utilities	33	CS
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0304	LF		39mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,447.04	
			For Vinlyester Resin, Add	2,949.11	
			For Epoxy Resin, Add	347.57	
			For Up To >10, Add	2,808.57	
			For >10 To 25, Add	1,638.31	
			For >25 To 50, Add	1,193.63	
			For >50 To 100, Add	596.82	
			For >500 To 1,000, Deduct	-228.20	
			For >1,000 To 2,000, Deduct	-345.23	
			For >2,000 To 5,000, Deduct	-564.07	
			For >5,000, Deduct	-936.21	
33 01 30 72-0305	LF		39mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,712.62	
			For Vinlyester Resin, Add	3,125.25	
			For Epoxy Resin, Add	368.33	
			For Up To >10, Add	2,976.26	
			For >10 To 25, Add	1,736.11	
			For >25 To 50, Add	1,264.90	
			For >50 To 100, Add	632.45	
			For >500 To 1,000, Deduct	-241.83	
			For >1,000 To 2,000, Deduct	-365.85	
			For >2,000 To 5,000, Deduct	-597.75	
			For >5,000, Deduct	-992.12	
33 01 30 72-0306	LF		39mm Lining 114" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,978.20	
			For Vinlyester Resin, Add	3,301.38	
			For Epoxy Resin, Add	389.09	
			For Up To >10, Add	3,143.98	
			For >10 To 25, Add	1,833.94	
			For >25 To 50, Add	1,336.18	
			For >50 To 100, Add	668.09	
			For >500 To 1,000, Deduct	-255.46	
			For >1,000 To 2,000, Deduct	-386.46	
			For >2,000 To 5,000, Deduct	-631.44	
			For >5,000, Deduct	-1,048.03	
33 01 30 72-0307	LF		39mm Lining 120" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	5,243.77	
			For Vinlyester Resin, Add	3,477.50	
			For Epoxy Resin, Add	409.85	
			For Up To >10, Add	3,311.66	
			For >10 To 25, Add	1,931.74	
			For >25 To 50, Add	1,407.44	
			For >50 To 100, Add	703.72	
			For >500 To 1,000, Deduct	-269.09	
			For >1,000 To 2,000, Deduct	-407.08	
			For >2,000 To 5,000, Deduct	-665.12	
			For >5,000, Deduct	-1,103.94	
33 01 30 72-0308			40.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015).....	1,850.97	
33 01 30 72-0309	LF		40.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,850.97	
			For Vinlyester Resin, Add	1,231.71	
			For Epoxy Resin, Add	145.17	
			For Up To >10, Add	1,153.94	
			For >10 To 25, Add	668.35	
			For >25 To 50, Add	488.99	
			For >50 To 100, Add	244.49	
			For >500 To 1,000, Deduct	-94.83	
			For >1,000 To 2,000, Deduct	-143.39	
			For >2,000 To 5,000, Deduct	-234.00	
			For >5,000, Deduct	-388.47	
33 01 30 72-0310	LF		40.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,125.82	
			For Vinlyester Resin, Add	1,414.62	
			For Epoxy Resin, Add	166.72	
			For Up To >10, Add	1,325.26	
			For >10 To 25, Add	767.57	
			For >25 To 50, Add	561.59	
			For >50 To 100, Add	280.79	
			For >500 To 1,000, Deduct	-108.91	
			For >1,000 To 2,000, Deduct	-164.68	
			For >2,000 To 5,000, Deduct	-268.74	
			For >5,000, Deduct	-446.15	
33 01 30 72-0311	LF		40.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,400.67	
			For Vinlyester Resin, Add	1,597.52	
			For Epoxy Resin, Add	188.28	
			For Up To >10, Add	1,496.59	
			For >10 To 25, Add	866.79	
			For >25 To 50, Add	634.18	
			For >50 To 100, Add	317.09	
			For >500 To 1,000, Deduct	-123.00	
			For >1,000 To 2,000, Deduct	-185.98	
			For >2,000 To 5,000, Deduct	-303.49	
			For >5,000, Deduct	-503.83	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0312 LF 40.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,675.52	
For Vinylster Resin, Add	1,780.42	
For Epoxy Resin, Add	209.84	
For Up To >10, Add	1,667.91	
For >10 To 25, Add	966.02	
For >25 To 50, Add	706.78	
For >50 To 100, Add	353.39	
For >500 To 1,000, Deduct	-137.08	
For >1,000 To 2,000, Deduct	-207.27	
For >2,000 To 5,000, Deduct	-338.23	
For >5,000, Deduct	-561.52	
33 01 30 72-0313 LF 40.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	2,957.70	
For Vinylster Resin, Add	1,963.33	
For Epoxy Resin, Add	231.39	
For Up To >10, Add	1,861.20	
For >10 To 25, Add	1,083.54	
For >25 To 50, Add	790.36	
For >50 To 100, Add	395.18	
For >500 To 1,000, Deduct	-151.71	
For >1,000 To 2,000, Deduct	-229.47	
For >2,000 To 5,000, Deduct	-374.81	
For >5,000, Deduct	-622.13	
33 01 30 72-0314 LF 40.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	3,233.21	
For Vinylster Resin, Add	2,146.23	
For Epoxy Resin, Add	252.95	
For Up To >10, Add	2,034.53	
For >10 To 25, Add	1,184.44	
For >25 To 50, Add	863.96	
For >50 To 100, Add	431.98	
For >500 To 1,000, Deduct	-165.84	
For >1,000 To 2,000, Deduct	-250.85	
For >2,000 To 5,000, Deduct	-409.72	
For >5,000, Deduct	-680.08	
33 01 30 72-0315 LF 40.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	3,508.74	
For Vinylster Resin, Add	2,329.13	
For Epoxy Resin, Add	274.50	
For Up To >10, Add	2,207.90	
For >10 To 25, Add	1,285.36	
For >25 To 50, Add	937.58	
For >50 To 100, Add	468.79	
For >500 To 1,000, Deduct	-179.97	
For >1,000 To 2,000, Deduct	-272.23	
For >2,000 To 5,000, Deduct	-444.63	
For >5,000, Deduct	-738.03	
33 01 30 72-0316 LF 40.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	3,784.26	
For Vinylster Resin, Add	2,512.03	
For Epoxy Resin, Add	296.06	
For Up To >10, Add	2,381.23	
For >10 To 25, Add	1,386.26	
For >25 To 50, Add	1,011.18	
For >50 To 100, Add	505.59	
For >500 To 1,000, Deduct	-194.10	
For >1,000 To 2,000, Deduct	-293.60	
For >2,000 To 5,000, Deduct	-479.54	
For >5,000, Deduct	-795.98	
33 01 30 72-0317 LF 40.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	4,059.79	
For Vinylster Resin, Add	2,694.94	
For Epoxy Resin, Add	317.62	
For Up To >10, Add	2,554.60	
For >10 To 25, Add	1,487.18	
For >25 To 50, Add	1,084.80	
For >50 To 100, Add	542.40	
For >500 To 1,000, Deduct	-208.24	
For >1,000 To 2,000, Deduct	-314.98	
For >2,000 To 5,000, Deduct	-514.46	
For >5,000, Deduct	-853.93	
33 01 30 72-0318 LF 40.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	4,335.32	
For Vinylster Resin, Add	2,877.84	
For Epoxy Resin, Add	339.17	
For Up To >10, Add	2,727.96	
For >10 To 25, Add	1,588.10	
For >25 To 50, Add	1,158.42	
For >50 To 100, Add	579.21	
For >500 To 1,000, Deduct	-222.37	
For >1,000 To 2,000, Deduct	-336.36	
For >2,000 To 5,000, Deduct	-549.37	
For >5,000, Deduct	-911.89	



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		Operation and Maintenance of Utilities	33 01	
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0319	LF		40.5mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,610.84	
			For Vinylester Resin, Add	3,060.74	
			For Epoxy Resin, Add	360.73	
			For Up To >10, Add	2,901.30	
			For >10 To 25, Add	1,689.00	
			For >25 To 50, Add	1,232.02	
			For >50 To 100, Add	616.01	
			For >500 To 1,000, Deduct	-236.50	
			For >1,000 To 2,000, Deduct	-357.73	
			For >2,000 To 5,000, Deduct	-584.29	
			For >5,000, Deduct	-969.84	
33 01 30 72-0320	LF		40.5mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,886.37	
			For Vinylester Resin, Add	3,243.65	
			For Epoxy Resin, Add	382.29	
			For Up To >10, Add	3,074.66	
			For >10 To 25, Add	1,789.92	
			For >25 To 50, Add	1,305.64	
			For >50 To 100, Add	652.82	
			For >500 To 1,000, Deduct	-250.63	
			For >1,000 To 2,000, Deduct	-379.11	
			For >2,000 To 5,000, Deduct	-619.20	
			For >5,000, Deduct	-1,027.79	
33 01 30 72-0321	LF		40.5mm Lining 114" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	5,161.89	
			For Vinylester Resin, Add	3,426.55	
			For Epoxy Resin, Add	403.84	
			For Up To >10, Add	3,248.00	
			For >10 To 25, Add	1,890.82	
			For >25 To 50, Add	1,379.24	
			For >50 To 100, Add	689.62	
			For >500 To 1,000, Deduct	-264.77	
			For >1,000 To 2,000, Deduct	-400.48	
			For >2,000 To 5,000, Deduct	-654.11	
			For >5,000, Deduct	-1,085.74	
33 01 30 72-0322	LF		40.5mm Lining 120" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	5,437.42	
			For Vinylester Resin, Add	3,609.45	
			For Epoxy Resin, Add	425.40	
			For Up To >10, Add	3,421.36	
			For >10 To 25, Add	1,991.74	
			For >25 To 50, Add	1,452.86	
			For >50 To 100, Add	726.43	
			For >500 To 1,000, Deduct	-278.90	
			For >1,000 To 2,000, Deduct	-421.86	
			For >2,000 To 5,000, Deduct	-689.03	
			For >5,000, Deduct	-1,143.70	
33 01 30 72-0323			42mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)	2,199.76	
33 01 30 72-0324	LF		42mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,199.76	
			For Vinylester Resin, Add	1,465.14	
			For Epoxy Resin, Add	172.68	
			For Up To >10, Add	1,366.63	
			For >10 To 25, Add	790.02	
			For >25 To 50, Add	578.66	
			For >50 To 100, Add	289.33	
			For >500 To 1,000, Deduct	-112.66	
			For >1,000 To 2,000, Deduct	-170.32	
			For >2,000 To 5,000, Deduct	-277.84	
			For >5,000, Deduct	-461.29	
33 01 30 72-0325	LF		42mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,484.57	
			For Vinylester Resin, Add	1,654.82	
			For Epoxy Resin, Add	195.03	
			For Up To >10, Add	1,543.64	
			For >10 To 25, Add	892.36	
			For >25 To 50, Add	653.62	
			For >50 To 100, Add	326.81	
			For >500 To 1,000, Deduct	-127.24	
			For >1,000 To 2,000, Deduct	-192.37	
			For >2,000 To 5,000, Deduct	-313.82	
			For >5,000, Deduct	-521.02	
33 01 30 72-0326	LF		42mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,769.36	
			For Vinylester Resin, Add	1,844.50	
			For Epoxy Resin, Add	217.39	
			For Up To >10, Add	1,720.58	
			For >10 To 25, Add	994.65	
			For >25 To 50, Add	728.54	
			For >50 To 100, Add	364.27	
			For >500 To 1,000, Deduct	-141.83	
			For >1,000 To 2,000, Deduct	-214.42	
			For >2,000 To 5,000, Deduct	-349.79	
			For >5,000, Deduct	-580.74	

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0327 LF 42mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,061.61	
For Vinlyester Resin, Add	2,034.17	
For Epoxy Resin, Add	239.74	
For Up To >10, Add	1,919.93	
For >10 To 25, Add	1,115.62	
For >25 To 50, Add	814.67	
For >50 To 100, Add	407.33	
For >500 To 1,000, Deduct	-156.97	
For >1,000 To 2,000, Deduct	-237.40	
For >2,000 To 5,000, Deduct	-387.63	
For >5,000, Deduct	-643.45	
33 01 30 72-0328 LF 42mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,347.10	
For Vinlyester Resin, Add	2,223.86	
For Epoxy Resin, Add	262.10	
For Up To >10, Add	2,098.95	
For >10 To 25, Add	1,219.64	
For >25 To 50, Add	890.63	
For >50 To 100, Add	445.31	
For >500 To 1,000, Deduct	-171.61	
For >1,000 To 2,000, Deduct	-259.54	
For >2,000 To 5,000, Deduct	-423.77	
For >5,000, Deduct	-703.45	
33 01 30 72-0329 LF 42mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,632.56	
For Vinlyester Resin, Add	2,413.53	
For Epoxy Resin, Add	284.45	
For Up To >10, Add	2,277.93	
For >10 To 25, Add	1,323.63	
For >25 To 50, Add	966.57	
For >50 To 100, Add	483.29	
For >500 To 1,000, Deduct	-186.24	
For >1,000 To 2,000, Deduct	-281.68	
For >2,000 To 5,000, Deduct	-459.91	
For >5,000, Deduct	-763.44	
33 01 30 72-0330 LF 42mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,918.04	
For Vinlyester Resin, Add	2,603.21	
For Epoxy Resin, Add	306.81	
For Up To >10, Add	2,456.95	
For >10 To 25, Add	1,427.64	
For >25 To 50, Add	1,042.53	
For >50 To 100, Add	521.26	
For >500 To 1,000, Deduct	-200.88	
For >1,000 To 2,000, Deduct	-303.81	
For >2,000 To 5,000, Deduct	-496.06	
For >5,000, Deduct	-823.44	
33 01 30 72-0331 LF 42mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,203.51	
For Vinlyester Resin, Add	2,792.88	
For Epoxy Resin, Add	329.16	
For Up To >10, Add	2,635.96	
For >10 To 25, Add	1,531.66	
For >25 To 50, Add	1,118.49	
For >50 To 100, Add	559.24	
For >500 To 1,000, Deduct	-215.52	
For >1,000 To 2,000, Deduct	-325.95	
For >2,000 To 5,000, Deduct	-532.20	
For >5,000, Deduct	-883.44	
33 01 30 72-0332 LF 42mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,488.99	
For Vinlyester Resin, Add	2,982.56	
For Epoxy Resin, Add	351.52	
For Up To >10, Add	2,814.97	
For >10 To 25, Add	1,635.68	
For >25 To 50, Add	1,194.45	
For >50 To 100, Add	597.22	
For >500 To 1,000, Deduct	-230.15	
For >1,000 To 2,000, Deduct	-348.08	
For >2,000 To 5,000, Deduct	-568.34	
For >5,000, Deduct	-943.44	
33 01 30 72-0333 LF 42mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,774.46	
For Vinlyester Resin, Add	3,172.24	
For Epoxy Resin, Add	373.87	
For Up To >10, Add	2,993.96	
For >10 To 25, Add	1,739.67	
For >25 To 50, Add	1,270.39	
For >50 To 100, Add	635.19	
For >500 To 1,000, Deduct	-244.79	
For >1,000 To 2,000, Deduct	-370.22	
For >2,000 To 5,000, Deduct	-604.48	
For >5,000, Deduct	-1,003.43	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0334 LF 42mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	5,059.94	
For Vinylester Resin, Add	3,361.92	
For Epoxy Resin, Add	396.23	
For Up To >10, Add	3,172.97	
For >10 To 25, Add	1,843.69	
For >25 To 50, Add	1,346.35	
For >50 To 100, Add	673.17	
For >500 To 1,000, Deduct	-259.43	
For >1,000 To 2,000, Deduct	-392.36	
For >2,000 To 5,000, Deduct	-640.63	
For >5,000, Deduct	-1,063.43	
33 01 30 72-0335 LF 42mm Lining 114" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	5,345.41	
For Vinylester Resin, Add	3,551.59	
For Epoxy Resin, Add	418.58	
For Up To >10, Add	3,351.98	
For >10 To 25, Add	1,947.70	
For >25 To 50, Add	1,422.31	
For >50 To 100, Add	711.15	
For >500 To 1,000, Deduct	-274.06	
For >1,000 To 2,000, Deduct	-414.49	
For >2,000 To 5,000, Deduct	-676.77	
For >5,000, Deduct	-1,123.42	
33 01 30 72-0336 LF 42mm Lining 120" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	5,630.88	
For Vinylester Resin, Add	3,741.27	
For Epoxy Resin, Add	440.94	
For Up To >10, Add	3,530.97	
For >10 To 25, Add	2,051.69	
For >25 To 50, Add	1,498.25	
For >50 To 100, Add	749.12	
For >500 To 1,000, Deduct	-288.70	
For >1,000 To 2,000, Deduct	-436.63	
For >2,000 To 5,000, Deduct	-712.91	
For >5,000, Deduct	-1,183.42	
33 01 30 74 Cured-in-Place Lateral Lining (33 01 30)		
33 01 30 74-0001 Laterals; Cutting, Grouting And Reinstatement (33 01 30 74)		
33 01 30 74-0002 Lateral Reinstatement/Reconnection (33 01 30 74-0001)		
33 01 30 74-0003 EA Cut Liner For Laterals, Up To 4" (Robotic).....	548.82	
33 01 30 74-0004 EA Cut Liner For Laterals, 6" (Robotic).....	593.31	
33 01 30 74-0005 EA Cut Liner For Laterals, 8" (Robotic).....	630.39	
33 01 30 74-0006 EA Cut Liner For Laterals, 10" (Robotic).....	667.48	
33 01 30 74-0007 EA Cut Liner For Laterals, 12" (Robotic).....	704.56	
33 01 30 74-0008 Grout Lateral Service (33 01 30 74-0001)		
33 01 30 74-0009 Grout Lateral Service - Bladder (33 01 30 74-0008)		
33 01 30 74-0010 EA Grout Up To 4" Lateral Service - Bladder.....	619.89	
33 01 30 74-0011 EA Grout 6" Lateral Service - Bladder.....	710.40	
33 01 30 74-0012 EA Grout 8" Lateral Service - Bladder.....	800.91	
33 01 30 74-0013 Grout Lateral Service - Robotic Trowel Application (33 01 30 74-0008)		
33 01 30 74-0014 EA Grout 3" To 6" Lateral Service - Robotic Trowel Application.....	673.83	
33 01 30 74-0015 EA Grout 8" To 12" Lateral Service - Robotic Trowel Application.....	727.77	
33 01 30 74-0016 Lateral T-Liner (33 01 30 74-0001)		
Note: As manufactured by LMK.		
33 01 30 74-0017 EA Up To 4" Lateral T-Liner.....	775.69	
33 01 30 74-0018 EA 6" Lateral T-Liner.....	869.17	
33 01 30 74-0019 EA 8" Lateral T-Liner.....	1,010.02	
33 01 30 74-0020 Lining Lateral Pipe (33 01 30 74-0001)		
33 01 30 74-0021 Lining Lateral Pipe (33 01 30 74-0020)		
33 01 30 74-0022 LF 6mm Lining 3" Lateral Pipe With Cured In-Place Pipe (CIPP).....	39.19	
For 7.5mm, Add	4.23	
For 9 mm, Add	8.37	
33 01 30 74-0023 LF 6mm Lining 4" Lateral Pipe With Cured In-Place Pipe (CIPP).....	46.65	
For 7.5mm, Add	5.76	
For 9 mm, Add	11.39	
33 01 30 74-0024 LF 6mm Lining 6" Lateral Pipe With Cured In-Place Pipe (CIPP).....	60.58	
For 7.5mm, Add	8.82	
For 9 mm, Add	17.45	
33 01 30 79 Fold-and-Form Pipe Lining (33 01 30)		

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
33 01 30 79-0001	Form and Fold Relining Underground Pipelines (33 01 30 79) Note: Excludes CCTV inspection and sewer cleaning. See CSI section 33 01 30 11-0000 for CCTV inspection, 33 01 30 41-0002 for sewer cleaning.			
33 01 30 79-0002	Fold-And-Form Relining Underground Pipelines Set-Up And Reinsertion (33 01 30 79-0001)			
33 01 30 79-0003	EA Initial Set Up And Final Equipment Removal For Fold-And-Form Relining Underground Pipelines.....	5,423.32		
33 01 30 79-0004	EA Move And Reset Up At Different Access/Location For Fold-And-Form Relining Underground Pipelines	2,169.33		
33 01 30 79-0005	Form And Fold Polyethylene (PE) Pipeliner (33 01 30 79-0001)			
33 01 30 79-0006	LF 4" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	45.58		
	For DR 26 Pipe Liner, Add	8.49		
	For Up To 75, Add	24.22		
	For >75 To 150, Add	12.11		
	For >500 To 1,000, Deduct	-0.87		
	For >1,000 To 2,000, Deduct	-1.74		
	For >2,000, Deduct	-3.49		
33 01 30 79-0007	LF 6" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	58.65		
	For DR 26 Pipe Liner, Add	11.53		
	For DR 35 Pipe Liner, Deduct	-5.77		
	For Up To 75, Add	28.01		
	For >75 To 150, Add	14.00		
	For >500 To 1,000, Deduct	-0.94		
	For >1,000 To 2,000, Deduct	-1.88		
	For >2,000, Deduct	-3.76		
33 01 30 79-0008	LF 8" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	60.55		
	For DR 26 Pipe Liner, Add	11.75		
	For DR 35 Pipe Liner, Deduct	-5.87		
	For Up To 75, Add	29.74		
	For >75 To 150, Add	14.87		
	For >500 To 1,000, Deduct	-1.02		
	For >1,000 To 2,000, Deduct	-2.03		
	For >2,000, Deduct	-4.07		
33 01 30 79-0009	LF 10" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	85.27		
	For DR 26 Pipe Liner, Add	17.62		
	For DR 35 Pipe Liner, Deduct	-8.81		
	For DR 41 Pipe Liner, Deduct	-17.62		
	For Up To 75, Add	36.28		
	For >75 To 150, Add	18.14		
	For >500 To 1,000, Deduct	-1.11		
	For >1,000 To 2,000, Deduct	-2.22		
	For >2,000, Deduct	-4.44		
33 01 30 79-0010	LF 12" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	119.43		
	For DR 26 Pipe Liner, Add	25.79		
	For DR 35 Pipe Liner, Deduct	-12.90		
	For DR 41 Pipe Liner, Deduct	-25.79		
	For Up To 75, Add	45.04		
	For >75 To 150, Add	22.52		
	For >500 To 1,000, Deduct	-1.22		
	For >1,000 To 2,000, Deduct	-2.44		
	For >2,000, Deduct	-4.88		
33 01 30 79-0011	LF 15" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5	163.73		
	For DR 35 Pipe Liner, Deduct	-18.16		
	For DR 41 Pipe Liner, Deduct	-36.31		
	For Up To 75, Add	56.78		
	For >75 To 150, Add	28.39		
	For >500 To 1,000, Deduct	-1.39		
	For >1,000 To 2,000, Deduct	-2.77		
	For >2,000, Deduct	-5.55		
33 01 30 79-0012	LF 18" Diameter Form and Fold Polyethylene Pipeliner, DR 35	231.46		
	For DR 41 Pipe Liner, Deduct	-21.06		
	For DR 50 Pipe Liner, Deduct	-42.12		
	For Up To 75, Add	73.41		
	For >75 To 150, Add	36.71		
	For >500 To 1,000, Deduct	-1.56		
	For >1,000 To 2,000, Deduct	-3.13		
	For >2,000, Deduct	-6.26		
33 01 30 79-0013	LF 21" Diameter Form and Fold Polyethylene Pipeliner, DR 47	261.81		
	For DR 50 Pipe Liner, Deduct	-35.88		
	For DR 55 Pipe Liner, Deduct	-59.81		
	For Up To 75, Add	81.73		
	For >75 To 150, Add	40.86		
	For >500 To 1,000, Deduct	-1.69		
	For >1,000 To 2,000, Deduct	-3.39		
	For >2,000, Deduct	-6.78		
33 01 30 79-0014	LF 24" Diameter Form and Fold Polyethylene Pipeliner, DR 55	319.40		
	For DR 60 Pipe Liner, Deduct	-44.21		
	For Up To 75, Add	95.93		
	For >75 To 150, Add	47.96		
	For >500 To 1,000, Deduct	-1.85		
	For >1,000 To 2,000, Deduct	-3.70		
	For >2,000, Deduct	-7.40		
33 01 30 79-0015	Form And Fold Polyvinyl Chloride (PVC) Pipeliner (33 01 30 79-0001)			



		Utilities	33	
		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0016	LF		4" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	48.78	
			For Up To 75, Add	24.86	
			For >75 To 150, Add	12.43	
			For >500 To 1,000, Deduct	-0.87	
			For >1,000 To 2,000, Deduct	-1.74	
			For >2,000, Deduct	-3.49	
			For DR 26 Pipe Liner, Add	9.29	
33 01 30 79-0017	LF		6" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	58.65	
			For Up To 75, Add	28.01	
			For >75 To 150, Add	14.00	
			For >500 To 1,000, Deduct	-0.94	
			For >1,000 To 2,000, Deduct	-1.88	
			For >2,000, Deduct	-3.76	
			For DR 26 Pipe Liner, Add	11.53	
			For DR 35 Pipe Liner, Deduct	-5.77	
33 01 30 79-0018	LF		8" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	64.82	
			For Up To 75, Add	30.59	
			For >75 To 150, Add	15.30	
			For >500 To 1,000, Deduct	-1.02	
			For >1,000 To 2,000, Deduct	-2.03	
			For >2,000, Deduct	-4.07	
			For DR 26 Pipe Liner, Add	12.82	
			For DR 35 Pipe Liner, Deduct	-6.41	
33 01 30 79-0019	LF		10" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	91.68	
			For Up To 75, Add	37.56	
			For >75 To 150, Add	18.78	
			For >500 To 1,000, Deduct	-1.11	
			For >1,000 To 2,000, Deduct	-2.22	
			For >2,000, Deduct	-4.44	
			For DR 26 Pipe Liner, Add	19.22	
			For DR 35 Pipe Liner, Deduct	-9.61	
			For DR 41 Pipe Liner, Deduct	-19.22	
33 01 30 79-0020	LF		12" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	129.04	
			For Up To 75, Add	46.96	
			For >75 To 150, Add	23.48	
			For >500 To 1,000, Deduct	-1.22	
			For >1,000 To 2,000, Deduct	-2.44	
			For >2,000, Deduct	-4.88	
			For DR 26 Pipe Liner, Add	28.19	
			For DR 35 Pipe Liner, Deduct	-14.10	
			For DR 41 Pipe Liner, Deduct	-28.19	
33 01 30 79-0021	LF		15" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	177.40	
			For Up To 75, Add	59.52	
			For >75 To 150, Add	29.76	
			For >500 To 1,000, Deduct	-1.39	
			For >1,000 To 2,000, Deduct	-2.77	
			For >2,000, Deduct	-5.55	
			For DR 35 Pipe Liner, Deduct	-19.86	
			For DR 41 Pipe Liner, Deduct	-39.73	
33 01 30 79-0022	LF		18" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 35.....	251.53	
			For Up To 75, Add	77.42	
			For >75 To 150, Add	38.71	
			For >500 To 1,000, Deduct	-1.56	
			For >1,000 To 2,000, Deduct	-3.13	
			For >2,000, Deduct	-6.26	
			For DR 41 Pipe Liner, Deduct	-23.07	
			For DR 50 Pipe Liner, Deduct	-46.13	
33 01 30 79-0023	LF		21" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 47.....	284.02	
			For Up To 75, Add	86.17	
			For >75 To 150, Add	43.09	
			For >500 To 1,000, Deduct	-1.69	
			For >1,000 To 2,000, Deduct	-3.39	
			For >2,000, Deduct	-6.78	
			For DR 50 Pipe Liner, Deduct	-39.21	
			For DR 55 Pipe Liner, Deduct	-65.36	
33 01 30 79-0024	LF		24" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 55.....	347.59	
			For Up To 75, Add	101.56	
			For >75 To 150, Add	50.78	
			For >500 To 1,000, Deduct	-1.85	
			For >1,000 To 2,000, Deduct	-3.70	
			For >2,000, Deduct	-7.40	
			For DR 60 Pipe Liner, Deduct	-48.44	

33 01 30 81 Manhole Rehabilitation (33 01 30)

33 01 30 81-0001 Restoration And Rehabilitation Of Manholes (33 01 30 81)
Note: Work is in confined spaces.

33 01 30 81-0002 Inspection And Ventilation System Set-up (33 01 30 81-0001)

33 01 30 81-0003	EA	Inspect Manhole	174.54
33 01 30 81-0004	EA	36" to 60" Diameter, Up To 2600', Installation And Maintenance Of Ventilation System	14,277.00
Note: For internal inspection and repair of water mains.			
33 01 30 81-0005	EA	>60" to 108" Diameter, Up To 2600', Installation And Maintenance Of Ventilation System	20,241.42
Note: For internal inspection and repair of water mains			

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 81-0006 Manhole Seals (33 01 30 81-0001)		
33 01 30 81-0007 Internal Manhole Chimney Seals (33 01 30 81-0006)		
Note: Cretex.		
33 01 30 81-0008 EA 20" Internal Manhole Chimney Seal.....	573.34	
33 01 30 81-0009 EA 22" Internal Manhole Chimney Seal.....	604.32	
33 01 30 81-0010 EA 24" Internal Manhole Chimney Seal.....	619.82	
33 01 30 81-0011 EA 26" Internal Manhole Chimney Seal.....	712.79	
33 01 30 81-0012 EA 28" Internal Manhole Chimney Seal.....	805.76	
33 01 30 81-0013 EA 30" Internal Manhole Chimney Seal.....	898.74	
33 01 30 81-0014 EA 36" Internal Manhole Chimney Seal.....	1,084.68	
33 01 30 81-0015 External Manhole Encapsulation (33 01 30 81-0006)		
Note: Wrapidseal.		
33 01 30 81-0016 EA 24" External Manhole Encapsulation	836.76	
33 01 30 81-0017 EA 30" External Manhole Encapsulation	883.23	
33 01 30 81-0018 EA 36" External Manhole Encapsulation	945.22	
33 01 30 81-0019 EA 42" External Manhole Encapsulation	1,022.70	
33 01 30 81-0020 EA 48" External Manhole Encapsulation	1,131.17	
33 01 30 81-0021 EA 54" External Manhole Encapsulation	1,255.13	
33 01 30 81-0022 EA 60" External Manhole Encapsulation	1,410.07	
33 01 30 81-0023 Manhole Patching (33 01 30 81-0001)		
Note: Includes removing loose materials and cleaning.		
33 01 30 81-0024 SF Up To 1/4" Thick, Cementitious Grout, Manhole Patching.....	16.78	
33 01 30 81-0025 SF Up To 1/4" Thick, Epoxy Grout, Manhole Patching.....	40.01	
33 01 30 81-0026 Manhole Joint Restoration (33 01 30 81-0001)		
Note: Includes drilling holes at joints, fill joints with grout.		
33 01 30 81-0027 EA 3' Diameter Joint Restoration, Grout Fill Per Each Manhole.....	2,363.17	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	237.73	
33 01 30 81-0028 EA 3-1/2' Diameter Joint Restoration, Grout Fill Per Each Manhole.....	2,758.67	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	264.86	
33 01 30 81-0029 EA 4' Diameter Joint Restoration, Grout Fill Per Each Manhole.....	3,150.89	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	291.98	
33 01 30 81-0030 EA 5' Diameter Joint Restoration, Grout Fill Per Each Manhole.....	3,736.84	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	305.54	
33 01 30 81-0031 EA 6' Diameter Joint Restoration, Grout Fill Per Each Manhole.....	4,321.15	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	319.10	
33 01 30 81-0032 Step Installation In Existing Manholes (33 01 30 81-0001)		
Note: Including drilling in existing concrete manhole, step and grout. Demolition cost includes removal of old step and patching holes.		
33 01 30 81-0033 EA Drill And Grout 8" x 9" Cast Iron Manhole Steps.....	166.15	21.94
33 01 30 81-0034 EA Drill And Grout Galvanized Steel Manhole Step	119.10	21.94
33 01 30 81-0035 EA Bolt On Galvanized Steel Manhole Step.....	132.63	21.94
33 01 30 81-0036 EA Drill And Grout Aluminum Manhole Step.....	146.34	21.94
33 01 30 81-0037 EA Drill And Insert Polypropylene Manhole Step.....	68.17	17.55
33 01 30 81-0038 Manhole Penetration Sealing (33 01 30 81-0001)		
Note: At new pipe connection to manhole.		
33 01 30 81-0039 EA 6" To 12" Opening, Seal New Pipe Connection To Existing Manhole.....	415.54	
33 01 30 81-0040 EA >12" To 22" Opening, Seal New Pipe Connection To Existing Manhole.....	645.03	
33 01 30 81-0041 EA >22" To 36" Opening, Seal New Pipe Connection To Existing Manhole.....	888.99	
33 01 30 81-0042 Invert Restoration (33 01 30 81-0001)		
Note: Includes removal of existing defective material and installation of new material.		
33 01 30 81-0043 Concrete Invert Restoration (33 01 30 81-0042)		
33 01 30 81-0044 EA 2' Diameter, Concrete Invert Restoration.....	377.37	
33 01 30 81-0045 EA 3' Diameter, Concrete Invert Restoration.....	421.01	
33 01 30 81-0046 EA 4' Diameter, Concrete Invert Restoration.....	464.64	
33 01 30 81-0047 EA 5' Diameter, Concrete Invert Restoration.....	508.28	
33 01 30 81-0048 EA 6' Diameter, Concrete Invert Restoration.....	639.18	
33 01 30 81-0049 SF Square Or Rectangular, Concrete Invert Restoration	36.95	
33 01 30 81-0050 Brick Invert Restoration (33 01 30 81-0042)		
33 01 30 81-0051 EA 2' Diameter, Brick Invert Restoration	592.18	
33 01 30 81-0052 EA 3' Diameter, Brick Invert Restoration	635.82	
33 01 30 81-0053 EA 4' Diameter, Brick Invert Restoration	679.45	



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		Operation and Maintenance of Utilities	33 01	
		Operation and Maintenance of Sewer Utilities	33 01 30	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 01 30 81-0054	EA		5' Diameter, Brick Invert Restoration	723.09	
33 01 30 81-0055	EA		6' Diameter, Brick Invert Restoration	766.72	
33 01 30 81-0056	SF		Square Or Rectangular, Brick Invert Restoration.....	50.86	

33 01 30 81-0057 Repair In-Kind Of Drainage Structures (33 01 30 81)

Note: For brick, concrete or concrete block catch basins, inlets, manholes, and other drainage structures. Includes replacing bricks or concrete blocks, concrete repair, sealing and repairing joints, excavation, backfilling, pavement removal, restoration of pavement and all tasks to perform interior and/or exterior repair in-kind. Sizes are inside dimensions. For other sizes, use closest size.

33 01 30 81-0058	VLF		2' Diameter, Repair In-Kind Drainage Structure.....	797.30	
33 01 30 81-0059	VLF		3' Diameter, Repair In-Kind Drainage Structure.....	1,195.96	
33 01 30 81-0060	VLF		4' Diameter, Repair In-Kind Drainage Structure.....	1,594.72	
33 01 30 81-0061	VLF		5' Diameter, Repair In-Kind Drainage Structure.....	1,993.26	
33 01 30 81-0062	VLF		6' Diameter, Repair In-Kind Drainage Structure.....	2,391.92	
33 01 30 81-0063	VLF		2' x 2', Repair In-Kind Drainage Structure.....	1,015.68	
33 01 30 81-0064	VLF		2' x 3', Repair In-Kind Drainage Structure.....	1,269.60	
33 01 30 81-0065	VLF		2' x 4', Repair In-Kind Drainage Structure.....	1,523.52	
33 01 30 81-0066	VLF		3' x 4', Repair In-Kind Drainage Structure.....	1,777.44	
33 01 30 81-0067	VLF		4' x 4', Repair In-Kind Drainage Structure.....	2,031.35	
33 01 30 81-0068	VLF		4' x 5', Repair In-Kind Drainage Structure.....	2,285.27	
33 01 30 81-0069	VLF		4' x 6', Repair In-Kind Drainage Structure.....	2,539.19	
33 01 30 81-0070	VLF		4' x 8', Repair In-Kind Drainage Structure.....	3,047.03	
33 01 30 81-0071	VLF		>32 GSF, Repair In-Kind Drainage Structure	3,554.87	

33 01 30 82 Epoxy Lining for Concrete Manholes (33 01 30)

33 01 30 82-0001 Epoxy Manhole Restoration, Interior (33 01 30 82)

33 01 30 82-0002	VLF		60 Mil Epoxy Restoration Of 3' Diameter Manhole Interior	364.22	
			For 80 Mil Material, Add	42.58	
			For 100 Mil Material, Add	85.16	
			For 125 Mil Material, Add	132.67	
			For 150 Mil Material, Add	180.17	
			For 200 Mil Material, Add	259.93	
			For 2 To 5 Manholes, Deduct	-25.84	
			For 6 To 10 Manholes, Deduct	-42.57	
			For >10 Manholes, Deduct	-85.15	
33 01 30 82-0003	VLF		60 Mil Epoxy Restoration Of 3-1/2' Diameter Manhole Interior.....	441.95	
			For 80 Mil Material, Add	50.97	
			For 100 Mil Material, Add	101.95	
			For 125 Mil Material, Add	158.67	
			For 150 Mil Material, Add	215.40	
			For 200 Mil Material, Add	310.20	
			For 2 To 5 Manholes, Deduct	-31.42	
			For 6 To 10 Manholes, Deduct	-51.79	
			For >10 Manholes, Deduct	-103.59	
33 01 30 82-0004	VLF		60 Mil Epoxy Restoration Of 4' Diameter Manhole Interior	485.63	
			For 80 Mil Material, Add	56.78	
			For 100 Mil Material, Add	113.55	
			For 125 Mil Material, Add	176.89	
			For 150 Mil Material, Add	240.24	
			For 200 Mil Material, Add	346.58	
			For 2 To 5 Manholes, Deduct	-34.45	
			For 6 To 10 Manholes, Deduct	-56.76	
			For >10 Manholes, Deduct	-113.53	
33 01 30 82-0005	VLF		60 Mil Epoxy Restoration Of 5' Diameter Manhole Interior	607.10	
			For 80 Mil Material, Add	70.99	
			For 100 Mil Material, Add	141.98	
			For 125 Mil Material, Add	221.19	
			For 150 Mil Material, Add	300.39	
			For 200 Mil Material, Add	433.37	
			For 2 To 5 Manholes, Deduct	-43.07	
			For 6 To 10 Manholes, Deduct	-70.96	
			For >10 Manholes, Deduct	-141.92	
33 01 30 82-0006	VLF		60 Mil Epoxy Restoration Of 6' Diameter Manhole Interior	728.50	
			For 80 Mil Material, Add	85.19	
			For 100 Mil Material, Add	170.37	
			For 125 Mil Material, Add	265.41	
			For 150 Mil Material, Add	360.45	
			For 200 Mil Material, Add	520.02	
			For 2 To 5 Manholes, Deduct	-51.68	
			For 6 To 10 Manholes, Deduct	-85.15	
			For >10 Manholes, Deduct	-170.30	

33 01 30 83 Lining for Concrete Manholes (33 01 30)

33 01 30 83-0001 Manhole Lining (33 01 30 83)

Note: Includes power washing and cleaning of manhole interiors.

33 01 30 83-0002 Cementitious Manhole Restoration, Interior (33 01 30 83-0001)

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 83-0003 VLF 1/2" Cementitious Restoration On 3' Diameter Manhole Interior.....	164.00	
For Each Additional 1/2" Thick Material, Add	44.53	
For 2 To 5 Manholes, Deduct	-11.42	
For 6 To 10 Manholes, Deduct	-18.74	
For >10 Manholes, Deduct	-37.48	
33 01 30 83-0004 VLF 1/2" Cementitious Restoration On 3-1/2' Diameter Manhole Interior	190.19	
For Each Additional 1/2" Thick Material, Add	51.84	
For 2 To 5 Manholes, Deduct	-13.24	
For 6 To 10 Manholes, Deduct	-21.72	
For >10 Manholes, Deduct	-43.45	
33 01 30 83-0005 VLF 1/2" Cementitious Restoration On 4' Diameter Manhole Interior.....	216.40	
For Each Additional 1/2" Thick Material, Add	59.14	
For 2 To 5 Manholes, Deduct	-15.06	
For 6 To 10 Manholes, Deduct	-24.71	
For >10 Manholes, Deduct	-49.41	
33 01 30 83-0006 VLF 1/2" Cementitious Restoration On 5' Diameter Manhole Interior.....	255.52	
For Each Additional 1/2" Thick Material, Add	72.66	
For 2 To 5 Manholes, Deduct	-17.69	
For 6 To 10 Manholes, Deduct	-29.00	
For >10 Manholes, Deduct	-57.99	
33 01 30 83-0007 VLF 1/2" Cementitious Restoration On 6' Diameter Manhole Interior.....	280.51	
For Each Additional 1/2" Thick Material, Add	84.30	
For 2 To 5 Manholes, Deduct	-19.28	
For 6 To 10 Manholes, Deduct	-31.55	
For >10 Manholes, Deduct	-63.10	
33 01 30 83-0008 Polyurethane Manhole Restoration, Interior (33 01 30 83-0001)		
33 01 30 83-0009 VLF 60 Mil Polyurethane Restoration Of 3' Diameter Manhole Interior	325.76	
For 80 Mil Material, Add	29.76	
For 100 Mil Material, Add	59.52	
For 125 Mil Material, Add	91.00	
For 150 Mil Material, Add	122.48	
For 200 Mil Material, Add	170.19	
For 2 To 5 Manholes, Deduct	-23.92	
For 6 To 10 Manholes, Deduct	-39.69	
For >10 Manholes, Deduct	-79.38	
33 01 30 83-0010 VLF 60 Mil Polyurethane Restoration Of 3-1/2' Diameter Manhole Interior	397.01	
For 80 Mil Material, Add	35.99	
For 100 Mil Material, Add	71.99	
For 125 Mil Material, Add	109.99	
For 150 Mil Material, Add	147.99	
For 200 Mil Material, Add	205.34	
For 2 To 5 Manholes, Deduct	-29.17	
For 6 To 10 Manholes, Deduct	-48.42	
For >10 Manholes, Deduct	-96.85	
33 01 30 83-0011 VLF 60 Mil Polyurethane Restoration Of 4' Diameter Manhole Interior	434.35	
For 80 Mil Material, Add	39.68	
For 100 Mil Material, Add	79.37	
For 125 Mil Material, Add	121.34	
For 150 Mil Material, Add	163.32	
For 200 Mil Material, Add	226.93	
For 2 To 5 Manholes, Deduct	-31.89	
For 6 To 10 Manholes, Deduct	-52.92	
For >10 Manholes, Deduct	-105.84	
33 01 30 83-0012 VLF 60 Mil Polyurethane Restoration Of 5' Diameter Manhole Interior	542.94	
For 80 Mil Material, Add	49.60	
For 100 Mil Material, Add	99.21	
For 125 Mil Material, Add	151.68	
For 150 Mil Material, Add	204.15	
For 200 Mil Material, Add	283.66	
For 2 To 5 Manholes, Deduct	-39.86	
For 6 To 10 Manholes, Deduct	-66.15	
For >10 Manholes, Deduct	-132.30	
33 01 30 83-0013 VLF 60 Mil Polyurethane Restoration Of 6' Diameter Manhole Interior	651.51	
For 80 Mil Material, Add	59.52	
For 100 Mil Material, Add	119.04	
For 125 Mil Material, Add	182.00	
For 150 Mil Material, Add	244.97	
For 200 Mil Material, Add	340.37	
For 2 To 5 Manholes, Deduct	-47.83	
For 6 To 10 Manholes, Deduct	-79.38	
For >10 Manholes, Deduct	-158.75	
33 01 30 83-0014 Multiplexx™ PVCP Cured-In-Place (CIP) Lining Manhole Restoration, Interior (33 01 30 83-0001)		
33 01 30 83-0015 VLF 3' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole	553.51	
For 2 To 5 Manholes, Deduct	-32.25	
For 6 To 10 Manholes, Deduct	-50.67	
For >10 Manholes, Deduct	-101.33	
33 01 30 83-0016 VLF 3-1/2' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole.....	677.83	
For 2 To 5 Manholes, Deduct	-39.48	
For 6 To 10 Manholes, Deduct	-62.02	
For >10 Manholes, Deduct	-124.05	



		Utilities	33	CS
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MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 83-0017	VLF 4' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole..... For 2 To 5 Manholes, Deduct For 6 To 10 Manholes, Deduct For >10 Manholes, Deduct	798.23 -46.01 -72.07 -144.14	
33 01 30 83-0018	VLF 5' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole..... For 2 To 5 Manholes, Deduct For 6 To 10 Manholes, Deduct For >10 Manholes, Deduct	1,001.02 -57.68 -90.33 -180.66	
33 01 30 83-0019	VLF 6' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole..... For 2 To 5 Manholes, Deduct For 6 To 10 Manholes, Deduct For >10 Manholes, Deduct	1,203.79 -69.34 -108.59 -217.18	
33 01 30 86 Manhole Rim Adjustment (33 01 30)			
33 01 30 86-0001	Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Risers (33 01 30 86)		
33 01 30 86-0002	Up To 6" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Risers (33 01 30 86-0001)		
33 01 30 86-0003	EA Up To 2" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	342.80	
33 01 30 86-0004	EA >2" To 3" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	384.78	
33 01 30 86-0005	EA >3" To 4" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	423.07	
33 01 30 86-0006	EA >4" To 5" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	466.39	
33 01 30 86-0007	EA >5" To 6" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	501.87	
33 01 30 86-0008	Up To 6" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser (33 01 30 86-0001)		
33 01 30 86-0009	EA Up To 2" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	400.61	
33 01 30 86-0010	EA >2 To 3" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser	436.34	
33 01 30 86-0011	EA >3" To 4" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	481.09	
33 01 30 86-0012	EA >4" To 5" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	524.42	
33 01 30 86-0013	EA >5" To 6" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	566.31	
33 01 30 86-0014	>6" To 12" Rise, >32-1/2" To 36" Diameter, Solid, Cast Iron, Manhole Cover Risers (33 01 30 86-0001)		
33 01 30 86-0015	EA >6" To 6-1/2" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	560.30	
33 01 30 86-0016	EA 7" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	608.94	
33 01 30 86-0017	EA 7-1/2" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	658.41	
33 01 30 86-0018	EA 8" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	698.19	
33 01 30 86-0019	EA 9" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	758.18	
33 01 30 86-0020	EA 10" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	812.97	
33 01 30 86-0021	EA 11" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	866.76	
33 01 30 86-0022	EA 12" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser	921.79	
33 01 30 86-0023	>12" Rise, Solid Manhole Risers (33 01 30 86)		
33 01 30 86-0024	Precast Concrete Manhole Riser (33 01 30 86-0023)		
33 01 30 86-0025	VLF Up To 26" Diameter Precast Concrete Manhole Riser.....	130.74	
33 01 30 86-0026	VLF >26" To 36" Diameter Precast Concrete Manhole Riser.....	155.57	
33 01 30 86-0027	VLF >36" To 48" Diameter Precast Concrete Manhole Riser.....	176.04	
33 01 30 86-0028	VLF >48" To 60" Diameter Precast Concrete Manhole Riser.....	359.50	
33 01 30 86-0029	VLF >60" To 72" Diameter Precast Concrete Manhole Riser.....	526.52	
33 01 30 89 By-Pass Piping and Pumping of Sewer Utilities (33 01 30)			
33 01 30 89-0001	Set-Up By-Pass Pumping Unit (33 01 30 89) Note: Excludes pump and hose rental. See CSI section 01 22 23 00-1016 for pump rental, 01 22 23 00-1049 for suction hose, 01 22 23 00-1068 for discharge hose.		
33 01 30 89-0002	EA Set-up By-Pass Pumping Unit	2,080.51	
33 01 30 89-0003	EA Re-Set Up/Move By-Pass Pumping Unit	1,040.25	
33 01 30 89-0004	By-Pass Pumping (33 01 30 89) Note: Excludes pump rental. See CSI section 01 22 23 00-1016 for pump rental.		
33 01 30 89-0005	DAY Maintain And Operate By-Pass Pumping Unit	520.13	
33 01 30 89-0006	WK Maintain And Operate By-Pass Pumping Unit.....	2,600.64	
33 01 30 89-0007	MO Maintain And Operate By-Pass Pumping Unit.....	10,922.66	
33 01 30 89-0008	Temporary Bypass And Service Lines (33 01 30 89) Note: Laid on ground, includes fittings and connections. Remove after use.		
33 01 30 89-0009	Temporary Water Service Lines (33 01 30 89-0008) Note: Laid on ground, includes fittings, connections and chlorination prior to each use. Remove after use.		
33 01 30 89-0010	LF 1/2" Temporary Service Hose With Fittings	3.69	
	Note: Includes removal after use.		

33 Utilities**33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 89-0011	LF	3/4" Temporary Service Hose With Fittings Note: Includes removal after use.	4.68	
33 01 30 89-0012	LF	1" Temporary Service Hose With Fittings Note: Includes removal after use.	5.44	
33 01 30 89-0013	LF	1-1/2" Temporary Service Hose With Fittings Note: Includes removal after use.	6.49	
33 01 30 89-0014	LF	2" Temporary Service Hose With Fittings Note: Includes removal after use.	7.97	
33 01 30 89-0015	EA	Temporary Service Valve Assembly At Fire Hydrant Note: Includes removal after use.	408.41	
33 01 30 89-0016		Temporary Bypass Water Main Lines (33 01 30 89-0008) Note: Laid on ground, includes fittings, connections and chlorination prior to each use. Remove after use.		
33 01 30 89-0017	LF	2" Temporary Bypass Pipe With Fittings..... Note: Includes removal after use.	8.29	
		For >500 To 1,000, Deduct	-0.57	
		For >1,000 To 5,000, Deduct	-1.13	
		For >5,000, Deduct	-1.89	
33 01 30 89-0018	LF	4" Temporary Bypass Pipe With Fittings..... Note: Includes removal after use.	10.49	
		For >500 To 1,000, Deduct	-0.73	
		For >1,000 To 5,000, Deduct	-1.46	
		For >5,000, Deduct	-2.43	
33 01 30 89-0019	LF	6" Temporary Bypass Pipe With Fittings..... Note: Includes removal after use.	12.89	
		For >500 To 1,000, Deduct	-0.85	
		For >1,000 To 5,000, Deduct	-1.70	
		For >5,000, Deduct	-2.84	
33 01 30 89-0020	LF	8" Temporary Bypass Pipe With Fittings..... Note: Includes removal after use.	16.27	
		For >500 To 1,000, Deduct	-1.02	
		For >1,000 To 5,000, Deduct	-2.04	
		For >5,000, Deduct	-3.41	
33 01 30 89-0021		Piping Protection For Temporary Water Line (33 01 30 89-0008)		
33 01 30 89-0022	LF	Cold Mix For Temporary Pipe Note: Install along each side of pipe edge. Unit of measure "LF" is for length of pipe and includes both sides of pipe.	3.20	
33 01 30 89-0023		Drill Meter Cover For Temporary Water Line (33 01 30 89-0008)		
33 01 30 89-0024	EA	Drill Meter Cover For Temporary Bypass Pipe	16.44	

33 05 Common Work Results for Utilities (33)**33 05 07 Trenchless Installation of Utility Piping** (33 05)**33 05 07 13 Utility Directional Drilling** (33 05 07)

33 05 07 13-0001		Horizontal Augering (33 05 07 13) Note: Excludes starting or receiving pits, dewatering, cost of casing pipe or spoils removal.		
33 05 07 13-0002	LF	Up To 2" Diameter Horizontal Hand Augering	25.46	
33 05 07 13-0003	LF	3" Diameter Horizontal Hand Augering	30.72	
33 05 07 13-0004	LF	4" Diameter Horizontal Hand Augering	42.13	
33 05 07 13-0005	LF	6" Diameter Horizontal Hand Augering	54.42	
33 05 07 13-0006	LF	8" Diameter Horizontal Augering.....	95.91	
33 05 07 13-0007	LF	10" Diameter Horizontal Augering.....	139.92	
33 05 07 13-0008	LF	12" Diameter Horizontal Augering.....	168.12	
33 05 07 13-0009	LF	16" Diameter Horizontal Augering.....	200.85	
33 05 07 13-0010	LF	20" Diameter Horizontal Augering.....	347.53	
33 05 07 13-0011	LF	24" Diameter Horizontal Augering.....	437.24	
33 05 07 13-0012	LF	30" Diameter Horizontal Augering.....	539.31	
33 05 07 13-0013	LF	36" Diameter Horizontal Augering.....	616.18	
33 05 07 13-0014	LF	42" Diameter Horizontal Augering.....	797.24	
33 05 07 13-0015	LF	48" Diameter Horizontal Augering.....	859.04	
33 05 07 13-0016	LF	54" Diameter Horizontal Augering.....	934.26	
33 05 07 13-0017	LF	60" Diameter Horizontal Augering.....	979.46	
33 05 07 13-0018	EA	8" To 20" Horizontal Augering Minimum Set-up Charge..... Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	4,062.06	
33 05 07 13-0019	EA	>20" To 36" Horizontal Augering Minimum Set-up Charge..... Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	5,544.29	
33 05 07 13-0020	EA	>36" Horizontal Augering Minimum Set-up Charge Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	8,138.67	
33 05 07 13-0021		Horizontal Directional Boring (33 05 07 13) Note: Excludes receiving pits or dewatering or cost of casing pipe.		



		Utilities	33	CS
		Common Work Results for Utilities	33 05	
		Trenchless Installation of Utility Piping	33 05 07	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 07 13-0022 LF Up To 1-1/2" Diameter Directional Boring For Horizontal Pipe, Underground	13.29	
For Horizontal Boring Through Rock, Add	9.30	
33 05 07 13-0023 LF 2" Diameter Directional Boring For Horizontal Pipe, Underground	19.94	
For Horizontal Boring Through Rock, Add	13.96	
33 05 07 13-0024 LF 2-1/2" Diameter Directional Boring For Horizontal Pipe, Underground	27.69	
For Horizontal Boring Through Rock, Add	19.38	
33 05 07 13-0025 LF 3" Diameter Directional Boring For Horizontal Pipe, Underground	34.34	
For Horizontal Boring Through Rock, Add	24.04	
33 05 07 13-0026 LF 4" Diameter Directional Boring For Horizontal Pipe, Underground	40.98	
For Horizontal Boring Through Rock, Add	28.69	
33 05 07 13-0027 LF 5" Diameter Directional Boring For Horizontal Pipe, Underground	47.63	
For Horizontal Boring Through Rock, Add	33.34	
33 05 07 13-0028 LF 6" Diameter Directional Boring For Horizontal Pipe, Underground	55.39	
For Horizontal Boring Through Rock, Add	38.77	
33 05 07 13-0029 LF 8" Diameter Directional Boring For Horizontal Pipe, Underground	67.70	
For Horizontal Boring Through Rock, Add	47.39	
33 05 07 13-0030 LF 10" Diameter Directional Boring For Horizontal Pipe, Underground	73.34	
For Horizontal Boring Through Rock, Add	51.34	
33 05 07 13-0031 LF 12" Diameter Directional Boring For Horizontal Pipe, Underground	78.99	
For Horizontal Boring Through Rock, Add	55.29	
33 05 07 13-0032 LF 18" Diameter Directional Boring For Horizontal Pipe, Underground	163.61	
For Horizontal Boring Through Rock, Add	114.53	
33 05 07 13-0033 LF 24" Diameter Directional Boring For Horizontal Pipe, Underground	258.31	
For Horizontal Boring Through Rock, Add	180.82	
33 05 07 13-0034 LF 30" Diameter Directional Boring For Horizontal Pipe, Underground	393.77	
For Horizontal Boring Through Rock, Add	275.64	
33 05 07 13-0035 LF 36" Diameter Directional Boring For Horizontal Pipe, Underground	630.03	
For Horizontal Boring Through Rock, Add	441.02	
33 05 07 13-0036 EA Up To 6" Horizontal Directional Boring Minimum Set-up Charge.....	3,544.78	
Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 13-0037 EA >6" To 18" Horizontal Directional Boring Minimum Set-up Charge.....	4,062.06	
Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 13-0038 EA >18" To 36" Horizontal Directional Boring Minimum Set-up Charge.....	5,544.29	
Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		

33 05 07 23 Utility Boring and Jacking (33 05 07)

33 05 07 23-0001 Horizontal Jacking (33 05 07 23)

Note: Includes cost of steel casing pipe, excludes dewatering and excavation for jacking pit or receiving pit.

33 05 07 23-0002 LF Up To 2" Diameter Horizontal Jacking	74.32	
For Horizontal Jacking Through Rock, Add	30.60	
33 05 07 23-0003 LF 3" Diameter Horizontal Jacking	88.92	
For Horizontal Jacking Through Rock, Add	36.92	
33 05 07 23-0004 LF 4" Diameter Horizontal Jacking	119.66	
For Horizontal Jacking Through Rock, Add	50.65	
33 05 07 23-0005 LF 6" Diameter Horizontal Jacking	154.67	
For Horizontal Jacking Through Rock, Add	65.41	
33 05 07 23-0006 LF 8" Diameter Horizontal Jacking	208.80	
For Horizontal Jacking Through Rock, Add	89.66	
33 05 07 23-0007 LF 10" Diameter Horizontal Jacking	306.56	
For Horizontal Jacking Through Rock, Add	130.82	
33 05 07 23-0008 LF 12" Diameter Horizontal Jacking	369.28	
For Horizontal Jacking Through Rock, Add	157.19	
33 05 07 23-0009 LF 16" Diameter Horizontal Jacking	440.85	
For Horizontal Jacking Through Rock, Add	187.80	
33 05 07 23-0010 LF 20" Diameter Horizontal Jacking	663.31	
For Horizontal Jacking Through Rock, Add	326.00	
33 05 07 23-0011 LF 24" Diameter Horizontal Jacking	1,218.45	
For Horizontal Jacking Through Rock, Add	365.86	
33 05 07 23-0012 LF 30" Diameter Horizontal Jacking	1,396.82	
For Horizontal Jacking Through Rock, Add	451.75	
33 05 07 23-0013 LF 36" Diameter Horizontal Jacking	1,572.86	
For Horizontal Jacking Through Rock, Add	516.54	
33 05 07 23-0014 LF 42" Diameter Horizontal Jacking	1,687.47	
For Horizontal Jacking Through Rock, Add	557.80	
33 05 07 23-0015 LF 48" Diameter Horizontal Jacking	1,832.71	
For Horizontal Jacking Through Rock, Add	601.02	
33 05 07 23-0016 LF 54" Diameter Horizontal Jacking	1,950.01	
For Horizontal Jacking Through Rock, Add	654.09	
33 05 07 23-0017 EA Up To 6" Horizontal Jacking Minimum Set-up Charge.....	3,544.78	
Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 23-0018 EA >6" To 20" Horizontal Jacking Minimum Set-up Charge	4,062.06	
Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 23-0019 EA >20" To 36" Horizontal Jacking Minimum Set-up Charge	5,544.29	
Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
33 05 07 23-0020 EA >36" Horizontal Jacking Minimum Set-up Charge	8,138.67	
Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		

33 Utilities**33 05 Common Work Results for Utilities****33 05 07 Trenchless Installation of Utility Piping**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 05 07 24 Casing Piping for Utility Jacking (33 05 07)

33 05 07 24-0001	Casing Pipe (33 05 07 24)	
	Note: Casing pipe is pulled back from hook on boring auger through slurry. Costs are installed costs. Excludes boring.	
33 05 07 24-0002	Steel Pipe (33 05 07 24-0001)	
33 05 07 24-0003	LF 1-1/2" Steel Pipe Pull In Place By Boring Machine	26.71
	Note: Includes pipe welding.	
33 05 07 24-0004	LF 2" Steel Pipe Pull In Place By Boring Machine	28.24
	Note: Includes pipe welding.	
33 05 07 24-0005	LF 2-1/2" Steel Pipe Pull In Place By Boring Machine	30.60
	Note: Includes pipe welding.	
33 05 07 24-0006	LF 3" Steel Pipe Pull In Place By Boring Machine	33.00
	Note: Includes pipe welding.	
33 05 07 24-0007	LF 4" Steel Pipe Pull In Place By Boring Machine	42.23
	Note: Includes pipe welding.	
33 05 07 24-0008	LF 5" Steel Pipe Pull In Place By Boring Machine	47.98
	Note: Includes pipe welding.	
33 05 07 24-0009	LF 6" Steel Pipe Pull In Place By Boring Machine	53.74
	Note: Includes pipe welding.	
33 05 07 24-0010	Polyethylene Pipe (33 05 07 24-0001)	
33 05 07 24-0011	LF 3/4" Polyethylene Pipe Pull In Place By Boring Machine	6.72
	Note: Includes pipe welding.	
33 05 07 24-0012	LF 1" Polyethylene Pipe Pull In Place By Boring Machine	7.34
	Note: Includes pipe welding.	
33 05 07 24-0013	LF 1-1/4" Polyethylene Pipe Pull In Place By Boring Machine	7.95
	Note: Includes pipe welding.	
33 05 07 24-0014	LF 1-1/2" Polyethylene Pipe Pull In Place By Boring Machine	8.50
	Note: Includes pipe welding.	
33 05 07 24-0015	LF 2" Polyethylene Pipe Pull In Place By Boring Machine	9.11
	Note: Includes pipe welding.	
33 05 07 24-0016	LF 2-1/2" Polyethylene Pipe Pull In Place By Boring Machine	9.77
	Note: Includes pipe welding.	
33 05 07 24-0017	LF 3" Polyethylene Pipe Pull In Place By Boring Machine	10.45
	Note: Includes pipe welding.	
33 05 07 24-0018	LF 4" Polyethylene Pipe Pull In Place By Boring Machine	12.83
	Note: Includes pipe welding.	
33 05 07 24-0019	LF 5" Polyethylene Pipe Pull In Place By Boring Machine	14.29
	Note: Includes pipe welding.	
33 05 07 24-0020	LF 6" Polyethylene Pipe Pull In Place By Boring Machine	15.75
	Note: Includes pipe welding.	
33 05 07 24-0021	LF 8" Polyethylene Pipe Pull In Place By Boring Machine	20.82
	Note: Includes pipe welding.	
33 05 07 24-0022	LF 10" Polyethylene Pipe Pull In Place By Boring Machine	28.74
	Note: Includes pipe welding.	

33 05 09 Piping Specials for Utilities (33 05)

33 05 09 23 Adapters for Utility Piping (33 05 09)
See CSI section 33 14 13 53-0222 for ductile iron body adapters, 33 14 13 53-0229 for steel body adapters.

33 05 09 33 Thrust Restraint for Utility Piping (33 05 09)
See CSI section 33 14 13 13-0545 for mechanical restraints, 33 14 13 13-0580 for flanged restraints, 33 14 13 13-1152 for slip-on restraints, 33 14 13 13-1168 for slip-on restraint harnesses.

33 05 17 Copper Utility Pipe and Tubing (33 05)
See CSI section 33 14 13 39-0000 for copper utility piping.

33 05 19 Ductile-Iron Utility Pipe (33 05)
See CSI section 33 14 13 13-0000 for ductile iron utility piping.

33 05 24 Steel Utility Pipe (33 05)

33 05 24 23 Steel Pipe for Water Service (33 05 24)
See CSI section 33 14 13 36-0000 for steel utility piping.

33 05 27 Corrugated Metal Utility Pipe (33 05)

33 05 27 13 Corrugated Metal Culvert Pipe (33 05 27)
See CSI section 33 42 11 00-0486 for corrugated metal culvert pipe.

33 05 27 23 Corrugated Metal Slotted Pipe (33 05 27)
See CSI section 33 41 16 13-0085 for corrugated metal slotted pipe.

33 05 27 33 Corrugated Metal Culvert Arch Pipe (33 05 27)
See CSI section 33 42 11 00-0830 for corrugated metal culvert arch pipe.

33 05 31 Thermoplastic Utility Pipe (33 05)

33 05 31 11 Polyvinyl Chloride Gravity Sewer Pipe (33 05 31)



		Utilities	33
		Common Work Results for Utilities	33 05
		Thermoplastic Utility Pipe	33 05 31

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
		See CSI section 33 31 11 00-0000 for polyvinyl chloride gravity sewer pipe.		
33 05 31 13		Polyvinyl Chloride Pressure Pipe ^(33 05 31)		
		See CSI section 33 14 13 23-0256 for polyvinyl chloride pressure pipe.		
33 05 31 16		Polyvinyl Chloride Pressure Pipe for Water Transmission and Distribution (AWWA C900 and AWWA C905) ^(33 05 31)		
		See CSI section 33 14 13 23-0001 for AWWA C900 and 905 polyvinyl chloride pressure pipe.		
33 05 33		Polyethylene Utility Pipe ^(33 05)		
33 05 33 13		Corrugated-Wall, Smooth Interior HDPE Gravity Pipe ^(33 05 33)		
		See CSI section 33 42 11 00-0227 for corrugated-wall smooth interior HDPE gravity pipe.		
33 05 33 23		Polyethylene Pressure Pipe and Tubing (AWWA C901 and AWWA C906) ^(33 05 33)		
		See CSI section 33 14 13 23-0426 for AWWA C906 high density polyethylene pipe.		
33 05 33 33		Corrugated, Perforated HDPE Drainage Pipe ^(33 05 33)		
		See CSI section 33 42 11 00-0249 for corrugated perforated HDPE drainage pipe.		
33 05 33 36		Corrugated, Non-Perforated HDPE Drainage Pipe ^(33 05 33)		
		See CSI section 33 41 16 13-0002 for corrugated non-perforated HDPE drainage pipe.		
33 05 33 63		HDPE Communication Duct ^(33 05 33)		
33 05 33 63-0001		ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine ^(33 05 33 63)		
		Note: Excludes boring.		
33 05 33 63-0002	LF	1" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	3.58	
		For Up To 250, Add.....	0.12	
		For >250 To 500, Add.....	0.08	
33 05 33 63-0003	LF	1-1/4" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	4.02	
		For Up To 250, Add.....	0.14	
		For >250 To 500, Add.....	0.10	
33 05 33 63-0004	LF	1-1/2" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	4.36	
		For Up To 250, Add.....	0.16	
		For >250 To 500, Add.....	0.11	
33 05 33 63-0005	LF	2" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	4.80	
		For Up To 250, Add.....	0.20	
		For >250 To 500, Add.....	0.13	
33 05 33 63-0006	LF	3" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	6.50	
		For Up To 250, Add.....	0.41	
		For >250 To 500, Add.....	0.27	
33 05 33 63-0007	LF	4" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	8.26	
		For Up To 250, Add.....	0.63	
		For >250 To 500, Add.....	0.42	
33 05 33 63-0008	LF	1" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	3.67	
		For Up To 250, Add.....	0.13	
		For >250 To 500, Add.....	0.09	
33 05 33 63-0009	LF	1-1/4" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	4.17	
		For Up To 250, Add.....	0.17	
		For >250 To 500, Add.....	0.11	
33 05 33 63-0010	LF	1-1/2" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	4.49	
		For Up To 250, Add.....	0.18	
		For >250 To 500, Add.....	0.12	
33 05 33 63-0011	LF	2" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	5.12	
		For Up To 250, Add.....	0.24	
		For >250 To 500, Add.....	0.16	
33 05 33 63-0012	LF	3" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	7.20	
		For Up To 250, Add.....	0.51	
		For >250 To 500, Add.....	0.34	
33 05 33 63-0013	LF	4" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	9.14	
		For Up To 250, Add.....	0.76	
		For >250 To 500, Add.....	0.51	
33 05 39		Concrete Pipe ^(33 05)		
33 05 39 13		Prestressed Concrete Pressure Pipe, Steel-Cylinder Type (AWWA C301) ^(33 05 39)		
		See CSI section 33 42 11 00-0080 for prestressed concrete pressure pipe.		
33 05 39 41		Reinforced Concrete Pipe for Sewers and Culverts ^(33 05 39)		
		See CSI section 33 42 11 00-0001 for reinforced concrete pipe.		
33 05 39 46		Reinforced Concrete Elliptical Pipe for Sewers and Culverts ^(33 05 39)		

33 Utilities**33 05 Common Work Results for Utilities****33 05 39 Concrete Pipe**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

See CSI section 33 42 11 00-0019 for reinforced concrete elliptical pipe.

33 05 41 Vitrified Clay Utility Pipe (33 05)

See CSI section 33 42 11 00-0353 for vitrified clay piping.

33 05 61 Concrete Manholes (33 05)

33 05 61 00-0001	Manholes	(33 05 61)		
33 05 61 00-0002	Precast Concrete Manholes	(33 05 61 00-0001)		
Note: Includes base, riser(s), reducer and openings. Excludes excavation, aggregate, backfill and frame/cover. See CSI section 33 05 84 00-0002 for top slabs.				
33 05 61 00-0003	3' Diameter, Precast Concrete Manholes	(33 05 61 00-0002)		
33 05 61 00-0004	EA 4' Deep, 3' Diameter, Precast Concrete Manhole	1,625.64	282.60	
	For Bitumastic Coating, Add	76.62		
	For Epoxy Coating, Add	146.41		
33 05 61 00-0005	EA 6' Deep, 3' Diameter, Precast Concrete Manhole	2,213.42	405.91	
	For Bitumastic Coating, Add	114.93		
	For Epoxy Coating, Add	219.61		
33 05 61 00-0006	EA 8' Deep, 3' Diameter, Precast Concrete Manhole	2,975.89	616.58	
	For Bitumastic Coating, Add	153.23		
	For Epoxy Coating, Add	292.82		
33 05 61 00-0007	VLF Riser For 3' Diameter, Precast Concrete Manhole	314.44	71.93	
	Note: For depths greater than 8'.			
	For Bitumastic Coating, Add	19.15		
	For Epoxy Coating, Add	36.60		
33 05 61 00-0008	VLF Drop Collar For 3' Diameter, Precast Concrete Manhole	339.46	71.93	
33 05 61 00-0009	EA Drop Base For 3' Diameter, Precast Concrete Manhole	547.70	71.93	
33 05 61 00-0010	EA Extended Base Slab For 3' Diameter, Precast Concrete Manhole	435.87	71.93	
33 05 61 00-0011	EA Precast Channel For 3' Diameter, Precast Concrete Manhole	626.33	71.93	
33 05 61 00-0012	4' Diameter, Precast Concrete Manholes	(33 05 61 00-0002)		
33 05 61 00-0013	EA 4' Deep, 4' Diameter, Precast Concrete Manhole	2,339.03	323.70	
	For Bitumastic Coating, Add	76.62		
	For Epoxy Coating, Add	146.41		
33 05 61 00-0014	EA 6' Deep, 4' Diameter, Precast Concrete Manhole	3,120.80	441.88	
	For Bitumastic Coating, Add	114.93		
	For Epoxy Coating, Add	219.61		
33 05 61 00-0015	EA 8' Deep, 4' Diameter, Precast Concrete Manhole	4,108.94	667.96	
	For Bitumastic Coating, Add	153.23		
	For Epoxy Coating, Add	292.82		
33 05 61 00-0016	VLF Riser For 4' Diameter, Precast Concrete Manhole	438.39	84.78	
	Note: For depths greater than 8'.			
	For Bitumastic Coating, Add	19.15		
	For Epoxy Coating, Add	36.60		
33 05 61 00-0017	VLF Drop Collar For 4' Diameter, Precast Concrete Manhole	478.21	84.78	
33 05 61 00-0018	EA Drop Base For 4' Diameter, Precast Concrete Manhole	809.53	84.78	
33 05 61 00-0019	EA Extended Base Slab For 4' Diameter, Precast Concrete Manhole	631.61	84.78	
33 05 61 00-0020	EA Precast Channel For 4' Diameter, Precast Concrete Manhole	934.68	84.78	
33 05 61 00-0021	5' Diameter, Precast Concrete Manholes	(33 05 61 00-0002)		
33 05 61 00-0022	EA 4' Deep, 5' Diameter, Precast Concrete Manhole	4,426.61	359.67	
	For Bitumastic Coating, Add	98.72		
	For Epoxy Coating, Add	236.03		
33 05 61 00-0023	EA 6' Deep, 5' Diameter, Precast Concrete Manhole	5,893.71	493.26	
	For Bitumastic Coating, Add	148.07		
	For Epoxy Coating, Add	354.04		
33 05 61 00-0024	EA 8' Deep, 5' Diameter, Precast Concrete Manhole	7,589.54	739.89	
	For Bitumastic Coating, Add	197.43		
	For Epoxy Coating, Add	472.05		
33 05 61 00-0025	VLF Riser For 5' Diameter, Precast Concrete Manhole	786.55	92.49	
	Note: For depths greater than 8'.			
	For Bitumastic Coating, Add	24.68		
	For Epoxy Coating, Add	59.01		
33 05 61 00-0026	6' Diameter, Precast Concrete Manholes	(33 05 61 00-0002)		
33 05 61 00-0027	EA 4' Deep, 6' Diameter, Precast Concrete Manhole	5,950.61	400.77	
	For Bitumastic Coating, Add	113.02		
	For Epoxy Coating, Add	276.32		
33 05 61 00-0028	EA 6' Deep, 6' Diameter, Precast Concrete Manhole	7,747.02	544.65	
	For Bitumastic Coating, Add	169.52		
	For Epoxy Coating, Add	414.49		
33 05 61 00-0029	EA 8' Deep, 6' Diameter, Precast Concrete Manhole	9,799.54	822.10	
	For Bitumastic Coating, Add	226.03		
	For Epoxy Coating, Add	552.65		
33 05 61 00-0030	VLF Riser For 6' Diameter, Precast Concrete Manhole	956.68	102.76	
	Note: For depths greater than 8'.			
	For Bitumastic Coating, Add	28.25		
	For Epoxy Coating, Add	69.08		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 61 00-0031			7' Diameter, Precast Concrete Manholes (33 05 61 00-0002)		
33 05 61 00-0032	EA		4' Deep, 7' Diameter, Precast Concrete Manhole.....	9,406.74	441.88
			For Bitumastic Coating, Add	240.33	
			For Epoxy Coating, Add	482.86	
33 05 61 00-0033	EA		6' Deep, 7' Diameter, Precast Concrete Manhole.....	12,160.09	602.70
			For Bitumastic Coating, Add	360.50	
			For Epoxy Coating, Add	724.29	
33 05 61 00-0034	EA		8' Deep, 7' Diameter, Precast Concrete Manhole.....	15,195.01	904.31
			For Bitumastic Coating, Add	480.66	
			For Epoxy Coating, Add	965.71	
33 05 61 00-0035	VLF		Riser For 7' Diameter, Precast Concrete Manhole.....	1,441.93	113.04
			Note: For depths greater than 8'.		
			For Bitumastic Coating, Add	60.08	
			For Epoxy Coating, Add	120.71	
33 05 61 00-0036			8' Diameter, Precast Concrete Manholes (33 05 61 00-0002)		
33 05 61 00-0037	EA		4' Deep, 8' Diameter, Precast Concrete Manhole.....	13,631.04	508.67
			For Bitumastic Coating, Add	284.12	
			For Epoxy Coating, Add	588.56	
33 05 61 00-0038	EA		6' Deep, 8' Diameter, Precast Concrete Manhole.....	17,670.01	693.64
			For Bitumastic Coating, Add	426.19	
			For Epoxy Coating, Add	882.84	
33 05 61 00-0039	EA		8' Deep, 8' Diameter, Precast Concrete Manhole.....	22,032.66	1,040.48
			For Bitumastic Coating, Add	568.25	
			For Epoxy Coating, Add	1,177.12	
33 05 61 00-0040	VLF		Riser For 8' Diameter, Precast Concrete Manhole.....	2,091.41	128.46
			Note: For depths greater than 8'.		
			For Bitumastic Coating, Add	71.03	
			For Epoxy Coating, Add	147.14	
33 05 63			Concrete Vaults and Chambers (33 05)		
33 05 63 00-0001			Underground Utility Vaults And Structures (33 05 63)		
			See CSI section 33 05 61 00-0001 for manholes, 33 05 81 00-0006 for frames and covers.		
33 05 63 00-0002			Precast Concrete Underground Utility Vault (33 05 63 00-0001)		
			Note: Sizes given are for inside dimensions.		
33 05 63 00-0003			6' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)		
33 05 63 00-0004	EA		4' x 4' x 6' Precast Concrete Underground Utility Vault.....	3,178.55	
			Note: 6" thick walls and 8" thick top.		
33 05 63 00-0005	EA		4' x 6' x 6' Precast Concrete Underground Utility Vault.....	4,143.28	
			Note: 6" thick walls and 8" thick top.		
33 05 63 00-0006	EA		5' x 10' x 6' Precast Concrete Underground Utility Vault.....	6,835.47	
			Note: 6" thick walls and 8" thick top.		
33 05 63 00-0007	EA		5' x 12' x 6' Precast Concrete Underground Utility Vault.....	7,892.64	
			Note: 6" thick walls and 8" thick top.		
33 05 63 00-0008	EA		6' x 6' x 6' Precast Concrete Underground Utility Vault.....	5,294.93	
			Note: 6" thick walls and 8" thick top.		
33 05 63 00-0009	EA		6' x 8' x 6' Precast Concrete Underground Utility Vault.....	6,445.52	
			Note: 6" thick walls and 8" thick top.		
33 05 63 00-0010	EA		6' x 10' x 6' Precast Concrete Underground Utility Vault.....	7,597.16	
			Note: 6" thick walls and 8" thick top.		
33 05 63 00-0011	EA		6' x 12' x 6' Precast Concrete Underground Utility Vault.....	10,976.45	
			Note: 8" thick walls and top.		
33 05 63 00-0012	EA		6' x 14' x 6' Precast Concrete Underground Utility Vault.....	10,976.45	
			Note: 8" thick walls and top.		
33 05 63 00-0013	EA		6' x 16' x 6' Precast Concrete Underground Utility Vault.....	13,821.08	
			Note: 8" thick walls and top.		
33 05 63 00-0014	EA		8' x 8' x 6' Precast Concrete Underground Utility Vault.....	7,784.10	
			Note: 6" thick walls and 8" thick top.		
33 05 63 00-0015	EA		8' x 10' x 6' Precast Concrete Underground Utility Vault.....	9,121.65	
			Note: 6" thick walls and 8" thick top.		
33 05 63 00-0016	EA		8' x 12' x 6' Precast Concrete Underground Utility Vault.....	13,038.63	
			Note: 8" thick walls and top.		
33 05 63 00-0017	EA		8' x 14' x 6' Precast Concrete Underground Utility Vault.....	14,674.93	
			Note: 8" thick walls and top.		
33 05 63 00-0018			7' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)		
33 05 63 00-0019	EA		4' x 4' x 7' Precast Concrete Underground Utility Vault.....	4,555.44	
			Note: 6" thick walls and 8" thick top.		
33 05 63 00-0020	EA		4' x 6' x 7' Precast Concrete Underground Utility Vault.....	5,915.14	
			Note: 6" thick walls and 8" thick top.		
33 05 63 00-0021	EA		4' x 8' x 7' Precast Concrete Underground Utility Vault.....	5,588.04	
			Note: 6" thick walls and 8" thick top.		
33 05 63 00-0022	EA		5' x 10' x 7' Precast Concrete Underground Utility Vault.....	7,435.56	
			Note: 6" thick walls and 8" thick top.		
33 05 63 00-0023	EA		5' x 12' x 7' Precast Concrete Underground Utility Vault.....	8,573.40	
			Note: 6" thick walls and 8" thick top.		
33 05 63 00-0024	EA		6' x 6' x 7' Precast Concrete Underground Utility Vault.....	7,518.09	
			Note: 6" thick walls and 8" thick top.		

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0025 EA 6' x 8' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,006.31	
33 05 63 00-0026 EA 6' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	10,724.04	
33 05 63 00-0027 EA 6' x 12' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	11,936.55	
33 05 63 00-0028 EA 6' x 16' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	14,994.65	
33 05 63 00-0029 EA 8' x 8' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,424.50	
33 05 63 00-0030 EA 8' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,841.73	
33 05 63 00-0031 EA 8' x 12' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	14,106.07	
33 05 63 00-0032 EA 8' x 14' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	15,847.47	
33 05 63 00-0033 EA 10' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	14,318.75	
33 05 63 00-0034 8' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)		
33 05 63 00-0035 EA 4' x 4' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	3,818.97	
33 05 63 00-0036 EA 4' x 6' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	4,944.07	
33 05 63 00-0037 EA 5' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,035.63	
33 05 63 00-0038 EA 5' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,253.13	
33 05 63 00-0039 EA 6' x 6' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,255.04	
33 05 63 00-0040 EA 6' x 8' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,566.03	
33 05 63 00-0041 EA 6' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,877.03	
33 05 63 00-0042 EA 6' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	12,896.64	
33 05 63 00-0043 EA 6' x 16' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	16,168.30	
33 05 63 00-0044 EA 8' x 8' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,063.92	
33 05 63 00-0045 EA 8' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	10,561.80	
33 05 63 00-0046 EA 8' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	15,172.39	
33 05 63 00-0047 EA 8' x 14' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	17,021.11	
33 05 63 00-0048 EA 10' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	15,385.87	
33 05 63 00-0049 10' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)		
33 05 63 00-0050 EA 6' x 6' x 10' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,735.11	
33 05 63 00-0051 EA 6' x 8' x 10' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,125.74	
33 05 63 00-0052 EA 10' x 10' x 10' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	16,452.15	
33 05 63 00-0053 12' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)		
33 05 63 00-0054 EA 6' x 6' x 12' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,215.17	
33 05 63 00-0055 EA 6' x 8' x 12' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,686.51	
33 05 63 00-0056 Meter Pit (33 05 63 00-0001)		
33 05 63 00-0057 Precast Concrete Meter Pit (33 05 63 00-0056)		
33 05 63 00-0058 EA 4' x 4' x 4' Deep Precast Concrete Meter Pit.....	3,125.76	
33 05 63 00-0059 EA 4' x 4' x 6' Deep Precast Concrete Meter Pit.....	4,233.02	
33 05 63 00-0060 EA 4' x 4' x 8' Deep Precast Concrete Meter Pit.....	5,306.88	
33 05 63 00-0061 EA 4' x 4' x 10' Deep Precast Concrete Meter Pit.....	6,570.64	
33 05 63 00-0062 EA 4' x 4' x 15' Deep Precast Concrete Meter Pit.....	9,066.00	
33 05 63 00-0063 EA 6' x 6' x 4' Deep Precast Concrete Meter Pit.....	4,734.85	
33 05 63 00-0064 EA 6' x 6' x 6' Deep Precast Concrete Meter Pit.....	6,570.64	
33 05 63 00-0065 EA 6' x 6' x 8' Deep Precast Concrete Meter Pit.....	8,458.33	
33 05 63 00-0066 EA 6' x 6' x 10' Deep Precast Concrete Meter Pit.....	10,552.35	
33 05 63 00-0067 EA 6' x 6' x 15' Deep Precast Concrete Meter Pit.....	14,974.91	
33 05 63 00-0068 Handhole Or Pull Box Enclosures (33 05 63 00-0001)		



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0069		Polymer Concrete Handhole Enclosures (33 05 63 00-0069)		
33 05 63 00-0070		Polymer Concrete Handhole Enclosures (33 05 63 00-0069)		
33 05 63 00-0071		Flared Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0070)		
33 05 63 00-0072		Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0071)		
33 05 63 00-0073	EA	12" x 12", 24" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	562.60	23.16
33 05 63 00-0074	EA	10" x 15", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	439.00	51.43
33 05 63 00-0075	EA	13" x 24", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	672.30	77.15
33 05 63 00-0076	EA	17" x 30", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	800.10	77.15
33 05 63 00-0077	EA	13" x 24", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	757.87	77.15
33 05 63 00-0078	EA	13" x 24", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	942.20	77.15
33 05 63 00-0079	EA	17" x 30", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	914.38	77.15
33 05 63 00-0080	EA	17" x 30", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,287.62	77.15
33 05 63 00-0081	EA	27" Round, 36" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,838.83	102.86
33 05 63 00-0082	EA	27" Round, 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	2,642.07	102.86
33 05 63 00-0083	EA	24" x 36", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,597.94	141.44
33 05 63 00-0084	EA	24" x 36", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,849.48	141.44
33 05 63 00-0085	EA	24" x 36", 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	3,158.04	141.44
33 05 63 00-0086	EA	39" Round, 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,701.55	154.30
33 05 63 00-0087	EA	39" Round, 24" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	2,525.51	154.30
33 05 63 00-0088	EA	39" Round, 36" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	3,199.31	154.30
33 05 63 00-0089	EA	39" Round, 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	4,792.98	154.30
33 05 63 00-0090	EA	30" x 48", 24" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	2,441.47	240.25
33 05 63 00-0091	EA	30" x 48", 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	3,681.58	240.25
33 05 63 00-0092		Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0071)		
33 05 63 00-0093	EA	12" x 12", 24" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	729.56	23.16
33 05 63 00-0094	EA	13" x 24", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	871.15	77.15
33 05 63 00-0095	EA	17" x 30", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,076.87	77.15
33 05 63 00-0096	EA	13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	984.79	77.15
33 05 63 00-0097	EA	13" x 24", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,142.33	77.15
33 05 63 00-0098	EA	17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,183.64	77.15
33 05 63 00-0099	EA	17" x 30", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	1,559.20	77.15
33 05 63 00-0100	EA	24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	2,020.79	141.44
33 05 63 00-0101	EA	24" x 36", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	2,272.33	141.44
33 05 63 00-0102	EA	24" x 36", 48" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	3,580.93	141.44
33 05 63 00-0103	EA	30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	2,935.62	240.25
33 05 63 00-0104	EA	30" x 48", 48" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	4,185.14	240.25
33 05 63 00-0105		Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0070)		
33 05 63 00-0106		Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)		
33 05 63 00-0107	EA	5" x 16", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	944.42	23.16
33 05 63 00-0108	EA	10" x 12", 15" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	793.31	23.16
33 05 63 00-0109	EA	13" x 24", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	560.78	77.15

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0110 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	649.94	77.15
33 05 63 00-0111 EA 6" x 8", 6" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	196.38	23.16
33 05 63 00-0112 EA 12" x 12", 12" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	322.75	23.16
33 05 63 00-0113 EA 8" x 18", 7" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	542.08	23.16
33 05 63 00-0114 EA 8" x 18", 8" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	568.63	23.16
33 05 63 00-0115 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	429.74	51.43
33 05 63 00-0116 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	470.46	51.43
33 05 63 00-0117 EA 8" x 8", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	317.32	23.16
33 05 63 00-0118 EA 8" x 8", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	367.06	23.16
33 05 63 00-0119 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	466.23	51.43
33 05 63 00-0120 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	534.68	51.43
33 05 63 00-0121 EA 11" x 20", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	490.37	51.43
33 05 63 00-0122 EA 13" x 24", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	564.93	77.15
33 05 63 00-0123 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	632.06	77.15
33 05 63 00-0124 EA 17" x 30", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	682.00	77.15
33 05 63 00-0125 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	757.20	77.15
33 05 63 00-0126 EA 17" x 30", 22" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	907.15	77.15
33 05 63 00-0127 EA 17" x 30", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	998.12	77.15
33 05 63 00-0128 EA 17" x 30", 28" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,097.67	77.15
33 05 63 00-0129 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,160.25	77.15
33 05 63 00-0130 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,367.00	102.86
33 05 63 00-0131 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,325.44	141.44
33 05 63 00-0132 EA 24" x 36", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,761.39	141.44
33 05 63 00-0133 EA 24" x 36", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,163.92	141.44
33 05 63 00-0134 EA 24" x 36", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,418.14	141.44
33 05 63 00-0135 EA 24" x 36", 42" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,671.00	141.44
33 05 63 00-0136 EA 36" x 36", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,925.28	240.25
33 05 63 00-0137 EA 30" x 48", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,034.10	240.25
33 05 63 00-0138 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,356.97	240.25
33 05 63 00-0139 EA 30" x 48", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,974.37	240.25
33 05 63 00-0140 EA 30" x 60", 21" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,968.03	240.25
33 05 63 00-0141 EA 30" x 60", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,198.49	240.25
33 05 63 00-0142 EA 30" x 60", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,641.70	240.25
33 05 63 00-0143 EA 36" x 60", 19" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,296.31	257.40
33 05 63 00-0144 EA 36" x 60", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,609.24	257.40
33 05 63 00-0145 EA 36" x 60", 31" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	4,008.74	257.40
33 05 63 00-0146 EA 36" x 60", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	4,168.60	257.40
33 05 63 00-0147 EA 48" x 48", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	4,224.16	257.40
33 05 63 00-0148 EA 48" x 48", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	4,832.90	257.40
33 05 63 00-0149 EA 36" x 72", 21" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,650.71	257.40
33 05 63 00-0150 EA 36" x 72", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	4,933.36	257.40
33 05 63 00-0151 EA 48" x 72", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	5,575.10	274.56
33 05 63 00-0152 EA 48" x 72", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	6,970.67	274.56
33 05 63 00-0153 EA 48" x 96", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	9,050.50	274.56



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0154		Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)		
33 05 63 00-0155	EA	13" x 24", 12" Depth, 5,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	792.28	77.15
33 05 63 00-0156	EA	17" x 30", 12" Depth, 5,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	924.56	77.15
33 05 63 00-0157	EA	6" x 8", 6" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	354.92	23.16
33 05 63 00-0158	EA	12" x 12", 12" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	527.63	23.16
33 05 63 00-0159	EA	8" x 18", 7" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	718.55	23.16
33 05 63 00-0160	EA	8" x 18", 8" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	745.13	23.16
33 05 63 00-0161	EA	10" x 15", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure	603.57	51.43
33 05 63 00-0162	EA	11" x 18", 12" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	631.91	51.43
33 05 63 00-0163	EA	11" x 18", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	669.79	51.43
33 05 63 00-0164	EA	8" x 8", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	490.19	23.16
33 05 63 00-0165	EA	8" x 8", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	585.27	23.16
33 05 63 00-0166	EA	11" x 18", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	668.87	51.43
33 05 63 00-0167	EA	11" x 18", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	737.33	51.43
33 05 63 00-0168	EA	11" x 20", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	695.18	51.43
33 05 63 00-0169	EA	13" x 24", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	791.00	77.15
33 05 63 00-0170	EA	13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	858.98	77.15
33 05 63 00-0171	EA	17" x 30", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	951.78	77.15
33 05 63 00-0172	EA	17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,026.50	77.15
33 05 63 00-0173	EA	17" x 30", 22" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,176.02	77.15
33 05 63 00-0174	EA	17" x 30", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,267.38	77.15
33 05 63 00-0175	EA	17" x 30", 28" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,366.49	77.15
33 05 63 00-0176	EA	17" x 30", 30" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,429.52	77.15
33 05 63 00-0177	EA	24" x 24", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,738.97	102.86
33 05 63 00-0178	EA	24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,748.33	141.44
33 05 63 00-0179	EA	24" x 36", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,183.76	141.44
33 05 63 00-0180	EA	24" x 36", 30" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,585.86	141.44
33 05 63 00-0181	EA	24" x 36", 36" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,839.68	141.44
33 05 63 00-0182	EA	24" x 36", 42" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,093.38	141.44
33 05 63 00-0183	EA	30" x 48", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,523.58	240.25
33 05 63 00-0184	EA	30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,846.93	240.25
33 05 63 00-0185	EA	30" x 48", 36" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,463.85	240.25
33 05 63 00-0186		Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)		
33 05 63 00-0187	EA	13" x 24", 12" Depth, 5,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	718.36	77.15
33 05 63 00-0188	EA	17" x 30", 12" Depth, 5,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	854.31	77.15
33 05 63 00-0189	EA	6" x 8", 6" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	253.86	23.16
33 05 63 00-0190	EA	12" x 12", 12" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	438.90	23.16
33 05 63 00-0191	EA	8" x 18", 7" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	644.70	23.16
33 05 63 00-0192	EA	8" x 18", 8" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	671.77	23.16
33 05 63 00-0193	EA	11" x 18", 12" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	554.96	51.43
33 05 63 00-0194	EA	11" x 18", 18" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	633.75	51.43
33 05 63 00-0195	EA	8" x 8", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	379.99	23.16
33 05 63 00-0196	EA	11" x 18", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	593.67	51.43

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0197	EA	11" x 18", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	691.82	51.43
33 05 63 00-0198	EA	11" x 20", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	619.18	51.43
33 05 63 00-0199	EA	13" x 24", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	780.58	77.15
33 05 63 00-0200	EA	13" x 24", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	914.78	77.15
33 05 63 00-0201	EA	17" x 30", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	959.40	77.15
33 05 63 00-0202	EA	17" x 30", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,065.66	77.15
33 05 63 00-0203	EA	17" x 30", 22" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,163.41	77.15
33 05 63 00-0204	EA	17" x 30", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,255.69	77.15
33 05 63 00-0205	EA	17" x 30", 28" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,420.93	77.15
33 05 63 00-0206	EA	17" x 30", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,443.97	77.15
33 05 63 00-0207	EA	24" x 24", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,767.78	102.86
33 05 63 00-0208	EA	24" x 36", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,785.69	141.44
33 05 63 00-0209	EA	24" x 36", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,266.58	141.44
33 05 63 00-0210	EA	24" x 36", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,742.17	141.44
33 05 63 00-0211	EA	24" x 36", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,058.05	141.44
33 05 63 00-0212	EA	24" x 36", 42" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,373.94	141.44
33 05 63 00-0213	EA	36" x 36", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,513.82	240.25
33 05 63 00-0214	EA	30" x 48", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,622.69	240.25
33 05 63 00-0215	EA	30" x 48", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	2,970.74	240.25
33 05 63 00-0216	EA	30" x 48", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,587.70	240.25
33 05 63 00-0217	EA	30" x 60", 21" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,859.84	240.25
33 05 63 00-0218	EA	30" x 60", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	3,945.06	240.25
33 05 63 00-0219	EA	30" x 60", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	4,771.77	240.25
33 05 63 00-0220	EA	36" x 60", 19" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	4,378.15	257.40
33 05 63 00-0221	EA	36" x 60", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	4,539.84	257.40
33 05 63 00-0222	EA	36" x 60", 31" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	4,998.50	257.40
33 05 63 00-0223	EA	36" x 60", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	5,345.64	257.40
33 05 63 00-0224	EA	36" x 72", 21" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	4,881.63	257.40
33 05 63 00-0225	EA	36" x 72", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	6,123.14	257.40
33 05 63 00-0226	EA	48" x 48", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	5,268.17	257.40
33 05 63 00-0227	EA	48" x 48", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	5,825.21	257.40
33 05 63 00-0228	EA	48" x 72", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	7,107.34	274.56
33 05 63 00-0229	EA	48" x 72", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	8,503.48	274.56
33 05 63 00-0230	EA	48" x 96", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	11,601.73	274.56
33 05 63 00-0231		Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)		
33 05 63 00-0232	EA	13" x 24", 12" Depth, 5,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	949.82	77.15
33 05 63 00-0233	EA	17" x 30", 12" Depth, 5,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	1,129.44	77.15
33 05 63 00-0234	EA	6" x 8", 6" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	411.12	23.16
33 05 63 00-0235	EA	12" x 12", 12" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	643.39	23.16
33 05 63 00-0236	EA	8" x 18", 7" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	820.81	23.16
33 05 63 00-0237	EA	8" x 18", 8" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	848.23	23.16



		Utilities	33	CS
		Common Work Results for Utilities	33 05	
		Concrete Vaults and Chambers	33 05 63	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0238	EA	11" x 18", 12" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	757.60	51.43
33 05 63 00-0239	EA	11" x 18", 18" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	835.91	51.43
33 05 63 00-0240	EA	8" x 8", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	604.71	23.16
33 05 63 00-0241	EA	11" x 18", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	795.40	51.43
33 05 63 00-0242	EA	11" x 18", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	893.55	51.43
33 05 63 00-0243	EA	11" x 20", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	766.14	51.43
33 05 63 00-0244	EA	13" x 24", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,007.58	77.15
33 05 63 00-0245	EA	13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,141.77	77.15
33 05 63 00-0246	EA	17" x 30", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,228.67	77.15
33 05 63 00-0247	EA	17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,334.96	77.15
33 05 63 00-0248	EA	17" x 30", 22" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,432.67	77.15
33 05 63 00-0249	EA	17" x 30", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,524.99	77.15
33 05 63 00-0250	EA	17" x 30", 28" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,690.28	77.15
33 05 63 00-0251	EA	17" x 30", 30" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	1,713.23	77.15
33 05 63 00-0252	EA	24" x 24", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,139.27	102.86
33 05 63 00-0253	EA	24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,208.55	141.44
33 05 63 00-0254	EA	24" x 36", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	2,689.00	141.44
33 05 63 00-0255	EA	24" x 36", 30" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,164.06	141.44
33 05 63 00-0256	EA	24" x 36", 36" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,480.19	141.44
33 05 63 00-0257	EA	24" x 36", 42" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,796.31	141.44
33 05 63 00-0258	EA	30" x 48", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,112.60	240.25
33 05 63 00-0259	EA	30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	3,461.13	240.25
33 05 63 00-0260	EA	30" x 48", 36" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure	4,077.65	240.25
33 05 63 00-0261		Footed, Straight Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0105)		
33 05 63 00-0262	EA	17" x 30", 12" Depth, 5,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	774.80	77.15
33 05 63 00-0263	EA	11" x 18", 12" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	524.30	51.43
33 05 63 00-0264	EA	11" x 18", 18" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	599.98	51.43
33 05 63 00-0265	EA	13" x 24", 12" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	676.57	77.15
33 05 63 00-0266	EA	11" x 18", 12" Depth, 22,500 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	549.09	51.43
33 05 63 00-0267	EA	11" x 18", 18" Depth, 22,500 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure	621.57	51.43
33 05 63 00-0268		Polymer Concrete Handhole Enclosure Extensions (33 05 63 00-0069)		
33 05 63 00-0269	EA	13" x 24", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	535.67	77.15
33 05 63 00-0270	EA	17" x 30", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	614.54	77.15
33 05 63 00-0271	EA	24" x 24", 6" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	684.38	102.86
33 05 63 00-0272	EA	24" x 24", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	761.82	102.86
33 05 63 00-0273	EA	24" x 36", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	873.88	141.44
33 05 63 00-0274	EA	36" x 36", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	1,574.77	240.25
33 05 63 00-0275	EA	30" x 48", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	1,490.11	240.25
33 05 63 00-0276	EA	30" x 48", 11" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	1,508.59	240.25
33 05 63 00-0277	EA	36" x 60", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	2,126.65	257.40
33 05 63 00-0278	EA	48" x 72", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	3,559.69	274.56
33 05 63 00-0279	EA	48" x 96", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension.....	4,789.46	274.56
33 05 63 00-0280	EA	13" x 24", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	949.50	77.15
33 05 63 00-0281	EA	17" x 30", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	997.68	77.15

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0282 EA 24" x 24", 6" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	1,037.39	102.86
33 05 63 00-0283 EA 24" x 24", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	1,115.66	102.86
33 05 63 00-0284 EA 24" x 36", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	1,261.06	141.44
33 05 63 00-0285 EA 30" x 48", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension.....	2,037.26	240.25
33 05 63 00-0286 EA 13" x 24", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension.....	713.97	77.15
33 05 63 00-0287 EA 17" x 30", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension.....	809.00	77.15
33 05 63 00-0288 EA 24" x 36", 4" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension.....	1,010.23	141.44
33 05 63 00-0289 EA 36" x 60", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension.....	2,036.00	257.40

33 05 63 00-0290 Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0069)**33 05 63 00-0291 Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)**

33 05 63 00-0292 EA 5" x 16", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	216.08	10.30
33 05 63 00-0293 EA 10" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	219.12	10.30
33 05 63 00-0294 EA 12" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	201.75	10.30
33 05 63 00-0295 EA 8" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	219.72	10.30
33 05 63 00-0296 EA 11" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	222.03	10.29
33 05 63 00-0297 EA 13" x 24", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	257.40	10.29
33 05 63 00-0298 EA 17" x 30", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	301.14	10.29
33 05 63 00-0299 EA 30" x 59", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	2,042.46	30.89
33 05 63 00-0300 EA 30" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	1,781.62	30.89
33 05 63 00-0301 EA 36" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	2,690.15	30.89
33 05 63 00-0302 EA 48" x 48", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	2,721.13	30.89
33 05 63 00-0303 EA 36" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	3,088.74	30.89
33 05 63 00-0304 EA 48" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	3,369.54	30.89
33 05 63 00-0305 EA 48" x 96", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	5,442.71	30.89
33 05 63 00-0306 EA 10" x 15", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	182.48	10.29
33 05 63 00-0307 EA 11" x 18", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	269.29	10.29
33 05 63 00-0308 EA 11" x 20", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	273.32	10.29
33 05 63 00-0309 EA 13" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	348.56	10.29
33 05 63 00-0310 EA 13" x 24", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover.....	258.51	10.29
33 05 63 00-0311 EA 17" x 30", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	415.66	10.29
33 05 63 00-0312 EA 17" x 30", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover.....	322.46	10.29
33 05 63 00-0313 EA 27" Round, 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	680.81	10.29
33 05 63 00-0314 EA 24" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	585.24	15.43
33 05 63 00-0315 EA 24" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	740.35	15.43
33 05 63 00-0316 EA 39" Round, 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	957.55	18.00
33 05 63 00-0317 EA 36" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	1,349.08	24.03
33 05 63 00-0318 EA 30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover.....	1,398.03	45.76
33 05 63 00-0319 EA 11" x 18", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	353.07	10.29
33 05 63 00-0320 EA 13" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	511.13	10.29
33 05 63 00-0321 EA 17" x 30", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	584.10	10.29
33 05 63 00-0322 EA 27" Round, 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	983.24	10.29
33 05 63 00-0323 EA 24" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	798.47	15.43
33 05 63 00-0324 EA 39" Round, 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	1,363.68	18.00
33 05 63 00-0325 EA 36" x 36", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	1,789.02	24.03
33 05 63 00-0326 EA 30" x 59", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	2,416.42	30.89
33 05 63 00-0327 EA 30" x 60", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	2,143.12	30.89
33 05 63 00-0328 EA 36" x 60", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	3,012.19	30.89
33 05 63 00-0329 EA 48" x 48", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	3,936.45	30.89
33 05 63 00-0330 EA 36" x 72", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	3,767.85	30.89
33 05 63 00-0331 EA 48" x 72", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	5,743.70	30.89
33 05 63 00-0332 EA 48" x 96", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	8,897.35	30.89
33 05 63 00-0333 EA 11" x 18", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	470.18	10.29
33 05 63 00-0334 EA 11" x 20", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	515.84	10.29
33 05 63 00-0335 EA 13" x 24", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	684.96	10.29
33 05 63 00-0336 EA 17" x 30", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	783.11	10.29
33 05 63 00-0337 EA 27" Round, 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	1,366.78	10.29
33 05 63 00-0338 EA 24" x 24", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	979.20	15.43
33 05 63 00-0339 EA 24" x 36", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	1,348.73	15.43
33 05 63 00-0340 EA 39" Round, 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	2,101.58	18.00
33 05 63 00-0341 EA 36" x 36", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	2,401.43	24.03
33 05 63 00-0342 EA 30" x 48", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	2,494.52	45.76
33 05 63 00-0343 EA 30" x 60", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	2,886.93	30.89
33 05 63 00-0344 EA 36" x 60", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	4,048.89	30.89
33 05 63 00-0345 EA 48" x 48", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	5,683.23	30.89
33 05 63 00-0346 EA 36" x 72", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	5,066.43	30.89
33 05 63 00-0347 EA 48" x 72", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	8,426.88	30.89
33 05 63 00-0348 EA 48" x 96", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover.....	13,032.43	30.89

33 05 63 00-0349 Polymer Concrete Handhole Enclosure Covers With Gaskets (33 05 63 00-0290)

33 05 63 00-0350 EA 12" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket.....	250.85	10.30



MINOR	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0351	EA	8" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	266.14	10.30
33 05 63 00-0352	EA	11" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	271.13	10.29
33 05 63 00-0353	EA	13" x 24", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	273.00	10.29
33 05 63 00-0354	EA	17" x 30", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	317.83	10.29
33 05 63 00-0355	EA	10" x 15", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	196.57	10.29
33 05 63 00-0356	EA	11" x 18", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	283.74	10.29
33 05 63 00-0357	EA	11" x 20", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	286.53	10.29
33 05 63 00-0358	EA	13" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	363.45	10.29
33 05 63 00-0359	EA	13" x 24", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover With Gasket	274.72	10.29
33 05 63 00-0360	EA	17" x 30", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover With Gasket	339.58	10.29
33 05 63 00-0361	EA	17" x 30", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	431.42	10.29
33 05 63 00-0362	EA	24" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	595.82	15.43
33 05 63 00-0363	EA	24" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	756.60	15.43
33 05 63 00-0364	EA	30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	1,414.71	45.76
33 05 63 00-0365	EA	6" x 8", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	160.72	10.30
33 05 63 00-0366	EA	8" x 8", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	261.35	10.30
33 05 63 00-0367	EA	8" x 18", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	292.72	10.30
33 05 63 00-0368	EA	12" x 12", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	278.79	10.30
33 05 63 00-0369	EA	10" x 15", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	226.54	10.29
33 05 63 00-0370	EA	11" x 18", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	367.48	10.29
33 05 63 00-0371	EA	11" x 20", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	400.05	10.29
33 05 63 00-0372	EA	13" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	526.46	10.29
33 05 63 00-0373	EA	17" x 30", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	600.74	10.29
33 05 63 00-0374	EA	24" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	813.35	15.43
33 05 63 00-0375	EA	24" x 36", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	1,022.23	15.43
33 05 63 00-0376	EA	30" x 48", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket	1,876.24	45.76
33 05 63 00-0377 Polymer Concrete Handhole Enclosure Covers Without Bolts (33 05 63 00-0290)				
33 05 63 00-0378	EA	6" x 9", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	126.12	10.30
33 05 63 00-0379	EA	7" x 13", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	153.18	10.30
33 05 63 00-0380	EA	12" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	189.62	10.30
33 05 63 00-0381	EA	8" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	205.83	10.30
33 05 63 00-0382	EA	11" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	205.39	10.29
33 05 63 00-0383	EA	13" x 24", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	246.90	10.29
33 05 63 00-0384	EA	17" x 30", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	287.69	10.29
33 05 63 00-0385	EA	24" x 36", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	713.77	15.43
33 05 63 00-0386	EA	30" x 48", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	1,337.28	45.76
33 05 63 00-0387	EA	30" x 59", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	2,019.67	30.89
33 05 63 00-0388	EA	30" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	1,755.87	30.89
33 05 63 00-0389	EA	48" x 48", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	2,647.80	30.89
33 05 63 00-0390	EA	36" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	2,553.49	30.89
33 05 63 00-0391	EA	36" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	3,064.15	30.89
33 05 63 00-0392	EA	48" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	3,278.70	30.89
33 05 63 00-0393	EA	48" x 96", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	5,268.12	30.89
33 05 63 00-0394	EA	10" x 15", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	174.77	10.29
33 05 63 00-0395	EA	10" x 16", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	170.26	10.29
33 05 63 00-0396	EA	11" x 20", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	259.55	10.29
33 05 63 00-0397	EA	11" x 21", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	286.89	10.29
33 05 63 00-0398	EA	13" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	326.97	10.29
33 05 63 00-0399	EA	13" x 24", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover Without Bolts	244.54	10.29
33 05 63 00-0400	EA	18" x 19", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	274.72	10.29
33 05 63 00-0401	EA	17" x 30", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	396.74	10.29
33 05 63 00-0402	EA	24" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	572.99	15.43
33 05 63 00-0403	EA	20" x 42", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	722.19	15.43
33 05 63 00-0404	EA	24" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	713.33	15.43
33 05 63 00-0405	EA	36" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	1,293.68	24.03
33 05 63 00-0406	EA	30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts	1,337.28	27.45
33 05 63 00-0407 Overlapping, Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)				
33 05 63 00-0408	EA	30" x 60", 5,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	2,104.65	30.89
33 05 63 00-0409	EA	36" x 60", 5,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	3,067.31	30.89
33 05 63 00-0410	EA	30" x 48", 8,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	1,763.64	45.76
33 05 63 00-0411	EA	30" x 48", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	2,351.31	45.76
33 05 63 00-0412	EA	30" x 60", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	2,508.86	30.89
33 05 63 00-0413	EA	36" x 60", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover	3,435.36	30.89
33 05 63 00-0414 Split, Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)				
33 05 63 00-0415	EA	24" x 36", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover	813.63	15.43
33 05 63 00-0416	EA	36" x 36", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover	1,522.47	24.03
33 05 63 00-0417	EA	30" x 48", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover	1,588.54	45.76
33 05 63 00-0418	EA	6" x 8", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	118.57	10.30
33 05 63 00-0419	EA	8" x 8", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	207.26	10.30
33 05 63 00-0420	EA	12" x 12", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	229.70	10.30
33 05 63 00-0421	EA	8" x 18", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	244.54	10.30
33 05 63 00-0422	EA	10" x 15", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	212.57	10.29

33 Utilities**33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0423	EA	11" x 20", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	386.84	10.29
33 05 63 00-0424	EA	24" x 36", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	1,098.54	15.43
33 05 63 00-0425	EA	36" x 36", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	2,036.29	24.03
33 05 63 00-0426	EA	30" x 48", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover	2,130.70	45.76
33 05 63 00-0427		Precast Concrete Handholes With Steel Cover (33 05 63 00-0068)		
		Note: 8000 To 12000 pound traffic rated top. Includes cover stamped with utility (Electrical, Sewer, Water, Etc.).		
33 05 63 00-0428	EA	12" x 12" x 12" Precast Concrete Handholes With Steel Cover	844.67	244.00
		Note: 8000 To 12000 pound traffic rated top.		
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	18.00	
33 05 63 00-0429	EA	12" x 24" x 21" Precast Concrete Handholes With Steel Cover	1,412.33	366.00
		Note: 8000 To 12000 pound traffic rated top.		
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	107.54	
33 05 63 00-0430	EA	18" x 30" x 18" Precast Concrete Handholes With Steel Cover	1,719.56	488.00
		Note: 8000 To 12000 pound traffic rated top.		
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	188.43	
33 05 63 00-0431	EA	24" x 24" x 24" Precast Concrete Handholes With Steel Cover	1,783.02	488.00
		Note: 8000 To 12000 pound traffic rated top.		
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	238.11	
33 05 63 00-0432	EA	24" x 24" x 30" Precast Concrete Handholes With Steel Cover	2,102.31	610.00
		Note: 8000 To 12000 pound traffic rated top.		
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	286.71	
33 05 63 00-0433	EA	30" x 36" x 30" Precast Concrete Handholes With Steel Cover	2,207.96	610.00
		Note: 8000 To 12000 pound traffic rated top.		
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	315.16	
33 05 63 00-0434	EA	36" x 36" x 48" Precast Concrete Handholes With Steel Cover	2,555.64	732.01
		Note: 8000 To 12000 pound traffic rated top.		
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	368.22	
33 05 63 00-0435	EA	48" x 48" x 48" Precast Concrete Handholes With Steel Cover	2,936.66	854.01
		Note: 8000 To 12000 pound traffic rated top.		
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	514.63	
33 05 63 00-0436	EA	48" x 72" x 36" Precast Concrete Handholes With Steel Cover	2,868.57	732.01
		Note: 8000 To 12000 pound traffic rated top.		
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	557.54	
33 05 63 00-0437	EA	54" x 38" x 24" Precast Concrete Handholes With Steel Cover	2,895.49	732.01
		Note: 8000 To 12000 pound traffic rated top.		
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	387.34	
33 05 63 00-0438	EA	6" Diameter Precast Concrete Handholes With Steel Cover	672.39	244.00
		Note: 8000 To 12000 pound traffic rated top.		
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	15.00	
33 05 63 00-0439	EA	9" Diameter Precast Concrete Handholes With Steel Cover	790.09	274.50
		Note: 8000 To 12000 pound traffic rated top.		
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	15.00	
33 05 63 00-0440	EA	12" Diameter Precast Concrete Handholes With Steel Cover	964.44	305.01
		Note: 8000 To 12000 pound traffic rated top.		
		For 15,000 to 22,500 Pound Traffic Rated Top, Add	15.00	
33 05 81 Metallic Castings for Utility Structures (33 05)				
33 05 81 00-0001		Manhole Accessories (33 05 81)		
33 05 81 00-0002		Steps For Cast-In-Place Manholes (33 05 81 00-0001)		
		See CSI section 33 01 30 81-0032 for installation of steps in existing manholes.		
33 05 81 00-0003	EA	Cast Iron Manhole Step For New Manholes	113.09	
33 05 81 00-0004	EA	Galvanized Steel Manhole Step For New Manholes	66.05	
33 05 81 00-0005	EA	Aluminum Manhole Step For New Manholes	93.28	
33 05 81 00-0006		Manhole Covers And Frames (33 05 81)		
		Note: Includes moisture-tight masonry joints and waterproof grouting.		
33 05 81 00-0007		Regular Manhole Covers And Frames (33 05 81 00-0006)		
33 05 81 00-0008	EA	18" Square, Gray Iron, Manhole Cover With Frame	1,835.31	88.38
		For Ductile Iron Castings, Add	1,097.69	
33 05 81 00-0009	EA	18" Diameter, Gray Iron, Manhole Cover With Frame	1,028.35	88.38
		For Ductile Iron Castings, Add	532.82	
33 05 81 00-0010	EA	24" Diameter, Gray Iron, Manhole Cover With Frame	1,188.35	102.76
		For Ductile Iron Castings, Add	616.04	
33 05 81 00-0011	EA	24" Square, Gray Iron, Manhole Cover With Frame	1,871.66	114.06
		For Ductile Iron Castings, Add	1,070.38	
33 05 81 00-0012	EA	26" Diameter, Gray Iron, Manhole Cover With Frame	1,584.50	123.31
		For Ductile Iron Castings, Add	849.16	
33 05 81 00-0013	EA	30" Diameter, Gray Iron, Manhole Cover With Frame	1,653.12	128.46
		For Ductile Iron Castings, Add	887.44	
33 05 81 00-0014		Watertight Type Manhole Covers And Frames (33 05 81 00-0006)		
33 05 81 00-0015	EA	20" Diameter, Gray Iron, Watertight Manhole Cover With Frame	2,022.03	72.96
		For Ductile Iron Castings, Add	1,212.13	
33 05 81 00-0016	EA	22" Diameter, Gray Iron, Watertight Manhole Cover With Frame	2,051.61	72.96
		For Ductile Iron Castings, Add	1,216.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 81 00-0017 EA 24" Diameter, Gray Iron, Watertight Manhole Cover With Frame For Ductile Iron Castings, Add	2,091.28 1,224.12	85.29
33 05 81 00-0018 EA 26" Diameter, Gray Iron, Watertight Manhole Cover With Frame For Ductile Iron Castings, Add	2,492.05 1,484.44	95.57
33 05 81 00-0019 EA 30" Diameter, Gray Iron, Watertight Manhole Cover With Frame For Ductile Iron Castings, Add	2,888.79 1,752.41	97.63
33 05 81 00-0020 EA 32" Diameter, Gray Iron, Watertight Manhole Cover With Frame For Ductile Iron Castings, Add	3,041.17 1,855.55	99.68
33 05 81 00-0021 EA 36" Diameter, Gray Iron, Watertight Manhole Cover With Frame For Ductile Iron Castings, Add	3,177.70 1,947.44	102.76
33 05 81 00-0022 Aluminum Manhole Covers And Frames (33 05 81 00-0006)		
33 05 81 00-0023 EA 12" Square Aluminum Manhole Cover With Frame	1,154.33	30.48
33 05 81 00-0024 EA 18" Square Aluminum Manhole Cover With Frame	2,121.23	33.74
33 05 81 00-0025 EA 24" Square Aluminum Manhole Cover With Frame	3,047.13	39.19
33 05 81 00-0026 Removal And Reinstallation Of Manhole Cover And Frame (33 05 81 00-0006) Note: Includes surrounding asphalt removal and repair. Excludes saw cutting.		
33 05 81 00-0027 EA Removal And Reinstallation Of Manhole Cover And Frame	412.01	
33 05 83 Non-Metallic Accessories for Utility Structures (33 05)		
33 05 83 00-0001 Manhole Accessories (33 05 83)		
33 05 83 00-0002 Steps For Cast-In-Place Manholes (33 05 83 00-0001) See CSI section 33 01 30 81-0032 for installation of steps in existing manholes.		
33 05 83 00-0003 EA Polypropylene Manhole Step For New Manholes	50.50	
33 05 83 00-0004 Rainguard Inflow Protectors (33 05 83)		
33 05 83 00-0005 EA 18" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	133.91	21.94
33 05 83 00-0006 EA 22" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	156.53	21.94
33 05 83 00-0007 EA 24" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	187.11	26.33
33 05 83 00-0008 EA 26" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	201.41	26.33
33 05 83 00-0009 EA 30" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	250.80	30.72
33 05 83 00-0010 EA 32" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors	268.36	30.72
33 05 84 Accessories for Utility Structures (33 05) See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.		
33 05 84 00-0001 Manhole Accessories (33 05 84)		
33 05 84 00-0002 Precast Concrete Manhole Tops (33 05 84 00-0001)		
33 05 84 00-0003 Precast Concrete Manhole Slab Tops (33 05 84 00-0002)		
33 05 84 00-0004 EA 3' Diameter x 8" Thick Precast Manhole Top Slab	584.07	77.08
33 05 84 00-0005 EA 4' Diameter x 8" Thick Precast Manhole Top Slab	824.07	83.23
33 05 84 00-0006 EA 5' Diameter x 8" Thick Precast Manhole Top Slab	1,122.13	89.40
33 05 84 00-0007 EA 6' Diameter x 8" Thick Precast Manhole Top Slab	1,346.96	95.57
33 05 84 00-0008 Precast Concrete Manhole Cone Tops (33 05 84 00-0002)		
33 05 84 00-0009 EA 3' Diameter x 8" Thick Precast Manhole Top Cone	936.94	96.34
33 05 84 00-0010 EA 3'-6" Diameter x 8" Thick Precast Manhole Top Cone	1,044.27	100.19
33 05 84 00-0011 EA 4' Diameter x 8" Thick Precast Manhole Top Cone	1,151.64	104.04
33 05 84 00-0012 EA 5' Diameter x 8" Thick Precast Manhole Top Cone	1,361.17	110.47
33 05 84 00-0013 EA 6' Diameter x 8" Thick Precast Manhole Top Cone	1,575.87	118.18
33 05 84 00-0014 EA 7' Diameter x 8" Thick Precast Manhole Top Cone	2,515.44	125.88
33 05 84 00-0015 EA 8' Diameter x 10" Thick Precast Manhole Top Cone	3,164.93	138.73
33 05 84 00-0016 Precast Concrete Manhole Reducer Slabs (33 05 84 00-0002)		
33 05 84 00-0017 EA 5' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	1,241.23	89.40
33 05 84 00-0018 EA 6' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	1,604.19	95.57
33 05 84 00-0019 EA 7' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	2,127.12	95.57
33 05 84 00-0020 EA 8' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	3,383.56	95.57
33 05 84 00-0021 EA 10' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	4,361.03	95.57
33 05 84 00-0022 EA 12' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab	6,329.39	95.57
33 05 84 00-0023 Pipe To Manhole Connector (33 05 84 00-0001)		
33 05 84 00-0024 Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connectors (33 05 84 00-0023)		
33 05 84 00-0025 EA 4" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	112.76	
33 05 84 00-0026 EA 6" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	167.53	
33 05 84 00-0027 EA 8" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector	188.79	

33 Utilities**33 05 Common Work Results for Utilities****33 05 84 Accessories for Utility Structures**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 84 00-0028 EA 10" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	287.88	
33 05 84 00-0029 EA 12" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	403.26	
33 05 84 00-0030 EA 15" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	532.87	
33 05 84 00-0031 EA 18" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	965.18	
33 05 84 00-0032 EA 21" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	1,341.70	
33 05 84 00-0033 EA 24" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	2,122.72	
33 05 84 00-0034 EA 27" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	2,497.52	
33 05 84 00-0035 Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout (33 05 84 00-0023) Note: Fernco CMA.		
33 05 84 00-0036 EA 4" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	108.53	
33 05 84 00-0037 EA 6" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	150.99	
33 05 84 00-0038 EA 8" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	190.86	
33 05 84 00-0039 EA 10" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	230.53	
33 05 84 00-0040 EA 12" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	267.38	
33 05 84 00-0041 Brick And Grout Pipe To Manhole Connector (33 05 84 00-0023)		
33 05 84 00-0042 EA Seal Gap Between Pipe And Structure With Brick And Grout.....	278.12	
33 05 84 00-0043 Inverts For Manholes (33 05 84 00-0001)		
33 05 84 00-0044 EA Single Channel Concrete Invert For Manholes.....	460.42	
33 05 84 00-0045 EA Double Channel Concrete Invert For Manholes.....	659.41	
33 05 84 00-0046 EA Triple Channel Concrete Invert For Manholes.....	889.71	
33 05 84 00-0047 EA Quad Channel Concrete Invert For Manholes.....	1,119.94	
33 05 84 00-0048 EA Single Channel Brick Invert For Manholes.....	663.53	
33 05 84 00-0049 EA Double Channel Brick Invert For Manholes.....	993.11	
33 05 84 00-0050 EA Triple Channel Brick Invert For Manholes.....	1,328.27	
33 05 84 00-0051 EA Quad Channel Brick Invert For Manholes.....	1,659.97	
33 05 84 00-0052 Protective Coating For New Manholes (33 05 84 00-0001)		
33 05 84 00-0053 Polyurethane Protective Coating For New Manholes (33 05 84 00-0052)		
33 05 84 00-0054 VLF 60 Mil Polyurethane Coating Of 3' Diameter Manhole Interior.....	211.65	
For 80 Mil Material, Add	31.14	
For 100 Mil Material, Add	62.28	
For 125 Mil Material, Add	98.34	
For 150 Mil Material, Add	134.40	
For 200 Mil Material, Add	198.90	
For 2 To 5 Manholes, Deduct	-14.40	
For 6 To 10 Manholes, Deduct	-23.50	
For >10 Manholes, Deduct	-47.00	
33 05 84 00-0055 VLF 60 Mil Polyurethane Coating Of 3-1/2' Diameter Manhole Interior.....	255.48	
For 80 Mil Material, Add	36.99	
For 100 Mil Material, Add	73.98	
For 125 Mil Material, Add	116.72	
For 150 Mil Material, Add	159.46	
For 200 Mil Material, Add	235.61	
For 2 To 5 Manholes, Deduct	-17.44	
For 6 To 10 Manholes, Deduct	-28.48	
For >10 Manholes, Deduct	-56.97	
33 05 84 00-0056 VLF 60 Mil Polyurethane Coating Of 4' Diameter Manhole Interior.....	282.21	
For 80 Mil Material, Add	41.52	
For 100 Mil Material, Add	83.04	
For 125 Mil Material, Add	131.13	
For 150 Mil Material, Add	179.21	
For 200 Mil Material, Add	265.21	
For 2 To 5 Manholes, Deduct	-19.20	
For 6 To 10 Manholes, Deduct	-31.34	
For >10 Manholes, Deduct	-62.67	
33 05 84 00-0057 VLF 60 Mil Polyurethane Coating Of 5' Diameter Manhole Interior.....	352.83	
For 80 Mil Material, Add	51.92	
For 100 Mil Material, Add	103.84	
For 125 Mil Material, Add	163.98	
For 150 Mil Material, Add	224.11	
For 200 Mil Material, Add	331.66	
For 2 To 5 Manholes, Deduct	-24.00	
For 6 To 10 Manholes, Deduct	-39.18	
For >10 Manholes, Deduct	-78.35	
33 05 84 00-0058 VLF 60 Mil Polyurethane Coating Of 6' Diameter Manhole Interior.....	409.82	
For 80 Mil Material, Add	61.28	
For 100 Mil Material, Add	122.57	
For 125 Mil Material, Add	193.71	
For 150 Mil Material, Add	264.85	
For 200 Mil Material, Add	392.54	
For 2 To 5 Manholes, Deduct	-27.78	
For 6 To 10 Manholes, Deduct	-45.32	
For >10 Manholes, Deduct	-90.63	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 84 00-0059 Polyvinyl Chloride (PVC) Liner (33 05 84 00-0052) Note: For new manholes and shop applied.		
33 05 84 00-0060 VLF 3' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	277.85	
33 05 84 00-0061 VLF 3-1/2' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	340.59	
33 05 84 00-0062 VLF 4' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	415.64	
33 05 84 00-0063 VLF 5' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	521.96	
33 05 84 00-0064 VLF 6' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole	628.29	
33 05 84 00-0065 SF Polyvinyl Chloride (PVC) Liner At Structures	56.82	
33 05 84 00-0066 Concrete Grade Extensions/Grade Rings (33 05 84 00-0001)		
33 05 84 00-0067 18" Diameter, Concrete Grade Extensions/Grade Rings (33 05 84 00-0066)		
33 05 84 00-0068 EA 4" Rise, 18" Diameter, Concrete Grade Extensions/Grade Rings	89.73	
33 05 84 00-0069 EA 6" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring	98.42	
33 05 84 00-0070 EA 8" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring	107.12	
33 05 84 00-0071 EA 10" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring	115.81	
33 05 84 00-0072 24" Diameter, Concrete Grade Extensions/Grade Rings (33 05 84 00-0066)		
33 05 84 00-0073 EA 4" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	100.79	
33 05 84 00-0074 EA 6" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	110.67	
33 05 84 00-0075 EA 8" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	120.55	
33 05 84 00-0076 EA 10" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring	130.43	
33 05 84 00-0077 30" Diameter, Concrete Grade Extensions/Grade Rings (33 05 84 00-0066)		
33 05 84 00-0078 EA 4" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	111.61	
33 05 84 00-0079 EA 6" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	122.63	
33 05 84 00-0080 EA 8" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	133.65	
33 05 84 00-0081 EA 10" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring	144.66	
33 05 84 00-0082 Bentonite Collar (33 05 84 00-0001)		
33 05 84 00-0083 Bentonite Collar At Manhole Connections (33 05 84 00-0082)		
33 05 84 00-0084 EA Up To 12" Pipe, Bentonite Collar At Manhole Connection	174.49	
33 05 84 00-0085 EA >12" To 21", Bentonite Collar At Manhole Connection	276.64	
33 05 84 00-0086 EA >21" To 30" Pipe, Bentonite Collar At Manhole Connection	440.66	
33 05 84 00-0087 EA >30" To 36" Pipe, Bentonite Collar At Manhole Connection	1,032.64	
33 05 84 00-0088 EA >36" To 48" Pipe, Bentonite Collar At Manhole Connection	1,595.77	
33 05 84 00-0089 EA >48" To 60" Pipe, Bentonite Collar At Manhole Connection	2,893.33	
33 05 84 00-0090 Waste Water Collection System Taps (33 05 84) Note: For tapping existing structures only. Includes gROUT.		
33 05 84 00-0091 Brick Manhole Taps (33 05 84 00-0090)		
33 05 84 00-0092 EA 4" Tap In 6" Brick Manhole	521.27	
33 05 84 00-0093 EA 6" Tap In 6" Brick Manhole	581.49	
33 05 84 00-0094 EA 8" Tap In 6" Brick Manhole	640.64	
33 05 84 00-0095 EA 10" Tap In 6" Brick Manhole	699.68	
33 05 84 00-0096 EA 12" Tap In 6" Brick Manhole	773.50	
33 05 84 00-0097 EA 15" Tap In 6" Brick Manhole	832.41	
33 05 84 00-0098 Precast Concrete Manhole Tap (33 05 84 00-0090)		
33 05 84 00-0099 EA 4" Tap In Existing Precast Concrete Manhole	755.34	
33 05 84 00-0100 EA 6" Tap In Existing Precast Concrete Manhole	845.67	
33 05 84 00-0101 EA 8" Tap In Existing Precast Concrete Manhole	946.43	
33 05 84 00-0102 EA 10" Tap In Existing Precast Concrete Manhole	1,034.98	
33 05 84 00-0103 EA 12" Tap In Existing Precast Concrete Manhole	1,123.35	
33 05 84 00-0104 EA 15" Tap In Existing Precast Concrete Manhole	1,213.87	
33 05 84 00-0105 EA 18" Tap In Existing Precast Concrete Manhole	1,400.02	
33 05 84 00-0106 EA 24" Tap In Existing Precast Concrete Manhole	1,801.58	
33 05 97 Identification and Signage for Utilities (33 05)		
33 05 97 16 Markers for Utility Identification (33 05 97)		
33 05 97 16-0001 Reflective Sheeting Delineators (33 05 97 16)		
33 05 97 16-0002 EA Delineator, Single Unit One Way On Post, 3" Diameter or 3" x 3" Square	43.43	
33 05 97 16-0003 EA Delineator, Single Unit Back To Back On Post, 3" Diameter or 3" x 3" Square	46.24	
33 05 97 16-0004 EA Delineator, Single Unit Two Way On Post, 3" Diameter or 3" x 3" Square	51.86	
33 05 97 16-0005 EA Delineator, Single Unit Three Way On Post, 3" Diameter or 3" x 3" Square	54.67	
33 05 97 16-0006 EA Delineator, Single Unit Four Way On Post, 3" Diameter or 3" x 3" Square	57.48	
33 05 97 16-0007 EA Delineator, Double Unit On Post, 3" Diameter or 3" x 3" Square	49.75	
33 05 97 16-0008 EA Delineator, Single Unit Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square	44.13	
33 05 97 16-0009 EA Delineator, Double Unit Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square	46.94	
33 05 97 16-0010 EA Delineator, Single Unit, Back To Back, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square	46.94	

33 Utilities**33 05 Common Work Results for Utilities****33 05 97 Identification and Signage for Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 97 16-0011 EA Delineator, Single Unit, Two Way, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square	49.75	
33 05 97 16-0012 EA Delineator, Single Unit, Three Way, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square	52.56	
33 05 97 16-0013 EA Delineator, Single Unit, Four Way, Band Or Bracket Mounted, 3" Diameter or 3" x 3" Square	55.37	
33 05 97 16-0014 EA Delineator, White, Single Unit, One Way On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square	80.67	
33 05 97 16-0015 EA Delineator, Single Unit Three Way On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square	54.67	
33 05 97 16-0016 EA Delineator, White, Double Unit On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square	84.19	
33 05 97 16-0017 EA Delineator, Yellow, Single Unit, One Way On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square	80.67	
33 05 97 16-0018 EA Delineator, Yellow, Single Unit, Back To Back On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square	83.49	
33 05 97 16-0019 EA Delineator, Yellow, Double Unit, On 48" Ground Mounted (Driven) Flexible Post Or 30" Surface Mounted, 3" Diameter or 3" x 3" Square	84.19	
33 05 97 16-0020 EA Relocate Delineator	55.75	
33 05 97 16-0021 Reference Markers (33 05 97 16)		
33 05 97 16-0022 EA Reference Marker, 4' Mounting Height	94.00	
33 05 97 16-0023 EA Reference Marker, 7' Mounting Height	118.49	
33 05 97 16-0024 EA Reference Marker, Band Or Bracket Mounted	111.34	
33 05 97 16-0025 EA Reference Marker, Furnish Panel Only	105.10	
33 05 97 16-0026 EA Relocate Reference Marker	55.75	
33 05 97 16-0027 Object Markers (33 05 97 16)		
33 05 97 16-0028 EA Object Marker, Type L-1	89.05	
33 05 97 16-0029 EA Object Marker, Type L-2	81.81	
33 05 97 16-0030 EA Object Marker, Type K-1	94.84	
33 05 97 16-0031 EA Object Marker, Type K-2	87.60	
33 05 97 16-0032 EA Object Marker, Type Q	58.65	
33 10 Water Utilities (33)		
33 11 Groundwater Sources (33 10)		
33 11 13 Potable Water Supply Wells (33 11)		
33 11 13 00-0001 Drill And Test Water Well (33 11 13)		
33 11 13 00-0002 Drill Hole (33 11 13 00-0001)		
Note: Excludes loading and hauling of spoils.		
33 11 13 00-0003 Mobilization And Demobilization (33 11 13 00-0002)		
33 11 13 00-0004 EA Up To 12" Diameter, Well Drilling Mobilization And Demobilization	1,020.10	
33 11 13 00-0005 EA >12" To 24" Diameter, Well Drilling Mobilization And Demobilization	1,249.01	
33 11 13 00-0006 EA >24" To 36" Diameter, Well Drilling Mobilization And Demobilization	1,873.52	
33 11 13 00-0007 Drill Hole In Normal Soil, Sand, Gravel, O.B. (33 11 13 00-0002)		
Note: Excludes well casing, gravel or materials.		
33 11 13 00-0008 LF Up To 6" Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	24.20	
For >100 To 250, Add	0.61	
For >250 To 400, Add	1.21	
For >400 To 600, Add	1.82	
For >600 To 750, Add	2.42	
For >750, Add	3.03	
33 11 13 00-0009 LF 8" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	28.72	
For >100 To 250, Add	0.72	
For >250 To 400, Add	1.44	
For >400 To 600, Add	2.15	
For >600 To 750, Add	2.87	
For >750, Add	3.59	
33 11 13 00-0010 LF 10" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	38.41	
For >100 To 250, Add	0.96	
For >250 To 400, Add	1.92	
For >400 To 600, Add	2.88	
For >600 To 750, Add	3.84	
For >750, Add	4.80	
33 11 13 00-0011 LF 12" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	60.11	
For >100 To 250, Add	1.50	
For >250 To 400, Add	3.01	
For >400 To 600, Add	4.51	
For >600 To 750, Add	6.01	
For >750, Add	7.51	
33 11 13 00-0012 LF 14" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	86.50	
For >100 To 250, Add	2.16	
For >250 To 400, Add	4.33	
For >400 To 600, Add	6.49	
For >600 To 750, Add	8.65	
For >750, Add	10.81	



		Utilities	33	CS
		Water Utilities	33 10	
		Groundwater Sources	33 11	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
33 11 13 00-0013	LF	16" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	113.04	
		For >100 To 250, Add	2.83	
		For >250 To 400, Add	5.65	
		For >400 To 600, Add	8.48	
		For >600 To 750, Add	11.30	
		For >750, Add	14.13	
33 11 13 00-0014	LF	18" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	134.27	
		For >100 To 250, Add	3.36	
		For >250 To 400, Add	6.71	
		For >400 To 600, Add	10.07	
		For >600 To 750, Add	13.43	
		For >750, Add	16.78	
33 11 13 00-0015	LF	20" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	156.13	
		For >100 To 250, Add	3.90	
		For >250 To 400, Add	7.81	
		For >400 To 600, Add	11.71	
		For >600 To 750, Add	15.61	
		For >750, Add	19.52	
33 11 13 00-0016	LF	22" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	183.44	
		For >100 To 250, Add	4.59	
		For >250 To 400, Add	9.17	
		For >400 To 600, Add	13.76	
		For >600 To 750, Add	18.34	
		For >750, Add	22.93	
33 11 13 00-0017	LF	24" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	216.24	
		For >100 To 250, Add	5.41	
		For >250 To 400, Add	10.81	
		For >400 To 600, Add	16.22	
		For >600 To 750, Add	21.62	
		For >750, Add	27.03	
33 11 13 00-0018	LF	26" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	233.72	
		For >100 To 250, Add	5.84	
		For >250 To 400, Add	11.69	
		For >400 To 600, Add	17.53	
		For >600 To 750, Add	23.37	
		For >750, Add	29.22	
33 11 13 00-0019	LF	28" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	257.14	
		For >100 To 250, Add	6.43	
		For >250 To 400, Add	12.86	
		For >400 To 600, Add	19.29	
		For >600 To 750, Add	25.71	
		For >750, Add	32.14	
33 11 13 00-0020	LF	30" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	281.65	
		For >100 To 250, Add	7.04	
		For >250 To 400, Add	14.08	
		For >400 To 600, Add	21.12	
		For >600 To 750, Add	28.17	
		For >750, Add	35.21	
33 11 13 00-0021	LF	36" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.	350.35	
		For >100 To 250, Add	8.76	
		For >250 To 400, Add	17.52	
		For >400 To 600, Add	26.28	
		For >600 To 750, Add	35.04	
		For >750, Add	43.79	
33 11 13 00-0022 Drill Hole In Sedimentary Rock (33 11 13 00-0002)				
33 11 13 00-0023	LF	6" Water Well Hole Drilled In Sedimentary Rock	49.34	
		For >100 To 250, Add	1.23	
		For >250 To 400, Add	2.47	
		For >400 To 600, Add	3.70	
		For >600 To 750, Add	4.93	
		For >750, Add	6.17	
33 11 13 00-0024	LF	8" Water Well Hole Drilled In Sedimentary Rock	57.46	
		For >100 To 250, Add	1.44	
		For >250 To 400, Add	2.87	
		For >400 To 600, Add	4.31	
		For >600 To 750, Add	5.75	
		For >750, Add	7.18	
33 11 13 00-0025	LF	10" Water Well Hole Drilled In Sedimentary Rock	91.99	
		For >100 To 250, Add	2.30	
		For >250 To 400, Add	4.60	
		For >400 To 600, Add	6.90	
		For >600 To 750, Add	9.20	
		For >750, Add	11.50	
33 11 13 00-0026	LF	12" Water Well Hole Drilled In Sedimentary Rock	120.28	
		For >100 To 250, Add	3.01	
		For >250 To 400, Add	6.01	
		For >400 To 600, Add	9.02	
		For >600 To 750, Add	12.03	
		For >750, Add	15.04	

33 Utilities**33 10 Water Utilities****33 11 Groundwater Sources**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0027 LF 14" Water Well Hole Drilled In Sedimentary Rock	173.11	
For>100 To 250, Add	4.33	
For>250 To 400, Add	8.66	
For>400 To 600, Add	12.98	
For>600 To 750, Add	17.31	
For>750, Add	21.64	
33 11 13 00-0028 LF 16" Water Well Hole Drilled In Sedimentary Rock	225.94	
For>100 To 250, Add	5.65	
For>250 To 400, Add	11.30	
For>400 To 600, Add	16.95	
For>600 To 750, Add	22.59	
For>750, Add	28.24	
33 11 13 00-0029 LF 18" Water Well Hole Drilled In Sedimentary Rock	268.66	
For>100 To 250, Add	6.72	
For>250 To 400, Add	13.43	
For>400 To 600, Add	20.15	
For>600 To 750, Add	26.87	
For>750, Add	33.58	
33 11 13 00-0030 LF 20" Water Well Hole Drilled In Sedimentary Rock	311.76	
For>100 To 250, Add	7.79	
For>250 To 400, Add	15.59	
For>400 To 600, Add	23.38	
For>600 To 750, Add	31.18	
For>750, Add	38.97	
33 11 13 00-0031 LF 22" Water Well Hole Drilled In Sedimentary Rock	367.21	
For>100 To 250, Add	9.18	
For>250 To 400, Add	18.36	
For>400 To 600, Add	27.54	
For>600 To 750, Add	36.72	
For>750, Add	45.90	
33 11 13 00-0032 LF 24" Water Well Hole Drilled In Sedimentary Rock	424.17	
For>100 To 250, Add	10.60	
For>250 To 400, Add	21.21	
For>400 To 600, Add	31.81	
For>600 To 750, Add	42.42	
For>750, Add	53.02	
33 11 13 00-0033 LF 26" Water Well Hole Drilled In Sedimentary Rock	467.44	
For>100 To 250, Add	11.69	
For>250 To 400, Add	23.37	
For>400 To 600, Add	35.06	
For>600 To 750, Add	46.74	
For>750, Add	58.43	
33 11 13 00-0034 LF 28" Water Well Hole Drilled In Sedimentary Rock	514.28	
For>100 To 250, Add	12.86	
For>250 To 400, Add	25.71	
For>400 To 600, Add	38.57	
For>600 To 750, Add	51.43	
For>750, Add	64.29	
33 11 13 00-0035 LF 30" Water Well Hole Drilled In Sedimentary Rock	563.31	
For>100 To 250, Add	14.08	
For>250 To 400, Add	28.17	
For>400 To 600, Add	42.25	
For>600 To 750, Add	56.33	
For>750, Add	70.41	
33 11 13 00-0036 LF 36" Water Well Hole Drilled In Sedimentary Rock	700.69	
For>100 To 250, Add	17.52	
For>250 To 400, Add	35.03	
For>400 To 600, Add	52.55	
For>600 To 750, Add	70.07	
For>750, Add	87.59	
33 11 13 00-0037 Drill Hole In Crystalline Rock (33 11 13 00-0002)		
33 11 13 00-0038 LF 6" Water Well Hole Drilled In Crystalline Rock	101.48	
For>100 To 250, Add	2.54	
For>250 To 400, Add	5.07	
For>400 To 600, Add	7.61	
For>600 To 750, Add	10.15	
For>750, Add	12.69	
33 11 13 00-0039 LF 8" Water Well Hole Drilled In Crystalline Rock	117.09	
For>100 To 250, Add	2.93	
For>250 To 400, Add	5.85	
For>400 To 600, Add	8.78	
For>600 To 750, Add	11.71	
For>750, Add	14.64	
33 11 13 00-0040 LF 10" Water Well Hole Drilled In Crystalline Rock	134.27	
For>100 To 250, Add	3.36	
For>250 To 400, Add	6.71	
For>400 To 600, Add	10.07	
For>600 To 750, Add	13.43	
For>750, Add	16.78	



		Utilities	33	CS
		Water Utilities	33 10	
		Groundwater Sources	33 11	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0041	LF	12" Water Well Hole Drilled In Crystalline Rock.....	170.17	
		For >100 To 250, Add	4.25	
		For >250 To 400, Add	8.51	
		For >400 To 600, Add	12.76	
		For >600 To 750, Add	17.02	
		For >750, Add	21.27	
33 11 13 00-0042	LF	14" Water Well Hole Drilled In Crystalline Rock.....	220.14	
		For >100 To 250, Add	5.50	
		For >250 To 400, Add	11.01	
		For >400 To 600, Add	16.51	
		For >600 To 750, Add	22.01	
		For >750, Add	27.52	
33 11 13 00-0043	LF	16" Water Well Hole Drilled In Crystalline Rock.....	320.06	
		For >100 To 250, Add	8.00	
		For >250 To 400, Add	16.00	
		For >400 To 600, Add	24.00	
		For >600 To 750, Add	32.01	
		For >750, Add	40.01	
33 11 13 00-0044	LF	18" Water Well Hole Drilled In Crystalline Rock.....	380.95	
		For >100 To 250, Add	9.52	
		For >250 To 400, Add	19.05	
		For >400 To 600, Add	28.57	
		For >600 To 750, Add	38.10	
		For >750, Add	47.62	
33 11 13 00-0045	LF	20" Water Well Hole Drilled In Crystalline Rock.....	441.84	
		For >100 To 250, Add	11.05	
		For >250 To 400, Add	22.09	
		For >400 To 600, Add	33.14	
		For >600 To 750, Add	44.18	
		For >750, Add	55.23	
33 11 13 00-0046	LF	22" Water Well Hole Drilled In Crystalline Rock.....	519.90	
		For >100 To 250, Add	13.00	
		For >250 To 400, Add	26.00	
		For >400 To 600, Add	38.99	
		For >600 To 750, Add	51.99	
		For >750, Add	64.99	
33 11 13 00-0047	LF	24" Water Well Hole Drilled In Crystalline Rock.....	601.09	
		For >100 To 250, Add	15.03	
		For >250 To 400, Add	30.05	
		For >400 To 600, Add	45.08	
		For >600 To 750, Add	60.11	
		For >750, Add	75.14	
33 11 13 00-0048		Furnish And Install Casing (33 11 13 00-0001)		
		Note: Excludes drilling of hole.		
33 11 13 00-0049		Steel Well Casing (33 11 13 00-0048)		
33 11 13 00-0050	LF	6" Diameter, Steel Well Casing, Flush	45.90	
		For >100 To 250, Deduct	-1.36	
		For >250 To 400, Deduct	-2.51	
		For >400 To 600, Deduct	-3.76	
		For >600 To 750, Deduct	-5.02	
		For >750, Deduct	-6.55	
33 11 13 00-0051	LF	8" Diameter, Steel Well Casing, Flush	57.05	
		For >100 To 250, Deduct	-1.69	
		For >250 To 400, Deduct	-3.12	
		For >400 To 600, Deduct	-4.68	
		For >600 To 750, Deduct	-6.24	
		For >750, Deduct	-8.15	
33 11 13 00-0052	LF	10" Diameter, Steel Well Casing, Flush	84.79	
		For >100 To 250, Deduct	-2.44	
		For >250 To 400, Deduct	-4.56	
		For >400 To 600, Deduct	-6.84	
		For >600 To 750, Deduct	-9.12	
		For >750, Deduct	-11.82	
33 11 13 00-0053	LF	12" Diameter, Steel Well Casing, Flush	142.88	
		For >100 To 250, Deduct	-3.96	
		For >250 To 400, Deduct	-7.53	
		For >400 To 600, Deduct	-11.29	
		For >600 To 750, Deduct	-15.06	
		For >750, Deduct	-19.33	
33 11 13 00-0054	LF	14" Diameter, Steel Well Casing, Flush	159.84	
		For >100 To 250, Deduct	-4.53	
		For >250 To 400, Deduct	-8.53	
		For >400 To 600, Deduct	-12.79	
		For >600 To 750, Deduct	-17.06	
		For >750, Deduct	-22.02	
33 11 13 00-0055	LF	16" Diameter, Steel Well Casing, Flush	187.51	
		For >100 To 250, Deduct	-5.35	
		For >250 To 400, Deduct	-10.04	
		For >400 To 600, Deduct	-15.06	
		For >600 To 750, Deduct	-20.08	
		For >750, Deduct	-25.96	

33 Utilities**33 10 Water Utilities****33 11 Groundwater Sources**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0056	LF		18" Diameter, Steel Well Casing, Flush.....	213.64	
			For >100 To 250, Deduct	-6.18	
			For >250 To 400, Deduct	-11.52	
			For >400 To 600, Deduct	-17.28	
			For >600 To 750, Deduct	-23.04	
			For >750, Deduct	-29.88	
33 11 13 00-0057	LF		20" Diameter, Steel Well Casing, Flush.....	243.27	
			For >100 To 250, Deduct	-7.11	
			For >250 To 400, Deduct	-13.19	
			For >400 To 600, Deduct	-19.79	
			For >600 To 750, Deduct	-26.38	
			For >750, Deduct	-34.32	
33 11 13 00-0058	LF		24" Diameter, Steel Well Casing, Flush.....	284.50	
			For >100 To 250, Deduct	-8.27	
			For >250 To 400, Deduct	-15.38	
			For >400 To 600, Deduct	-23.07	
			For >600 To 750, Deduct	-30.76	
			For >750, Deduct	-39.96	
33 11 13 00-0059	LB		Steel Well Casing, Furnish And Install.....	1.46	
			For >100 To 250, Deduct	-0.05	
			For >250 To 400, Deduct	-0.09	
			For >400 To 600, Deduct	-0.13	
			For >600 To 750, Deduct	-0.18	
			For >750, Deduct	-0.24	
33 11 13 00-0060 Stainless Steel Well Casing, Flush Threaded (33 11 13 00-0048)					
33 11 13 00-0061	LF		6" Diameter, Stainless Steel Well Casing, Flush.....	102.01	
			For >100 To 250, Deduct	-2.76	
			For >250 To 400, Deduct	-5.31	
			For >400 To 600, Deduct	-7.97	
			For >600 To 750, Deduct	-10.63	
			For >750, Deduct	-13.57	
33 11 13 00-0062	LF		8" Diameter, Stainless Steel Well Casing, Flush.....	153.77	
			For >100 To 250, Deduct	-4.11	
			For >250 To 400, Deduct	-7.96	
			For >400 To 600, Deduct	-11.93	
			For >600 To 750, Deduct	-15.91	
			For >750, Deduct	-20.24	
33 11 13 00-0063	LF		10" Diameter, Stainless Steel Well Casing, Flush.....	215.18	
			For >100 To 250, Deduct	-5.72	
			For >250 To 400, Deduct	-11.10	
			For >400 To 600, Deduct	-16.65	
			For >600 To 750, Deduct	-22.20	
			For >750, Deduct	-28.20	
33 11 13 00-0064	LF		12" Diameter, Stainless Steel Well Casing, Flush.....	250.15	
			For >100 To 250, Deduct	-6.66	
			For >250 To 400, Deduct	-12.91	
			For >400 To 600, Deduct	-19.37	
			For >600 To 750, Deduct	-25.83	
			For >750, Deduct	-32.82	
33 11 13 00-0065 Stainless Steel Well Casing, Welded Ring (33 11 13 00-0048)					
33 11 13 00-0066	LF		10" Diameter, Stainless Steel Well Casing, Welded	225.47	
			For >100 To 250, Deduct	-6.24	
			For >250 To 400, Deduct	-11.87	
			For >400 To 600, Deduct	-17.81	
			For >600 To 750, Deduct	-23.75	
			For >750, Deduct	-30.46	
33 11 13 00-0067	LF		12" Diameter, Stainless Steel Well Casing, Welded	261.30	
			For >100 To 250, Deduct	-7.22	
			For >250 To 400, Deduct	-13.75	
			For >400 To 600, Deduct	-20.63	
			For >600 To 750, Deduct	-27.50	
			For >750, Deduct	-35.27	
33 11 13 00-0068	LF		14" Diameter, Stainless Steel Well Casing, Welded	314.59	
			For >100 To 250, Deduct	-8.64	
			For >250 To 400, Deduct	-16.50	
			For >400 To 600, Deduct	-24.75	
			For >600 To 750, Deduct	-33.00	
			For >750, Deduct	-42.26	
33 11 13 00-0069	LF		16" Diameter, Stainless Steel Well Casing, Welded	360.28	
			For >100 To 250, Deduct	-9.89	
			For >250 To 400, Deduct	-18.89	
			For >400 To 600, Deduct	-28.34	
			For >600 To 750, Deduct	-37.79	
			For >750, Deduct	-48.37	
33 11 13 00-0070	LF		18" Diameter, Stainless Steel Well Casing, Welded	397.42	
			For >100 To 250, Deduct	-10.94	
			For >250 To 400, Deduct	-20.88	
			For >400 To 600, Deduct	-31.32	
			For >600 To 750, Deduct	-41.76	
			For >750, Deduct	-53.51	



		Utilities	33	CS
		Water Utilities	33 10	
		Groundwater Sources	33 11	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0071	LF	20" Diameter, Stainless Steel Well Casing, Welded	522.08	
		For >100 To 250, Deduct	-14.25	
		For >250 To 400, Deduct	-27.30	
		For >400 To 600, Deduct	-40.96	
		For >600 To 750, Deduct	-54.61	
		For >750, Deduct	-69.82	
33 11 13 00-0072	LF	24" Diameter, Stainless Steel Well Casing, Welded	688.74	
		For >100 To 250, Deduct	-18.72	
		For >250 To 400, Deduct	-35.94	
		For >400 To 600, Deduct	-53.91	
		For >600 To 750, Deduct	-71.87	
		For >750, Deduct	-91.79	
33 11 13 00-0073 Polyvinyl Chloride (PVC) Well Casing, Schedule 80 (33 11 13 00-0048)				
33 11 13 00-0074	LF	6" Polyvinyl Chloride (PVC) Well Casing	57.50	
		For >100 To 250, Deduct	-1.61	
		For >250 To 400, Deduct	-3.05	
		For >400 To 600, Deduct	-4.57	
		For >600 To 750, Deduct	-6.09	
		For >750, Deduct	-7.84	
33 11 13 00-0075	LF	8" Polyvinyl Chloride (PVC) Well Casing	91.37	
		For >100 To 250, Deduct	-2.55	
		For >250 To 400, Deduct	-4.84	
		For >400 To 600, Deduct	-7.25	
		For >600 To 750, Deduct	-9.67	
		For >750, Deduct	-12.44	
33 11 13 00-0076	LF	10" Polyvinyl Chloride (PVC) Well Casing	138.06	
		For >100 To 250, Deduct	-3.86	
		For >250 To 400, Deduct	-7.31	
		For >400 To 600, Deduct	-10.97	
		For >600 To 750, Deduct	-14.62	
		For >750, Deduct	-18.80	
33 11 13 00-0077	LF	12" Polyvinyl Chloride (PVC) Well Casing	162.75	
		For >100 To 250, Deduct	-4.56	
		For >250 To 400, Deduct	-8.63	
		For >400 To 600, Deduct	-12.95	
		For >600 To 750, Deduct	-17.26	
		For >750, Deduct	-22.22	
33 11 13 00-0078 Furnish And Install Well Screen Assembly (33 11 13 00-0001)				
33 11 13 00-0079 Stainless Steel Well Screen (33 11 13 00-0078)				
33 11 13 00-0080	LF	2" Stainless Steel Well Screen	29.94	1.72
		For >100 To 250, Deduct	-0.97	
		For >250 To 400, Deduct	-1.72	
		For >400 To 600, Deduct	-2.58	
		For >600 To 750, Deduct	-3.43	
		For >750, Deduct	-4.58	
33 11 13 00-0081	LF	3" Stainless Steel Well Screen	48.85	1.72
		For >100 To 250, Deduct	-1.46	
		For >250 To 400, Deduct	-2.68	
		For >400 To 600, Deduct	-4.02	
		For >600 To 750, Deduct	-5.36	
		For >750, Deduct	-7.01	
33 11 13 00-0082	LF	4" Stainless Steel Well Screen	61.34	2.57
		For >100 To 250, Deduct	-1.83	
		For >250 To 400, Deduct	-3.37	
		For >400 To 600, Deduct	-5.05	
		For >600 To 750, Deduct	-6.73	
		For >750, Deduct	-8.81	
33 11 13 00-0083	LF	5" Stainless Steel Well Screen	77.83	2.57
		For >100 To 250, Deduct	-2.30	
		For >250 To 400, Deduct	-4.25	
		For >400 To 600, Deduct	-6.37	
		For >600 To 750, Deduct	-8.50	
		For >750, Deduct	-11.09	
33 11 13 00-0084	LF	6" Stainless Steel Well Screen	92.76	3.43
		For >100 To 250, Deduct	-2.80	
		For >250 To 400, Deduct	-5.11	
		For >400 To 600, Deduct	-7.67	
		For >600 To 750, Deduct	-10.23	
		For >750, Deduct	-13.40	
33 11 13 00-0085	LF	8" Stainless Steel Well Screen	121.22	4.29
		For >100 To 250, Deduct	-3.64	
		For >250 To 400, Deduct	-6.67	
		For >400 To 600, Deduct	-10.01	
		For >600 To 750, Deduct	-13.34	
		For >750, Deduct	-17.47	
33 11 13 00-0086	LF	10" Stainless Steel Well Screen	153.24	6.86
		For >100 To 250, Deduct	-4.65	
		For >250 To 400, Deduct	-8.48	
		For >400 To 600, Deduct	-12.73	
		For >600 To 750, Deduct	-16.97	
		For >750, Deduct	-22.28	

33 Utilities**33 10 Water Utilities****33 11 Groundwater Sources**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0087	LF		12" Stainless Steel Well Screen.....	179.83	8.57
			For >100 To 250, Deduct	-5.46	
			For >250 To 400, Deduct	-9.95	
			For >400 To 600, Deduct	-14.93	
			For >600 To 750, Deduct	-19.90	
			For >750, Deduct	-26.13	
33 11 13 00-0088	LF		14" Stainless Steel Well Screen.....	196.80	9.43
			For >100 To 250, Deduct	-6.03	
			For >250 To 400, Deduct	-10.95	
			For >400 To 600, Deduct	-16.42	
			For >600 To 750, Deduct	-21.89	
			For >750, Deduct	-28.80	
33 11 13 00-0089	LF		16" Stainless Steel Well Screen.....	212.47	11.14
			For >100 To 250, Deduct	-6.55	
			For >250 To 400, Deduct	-11.87	
			For >400 To 600, Deduct	-17.80	
			For >600 To 750, Deduct	-23.73	
			For >750, Deduct	-31.28	
33 11 13 00-0090	LF		18" Stainless Steel Well Screen.....	254.55	12.86
			For >100 To 250, Deduct	-7.89	
			For >250 To 400, Deduct	-14.26	
			For >400 To 600, Deduct	-21.39	
			For >600 To 750, Deduct	-28.52	
			For >750, Deduct	-37.64	
33 11 13 00-0091	LF		20" Stainless Steel Well Screen.....	321.14	16.28
			For >100 To 250, Deduct	-9.95	
			For >250 To 400, Deduct	-17.98	
			For >400 To 600, Deduct	-26.97	
			For >600 To 750, Deduct	-35.96	
			For >750, Deduct	-47.45	
33 11 13 00-0092	LF		24" Stainless Steel Well Screen.....	416.27	21.43
			For >100 To 250, Deduct	-12.93	
			For >250 To 400, Deduct	-23.33	
			For >400 To 600, Deduct	-35.00	
			For >600 To 750, Deduct	-46.67	
			For >750, Deduct	-61.61	
33 11 13 00-0093	LF		26" Stainless Steel Well Screen.....	480.61	24.86
			For >100 To 250, Deduct	-14.87	
			For >250 To 400, Deduct	-26.89	
			For >400 To 600, Deduct	-40.33	
			For >600 To 750, Deduct	-53.78	
			For >750, Deduct	-70.93	
33 11 13 00-0094			Slotted Polyvinyl Chloride (PVC) Well Screen, Schedule 40 (33 11 13 00-0078)		
33 11 13 00-0095	LF		1-1/4" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	16.61	
			For >100 To 250, Deduct	-0.58	
			For >250 To 400, Deduct	-0.99	
			For >400 To 600, Deduct	-1.49	
			For >600 To 750, Deduct	-1.99	
			For >750, Deduct	-2.70	
			For Schedule 80, Add	4.03	
33 11 13 00-0096	LF		1-1/2" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	19.06	
			For >100 To 250, Deduct	-0.65	
			For >250 To 400, Deduct	-1.13	
			For >400 To 600, Deduct	-1.69	
			For >600 To 750, Deduct	-2.25	
			For >750, Deduct	-3.04	
			For Schedule 80, Add	4.84	
33 11 13 00-0097	LF		2" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	26.57	
			For >100 To 250, Deduct	-0.98	
			For >250 To 400, Deduct	-1.64	
			For >400 To 600, Deduct	-2.46	
			For >600 To 750, Deduct	-3.28	
			For >750, Deduct	-4.50	
			For Schedule 80, Add	5.64	
33 11 13 00-0098	LF		3" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	39.64	
			For >100 To 250, Deduct	-1.33	
			For >250 To 400, Deduct	-2.32	
			For >400 To 600, Deduct	-3.48	
			For >600 To 750, Deduct	-4.64	
			For >750, Deduct	-6.23	
			For Schedule 80, Add	10.48	
33 11 13 00-0099	LF		4" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen	49.85	
			For >100 To 250, Deduct	-1.67	
			For >250 To 400, Deduct	-2.92	
			For >400 To 600, Deduct	-4.38	
			For >600 To 750, Deduct	-5.84	
			For >750, Deduct	-7.85	
			For Schedule 80, Add	13.14	



		Utilities	33	CS
		Water Utilities	33 10	
		Groundwater Sources	33 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0100 LF 5" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen 62.56 For >100 To 250, Deduct -2.07 For >250 To 400, Deduct -3.63 For >400 To 600, Deduct -5.45 For >600 To 750, Deduct -7.27 For >750, Deduct -9.74 For Schedule 80, Add 16.93		
33 11 13 00-0101 LF 6" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen 68.31 For >100 To 250, Deduct -2.38 For >250 To 400, Deduct -4.09 For >400 To 600, Deduct -6.14 For >600 To 750, Deduct -8.18 For >750, Deduct -11.10 For Schedule 80, Add 16.53		
33 11 13 00-0102 LF 8" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen 99.01 For >100 To 250, Deduct -3.34 For >250 To 400, Deduct -5.81 For >400 To 600, Deduct -8.72 For >600 To 750, Deduct -11.63 For >750, Deduct -15.66 For Schedule 80, Add 25.80		
33 11 13 00-0103 Furnish And Install Gravel Pack Material (33 11 13 00-0001) Note: Quantity is based on 3" space between wall and the casing or well screen.		
33 11 13 00-0104 Artificial Gravel Pack (33 11 13 00-0103) Note: Excludes casing.		
33 11 13 00-0105 LF Artificial Gravel Pack, 6" Casing, 2" Screen.....16.46 For >100 To 250, Deduct -0.66 For >250 To 400, Deduct -1.07 For >400 To 600, Deduct -1.60 For >600 To 750, Deduct -2.14 For >750, Deduct -2.99		
33 11 13 00-0106 LF Artificial Gravel Pack, 8" Casing, 2" Screen.....24.47 For >100 To 250, Deduct -1.00 For >250 To 400, Deduct -1.61 For >400 To 600, Deduct -2.42 For >600 To 750, Deduct -3.22 For >750, Deduct -4.53		
33 11 13 00-0107 LF Artificial Gravel Pack, 10" Casing, 2" Screen.....34.38 For >100 To 250, Deduct -1.44 For >250 To 400, Deduct -2.29 For >400 To 600, Deduct -3.44 For >600 To 750, Deduct -4.59 For >750, Deduct -6.49		
33 11 13 00-0108 LF Artificial Gravel Pack, 12" Casing, 2" Screen.....43.88 For >100 To 250, Deduct -1.81 For >250 To 400, Deduct -2.91 For >400 To 600, Deduct -4.36 For >600 To 750, Deduct -5.82 For >750, Deduct -8.20		
33 11 13 00-0109 LF Artificial Gravel Pack, 14" Casing, 2" Screen.....53.91 For >100 To 250, Deduct -2.20 For >250 To 400, Deduct -3.55 For >400 To 600, Deduct -5.33 For >600 To 750, Deduct -7.10 For >750, Deduct -9.99		
33 11 13 00-0110 LF Artificial Gravel Pack, 16" Casing, 2" Screen.....69.38 For >100 To 250, Deduct -2.79 For >250 To 400, Deduct -4.52 For >400 To 600, Deduct -6.78 For >600 To 750, Deduct -9.05 For >750, Deduct -12.68		
33 11 13 00-0111 LF Artificial Gravel Pack, 18" Casing, 2" Screen.....79.42 For >100 To 250, Deduct -3.18 For >250 To 400, Deduct -5.16 For >400 To 600, Deduct -7.74 For >600 To 750, Deduct -10.32 For >750, Deduct -14.45		
33 11 13 00-0112 LF Artificial Gravel Pack, 20" Casing, 2" Screen.....94.65 For >100 To 250, Deduct -3.82 For >250 To 400, Deduct -6.19 For >400 To 600, Deduct -9.28 For >600 To 750, Deduct -12.37 For >750, Deduct -17.36		
33 11 13 00-0113 LF Artificial Gravel Pack, 24" Casing, 2" Screen.....107.26 For >100 To 250, Deduct -4.35 For >250 To 400, Deduct -7.03 For >400 To 600, Deduct -10.55 For >600 To 750, Deduct -14.06 For >750, Deduct -19.75		

33 Utilities**33 10 Water Utilities****33 11 Groundwater Sources**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0114 LF Artificial Gravel Pack, 26" Casing, 2" Screen.....	115.14	
For >100 To 250, Deduct	-4.62	
For >250 To 400, Deduct	-7.50	
For >400 To 600, Deduct	-11.25	
For >600 To 750, Deduct	-15.00	
For >750, Deduct	-21.02	
33 11 13 00-0115 LF Artificial Gravel Pack, 30" Casing, 2" Screen.....	137.80	
For >100 To 250, Deduct	-5.59	
For >250 To 400, Deduct	-9.03	
For >400 To 600, Deduct	-13.55	
For >600 To 750, Deduct	-18.07	
For >750, Deduct	-25.37	
33 11 13 00-0116 LF Artificial Gravel Pack, 36" Casing, 2" Screen.....	160.47	
For >100 To 250, Deduct	-6.63	
For >250 To 400, Deduct	-10.64	
For >400 To 600, Deduct	-15.96	
For >600 To 750, Deduct	-21.28	
For >750, Deduct	-30.00	
33 11 13 00-0117 Develop Well (33 11 13 00-0001)		
Note: Pump out drilled well to remove debris and fine material remaining from the drilling process. Excludes disposal.		
33 11 13 00-0118 HR Develop Well.....	431.27	
33 11 13 00-0119 Pump Test (33 11 13 00-0001)		
Note: To determine water level and GPM flow rate.		
33 11 13 00-0120 HR Pump Test Well	381.74	
33 11 13 00-0121 Test Well (33 11 13 00-0001)		
33 11 13 00-0122 VLF 2-1/2" Diameter Test Well.....	101.91	
33 11 13 00-0123 Surface Seal, Concrete Filled (33 11 13)		
33 11 13 00-0124 SF Surface Seal Well, Concrete Filled	36.32	
33 11 13 00-0125 Other Water Well (33 11 13)		
33 11 13 00-0126 SF Patch Hole In Well Casing	92.95	
33 11 13 00-0127 SF 1/2" Pressure Grout Well	2.85	
33 11 13 00-0128 SF 1" Pressure Grout Well	4.74	
33 11 13 00-0129 CF Sediment Removal In Well Casing For Existing Well.....	5.36	
33 11 13 00-0130 Sterilization Of Well (33 11 13)		
33 11 13 00-0131 EA Well Sterilization, Chlorine.....	1,543.71	
33 14 Water Utility Transmission and Distribution (33 10)		
33 14 11 Water Utility Transmission Piping (33 14)		
See CSI section 33 14 13 00-0000 for water utility transmission piping.		
33 14 13 Public Water Utility Distribution Piping (33 14)		
Note: Piping includes hydrostatic testing, disinfecting and warning tape. Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.		
33 14 13 13 Ductile Iron Public Water Utility Distribution Piping (33 14 13)		
33 14 13 13-0001 Ductile Iron Piping (33 14 13 13)		
33 14 13 13-0002 Mechanical Joint Ductile Iron Piping (33 14 13 13-0001)		
Note: Cement lining and bituminous coating shall conform to ANSI A21.4. Fittings are C153. See CSI section 33 14 13 13-0500 for bolts and gaskets.		
33 14 13 13-0003 Mechanical Joint Ductile Iron Pipe (33 14 13 13-0002)		
Note: Conforming to ANSI/AWWA C151/A21.51, federal specification WW-P-421D.		
33 14 13 13-0004 LF 3", Class 51, Mechanical Joint Ductile Iron Pipe.....	42.91	13.37
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	15.88	
For Cement Mortar Lining (CML), Add	2.27	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	12.25	
For Fusion Bonded Epoxy Lining (206N), Add	4.08	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.70	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-2.15	
For Class 52, Add	7.20	
For Class 53, Add	12.92	
For Class 54, Add	18.40	
For Class 55, Add	21.20	
For Class 56, Add	23.95	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0005 LF 4", Class 50, Mechanical Joint Ductile Iron Pipe.....	46.48	14.22
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	17.45	
For Cement Mortar Lining (CML), Add	2.49	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	13.46	
For Fusion Bonded Epoxy Lining (206N), Add	4.49	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.87	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-2.32	
For Class 51, Add	3.67	
For Class 52, Add	7.90	
For Class 53, Add	14.17	
For Class 54, Add	20.18	
For Class 55, Add	23.25	
For Class 56, Add	26.26	
33 14 13 13-0006 LF 6", Class 50, Mechanical Joint Ductile Iron Pipe.....	49.63	14.93
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	18.94	
For Cement Mortar Lining (CML), Add	2.71	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	14.61	
For Fusion Bonded Epoxy Lining (206N), Add	4.87	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.03	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-2.48	
For Class 51, Add	3.97	
For Class 52, Add	8.55	
For Class 53, Add	15.35	
For Class 54, Add	21.87	
For Class 55, Add	25.18	
For Class 56, Add	28.44	
33 14 13 13-0007 LF 8", Class 50, Mechanical Joint Ductile Iron Pipe.....	58.12	15.52
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	24.23	
For Cement Mortar Lining (CML), Add	3.46	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	18.69	
For Fusion Bonded Epoxy Lining (206N), Add	6.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.60	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-2.91	
For Class 51, Add	5.01	
For Class 52, Add	10.80	
For Class 53, Add	19.43	
For Class 54, Add	27.70	
For Class 55, Add	31.87	
For Class 56, Add	35.98	
33 14 13 13-0008 LF 10", Class 50, Mechanical Joint Ductile Iron Pipe.....	78.92	22.36
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	27.02	
For Cement Mortar Lining (CML), Add	4.50	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	22.52	
For Fusion Bonded Epoxy Lining (206N), Add	8.11	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.38	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-3.95	
For Class 51, Add	6.56	
For Class 52, Add	14.14	
For Class 53, Add	25.40	
For Class 54, Add	36.21	
For Class 55, Add	41.68	
For Class 56, Add	47.05	
33 14 13 13-0009 LF 12", Class 50, Mechanical Joint Ductile Iron Pipe.....	95.17	24.85
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	28.76	
For Cement Mortar Lining (CML), Add	5.75	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	23.00	
For Fusion Bonded Epoxy Lining (206N), Add	10.35	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.31	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-4.76	
For Class 51, Add	8.31	
For Class 52, Add	17.91	
For Class 53, Add	32.23	
For Class 54, Add	45.96	
For Class 55, Add	52.88	
For Class 56, Add	59.67	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0010 LF 14", Class 50, Mechanical Joint Ductile Iron Pipe.....	113.68	27.91
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	31.38	
For Cement Mortar Lining (CML), Add	7.13	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	24.25	
For Fusion Bonded Epoxy Lining (206N), Add	12.84	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.35	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-5.68	
For Class 51, Add	10.25	
For Class 52, Add	22.11	
For Class 53, Add	39.81	
For Class 54, Add	56.78	
For Class 55, Add	65.30	
For Class 56, Add	73.68	
33 14 13 13-0011 LF 16", Class 50, Mechanical Joint Ductile Iron Pipe.....	128.37	31.98
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	32.78	
For Cement Mortar Lining (CML), Add	8.00	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	24.79	
For Fusion Bonded Epoxy Lining (206N), Add	14.39	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.00	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-6.42	
For Class 51, Add	11.50	
For Class 52, Add	24.81	
For Class 53, Add	44.67	
For Class 54, Add	63.70	
For Class 55, Add	73.27	
For Class 56, Add	82.67	
33 14 13 13-0012 LF 18", Class 50, Mechanical Joint Ductile Iron Pipe.....	159.03	37.28
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	42.04	
For Cement Mortar Lining (CML), Add	10.25	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	31.79	
For Fusion Bonded Epoxy Lining (206N), Add	18.46	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.69	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-7.95	
For Class 51, Add	14.68	
For Class 52, Add	31.67	
For Class 53, Add	57.07	
For Class 54, Add	81.41	
For Class 55, Add	93.61	
For Class 56, Add	105.60	
33 14 13 13-0013 LF 20", Class 50, Mechanical Joint Ductile Iron Pipe.....	180.70	44.74
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	42.91	
For Cement Mortar Lining (CML), Add	11.29	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	31.62	
For Fusion Bonded Epoxy Lining (206N), Add	20.33	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.47	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-9.04	
For Class 51, Add	16.24	
For Class 52, Add	35.02	
For Class 53, Add	63.06	
For Class 54, Add	89.93	
For Class 55, Add	103.44	
For Class 56, Add	116.70	
33 14 13 13-0014 LF 24", Class 50, Mechanical Joint Ductile Iron Pipe.....	236.28	55.92
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	46.98	
For Cement Mortar Lining (CML), Add	15.16	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	31.83	
For Fusion Bonded Epoxy Lining (206N), Add	27.28	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.37	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-11.81	
For Class 51, Add	21.72	
For Class 52, Add	46.84	
For Class 53, Add	84.40	
For Class 54, Add	120.39	
For Class 55, Add	138.44	
For Class 56, Add	156.17	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0015 LF 30", Class 50, Mechanical Joint Ductile Iron Pipe.....	304.09	60.21
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	66.25	
For Cement Mortar Lining (CML), Add	21.37	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	38.47	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.03	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-15.20	
For Class 51, Add	30.26	
For Class 52, Add	65.33	
For Class 53, Add	117.92	
For Class 54, Add	168.31	
For Class 55, Add	193.40	
For Class 56, Add	218.04	
33 14 13 13-0016 LF 36", Class 50, Mechanical Joint Ductile Iron Pipe.....	363.27	63.94
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	82.84	
For Cement Mortar Lining (CML), Add	26.72	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	48.10	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	20.04	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-18.16	
For Class 51, Add	37.63	
For Class 52, Add	81.26	
For Class 53, Add	146.82	
For Class 54, Add	209.61	
For Class 55, Add	240.77	
For Class 56, Add	271.37	
33 14 13 13-0017 LF 42", Class 50, Mechanical Joint Ductile Iron Pipe.....	445.94	67.67
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	106.72	
For Cement Mortar Lining (CML), Add	34.43	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	61.97	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	25.82	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-22.30	
For Class 51, Add	48.19	
For Class 52, Add	104.13	
For Class 53, Add	188.30	
For Class 54, Add	268.92	
For Class 55, Add	308.79	
For Class 56, Add	347.93	
33 14 13 13-0018 LF 48", Class 50, Mechanical Joint Ductile Iron Pipe.....	546.12	71.51
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	136.03	
For Cement Mortar Lining (CML), Add	43.88	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	78.98	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	32.91	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-27.31	
For Class 51, Add	61.15	
For Class 52, Add	132.17	
For Class 53, Add	239.18	
For Class 54, Add	341.66	
For Class 55, Add	392.19	
For Class 56, Add	441.80	
33 14 13 13-0019 Mechanical Joint Ductile Iron 90 Degree Elbow (33 14 13 13-0002)		
33 14 13 13-0020 EA 3" Mechanical Joint Ductile Iron 90 Degree Elbow	173.21	42.20
For Cement Mortar Lining (CML), Add	10.93	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	19.67	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.19	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0021 EA 4" Mechanical Joint Ductile Iron 90 Degree Elbow	195.30	50.43
For Cement Mortar Lining (CML), Add	11.89	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	21.40	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.92	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0022 EA 6" Mechanical Joint Ductile Iron 90 Degree Elbow	307.25	74.54
For Cement Mortar Lining (CML), Add	19.44	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	34.99	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.58	
Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0023 EA 8" Mechanical Joint Ductile Iron 90 Degree Elbow	416.75	88.41
For Cement Mortar Lining (CML), Add	28.28	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	50.90	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	21.21	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0024 EA 10" Mechanical Joint Ductile Iron 90 Degree Elbow	600.09	99.19
For Cement Mortar Lining (CML), Add	44.98	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	80.97	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	33.74	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0025 EA 12" Mechanical Joint Ductile Iron 90 Degree Elbow	781.89	116.36
For Cement Mortar Lining (CML), Add	60.57	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	109.02	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	45.43	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0026 EA 14" Mechanical Joint Ductile Iron 90 Degree Elbow	1,211.42	130.48
For Cement Mortar Lining (CML), Add	101.37	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	182.47	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	76.03	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0027 EA 16" Mechanical Joint Ductile Iron 90 Degree Elbow	1,602.76	149.12
For Cement Mortar Lining (CML), Add	137.68	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	247.83	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	103.26	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0028 EA 18" Mechanical Joint Ductile Iron 90 Degree Elbow	1,974.24	208.76
For Cement Mortar Lining (CML), Add	165.80	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	298.43	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	124.35	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0029 EA 20" Mechanical Joint Ductile Iron 90 Degree Elbow	2,707.21	260.96
For Cement Mortar Lining (CML), Add	231.18	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	416.13	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	173.39	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0030 EA 24" Mechanical Joint Ductile Iron 90 Degree Elbow	3,977.47	347.49
For Cement Mortar Lining (CML), Add	345.09	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	621.16	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	258.82	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0031 EA 30" Mechanical Joint Ductile Iron 90 Degree Elbow	6,102.66	372.80
For Cement Mortar Lining (CML), Add	553.78	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	996.81	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	415.34	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0032 EA 36" Mechanical Joint Ductile Iron 90 Degree Elbow	9,244.10	387.04
For Cement Mortar Lining (CML), Add	865.78	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,558.40	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	649.33	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0033 EA 42" Mechanical Joint Ductile Iron 90 Degree Elbow	15,524.04	447.36
For Cement Mortar Lining (CML), Add	1,484.62	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,672.32	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,113.47	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0034 EA 48" Mechanical Joint Ductile Iron 90 Degree Elbow	20,517.12	475.95
For Cement Mortar Lining (CML), Add	1,979.60	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,563.29	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,484.70	
Note: ANSI/AWWA C151/A21.51		

33 14 13 13-0035 Mechanical Joint Ductile Iron 45 Degree Elbow (33 14 13 13-0002)



		Utilities	33	
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
33 14 13 13-0036	EA	3" Mechanical Joint Ductile Iron 45 Degree Elbow	161.96	42.20
		For Cement Mortar Lining (CML), Add	9.80	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	17.64	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.35	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0037	EA	4" Mechanical Joint Ductile Iron 45 Degree Elbow	174.41	50.43
		For Cement Mortar Lining (CML), Add	9.80	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	17.64	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.35	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0038	EA	6" Mechanical Joint Ductile Iron 45 Degree Elbow	270.30	74.54
		For Cement Mortar Lining (CML), Add	15.74	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	28.34	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.81	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0039	EA	8" Mechanical Joint Ductile Iron 45 Degree Elbow	363.74	88.41
		For Cement Mortar Lining (CML), Add	22.97	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	41.35	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	17.23	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0040	EA	10" Mechanical Joint Ductile Iron 45 Degree Elbow	486.02	99.19
		For Cement Mortar Lining (CML), Add	33.58	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	60.44	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	25.18	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0041	EA	12" Mechanical Joint Ductile Iron 45 Degree Elbow	677.47	116.36
		For Cement Mortar Lining (CML), Add	50.13	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	90.23	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	37.59	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0042	EA	14" Mechanical Joint Ductile Iron 45 Degree Elbow	986.50	130.48
		For Cement Mortar Lining (CML), Add	78.88	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	141.99	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	59.16	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0043	EA	16" Mechanical Joint Ductile Iron 45 Degree Elbow	1,209.15	149.12
		For Cement Mortar Lining (CML), Add	98.32	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	176.98	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	73.74	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0044	EA	18" Mechanical Joint Ductile Iron 45 Degree Elbow	1,726.83	208.76
		For Cement Mortar Lining (CML), Add	141.06	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	253.90	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	105.79	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0045	EA	20" Mechanical Joint Ductile Iron 45 Degree Elbow	1,902.32	260.96
		For Cement Mortar Lining (CML), Add	150.70	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	271.25	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	113.02	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0046	EA	24" Mechanical Joint Ductile Iron 45 Degree Elbow	2,815.93	347.49
		For Cement Mortar Lining (CML), Add	228.94	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	412.08	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	171.70	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0047	EA	30" Mechanical Joint Ductile Iron 45 Degree Elbow	5,215.84	372.80
		For Cement Mortar Lining (CML), Add	465.10	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	837.18	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	348.82	
		Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0048 EA 36" Mechanical Joint Ductile Iron 45 Degree Elbow	7,386.92	387.04
For Cement Mortar Lining (CML), Add	680.06	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,224.10	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	510.04	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0049 EA 42" Mechanical Joint Ductile Iron 45 Degree Elbow	11,126.89	447.36
For Cement Mortar Lining (CML), Add	1,044.91	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,880.83	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	783.68	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0050 EA 48" Mechanical Joint Ductile Iron 45 Degree Elbow	14,413.80	475.95
For Cement Mortar Lining (CML), Add	1,369.27	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,464.69	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,026.95	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0051 Mechanical Joint Ductile Iron 22-1/2 Degree Elbow (33 14 13 13-0002)		
33 14 13 13-0052 EA 3" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	141.07	42.20
For Cement Mortar Lining (CML), Add	7.71	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	13.88	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.78	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0053 EA 4" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	169.59	50.43
For Cement Mortar Lining (CML), Add	9.32	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	16.77	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.99	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0054 EA 6" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	257.45	74.54
For Cement Mortar Lining (CML), Add	14.46	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	26.03	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.84	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0055 EA 8" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	358.92	88.41
For Cement Mortar Lining (CML), Add	22.49	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	40.49	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.87	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0056 EA 10" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	484.41	99.19
For Cement Mortar Lining (CML), Add	33.42	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	60.15	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	25.06	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0057 EA 12" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	614.81	116.36
For Cement Mortar Lining (CML), Add	43.86	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	78.95	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	32.89	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0058 EA 14" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	996.14	130.48
For Cement Mortar Lining (CML), Add	79.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	143.72	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	59.88	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0059 EA 16" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,168.99	149.12
For Cement Mortar Lining (CML), Add	94.31	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	169.75	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	70.73	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0060 EA 18" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,474.60	208.76
For Cement Mortar Lining (CML), Add	115.83	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	208.50	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	86.87	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
33 14 13 13-0061	EA	20" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,969.80 157.44 283.40 118.08	260.96
33 14 13 13-0062	EA	24" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,639.21 211.26 380.27 158.45	347.49
33 14 13 13-0063	EA	30" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,462.36 389.75 701.55 292.31	372.80
33 14 13 13-0064	EA	36" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,299.28 571.29 1,028.33 428.47	387.04
33 14 13 13-0065	EA	42" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,303.44 862.56 1,552.61 646.92	447.36
33 14 13 13-0066	EA	48" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,952.55 1,123.15 2,021.66 842.36	475.95
33 14 13 13-0067		Mechanical Joint Ductile Iron 11-1/4 Degree Elbow (33 14 13 13-0002)		
33 14 13 13-0068	EA	3" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	141.07 7.71 13.88 5.78	42.20
33 14 13 13-0069	EA	4" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	164.77 8.84 15.90 6.63	50.43
33 14 13 13-0070	EA	6" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	262.27 14.94 26.89 11.21	74.54
33 14 13 13-0071	EA	8" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	338.04 20.40 36.73 15.30	88.41
33 14 13 13-0072	EA	10" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	481.20 33.10 59.57 24.82	99.19
33 14 13 13-0073	EA	12" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	587.50 41.13 74.03 30.85	116.36

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0074 EA 14" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,108.60 91.09 163.97 68.32	130.48
33 14 13 13-0075 EA 16" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,223.61 99.77 179.58 74.83	149.12
33 14 13 13-0076 EA 18" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,779.85 146.36 263.44 109.77	208.76
33 14 13 13-0077 EA 20" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,878.22 148.29 266.91 111.21	260.96
33 14 13 13-0078 EA 24" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,504.26 197.77 355.98 148.33	347.49
33 14 13 13-0079 EA 30" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,533.05 396.82 714.28 297.62	372.80
33 14 13 13-0080 EA 36" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,010.10 542.38 976.28 406.78	387.04
33 14 13 13-0081 EA 42" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,909.83 823.20 1,481.76 617.40	447.36
33 14 13 13-0082 EA 48" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,875.44 1,115.44 2,007.78 836.58	475.95
33 14 13 13-0083 Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow (33 14 13 13-0002)		
33 14 13 13-0084 EA 3" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	178.03 11.41 20.53 8.56	42.20
33 14 13 13-0085 EA 4" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	217.79 14.14 25.45 10.60	50.43



		Utilities	33	
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0086	EA	6" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	347.42 23.46 42.22 17.59	74.54
33 14 13 13-0087	EA	8" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	469.78 33.58 60.44 25.18	88.41
33 14 13 13-0088	EA	10" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	677.20 52.70 94.85 39.52	99.19
33 14 13 13-0089	EA	12" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	865.43 68.92 124.06 51.69	116.36
33 14 13 13-0090	EA	14" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,479.71 128.20 230.77 96.15	130.48
33 14 13 13-0091	EA	16" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,256.63 203.07 365.52 152.30	149.12
33 14 13 13-0092	EA	18" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,623.29 230.70 415.26 173.03	208.76
33 14 13 13-0093	EA	20" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,561.90 316.65 569.98 237.49	260.96
33 14 13 13-0094	EA	24" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,330.91 380.43 684.78 285.32	347.49
33 14 13 13-0095	EA	30" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,056.24 749.14 1,348.45 561.85	372.80
33 14 13 13-0096	EA	36" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,391.52 1,380.52 2,484.93 1,035.39	387.04

33 14 13 13-0097 Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow (33 14 13 13-0002)

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0098	EA 3" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	163.57 9.96 17.93 7.47	42.20
33 14 13	13-0099	EA 4" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	179.23 10.28 18.51 7.71	50.43
33 14 13	13-0100	EA 6" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	287.98 17.51 31.52 13.13	74.54
33 14 13	13-0101	EA 8" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	415.16 28.12 50.61 21.09	88.41
33 14 13	13-0102	EA 10" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	567.96 41.77 75.19 31.33	99.19
33 14 13	13-0103	EA 12" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	770.65 59.44 107.00 44.58	116.36
33 14 13	13-0104	EA 14" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,311.03 111.34 200.40 83.50	130.48
33 14 13	13-0105	EA 16" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,991.55 176.56 317.81 132.42	149.12
33 14 13	13-0106	EA 18" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,354.99 203.87 366.97 152.90	208.76
33 14 13	13-0107	EA 20" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,057.44 266.21 479.17 199.66	260.96
33 14 13	13-0108	EA 24" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,844.13 331.76 597.16 248.82	347.49
33 14 13	13-0109	EA 30" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,081.06 651.62 1,172.92 488.72	372.80



		Utilities	33	
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
33 14 13 13-0110	EA	36" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,596.99 1,201.06 2,161.92 900.80	387.04
33 14 13 13-0111 Mechanical Joint Ductile Iron Tee (33 14 13 13-0002)				
33 14 13 13-0112	EA	3" x 3" Mechanical Joint Ductile Iron Tee For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	282.29 18.64 33.54 13.98	63.32
33 14 13 13-0113	EA	4" x 3" Mechanical Joint Ductile Iron Tee For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	293.58 18.64 33.54 13.98	70.76
33 14 13 13-0114	EA	4" x 4" Mechanical Joint Ductile Iron Tee For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	268.70 15.58 28.05 11.69	74.54
33 14 13 13-0115	EA	6" x 3" Mechanical Joint Ductile Iron Tee For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	357.53 21.53 38.75 16.15	93.88
33 14 13 13-0116	EA	6" x 4" Mechanical Joint Ductile Iron Tee For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	409.98 26.19 47.14 19.64	97.76
33 14 13 13-0117	EA	6" x 6" Mechanical Joint Ductile Iron Tee For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	446.90 28.12 50.61 21.09	109.45
33 14 13 13-0118	EA	8" x 4" Mechanical Joint Ductile Iron Tee For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	475.29 30.36 54.66 22.77	113.29
33 14 13 13-0119	EA	8" x 6" Mechanical Joint Ductile Iron Tee For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	539.52 35.02 63.04 26.27	124.93
33 14 13 13-0120	EA	8" x 8" Mechanical Joint Ductile Iron Tee For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	623.58 42.25 76.06 31.69	132.73
33 14 13 13-0121	EA	10" x 4" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	652.68 46.59 83.86 34.94	123.28
33 14 13 13-0122	EA	10" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	655.16 45.14 81.26 33.86	134.46

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0123 EA 10" x 8" Mechanical Joint Ductile Iron Tee.....	743.58	141.92
For Cement Mortar Lining (CML), Add	52.86	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	95.14	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	39.64	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0124 EA 10" x 10" Mechanical Joint Ductile Iron Tee.....	830.01	149.12
For Cement Mortar Lining (CML), Add	60.41	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	108.73	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	45.31	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0125 EA 12" x 4" Mechanical Joint Ductile Iron Tee.....	779.70	138.19
For Cement Mortar Lining (CML), Add	57.03	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	102.66	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	42.77	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0126 EA 12" x 6" Mechanical Joint Ductile Iron Tee.....	885.00	149.36
For Cement Mortar Lining (CML), Add	65.87	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	118.56	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	49.40	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0127 EA 12" x 8" Mechanical Joint Ductile Iron Tee.....	1,084.27	156.83
For Cement Mortar Lining (CML), Add	84.67	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	152.40	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	63.50	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0128 EA 12" x 10" Mechanical Joint Ductile Iron Tee.....	1,161.06	164.04
For Cement Mortar Lining (CML), Add	91.25	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	164.26	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	68.44	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0129 EA 12" x 12" Mechanical Joint Ductile Iron Tee.....	1,103.26	171.49
For Cement Mortar Lining (CML), Add	84.34	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	151.82	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	63.26	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0130 EA 14" x 6" Mechanical Joint Ductile Iron Tee.....	1,176.22	174.05
For Cement Mortar Lining (CML), Add	91.25	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	164.26	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	68.44	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0131 EA 14" x 8" Mechanical Joint Ductile Iron Tee.....	1,308.02	181.51
For Cement Mortar Lining (CML), Add	103.30	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	185.94	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	77.48	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0132 EA 14" x 10" Mechanical Joint Ductile Iron Tee.....	1,665.96	188.70
For Cement Mortar Lining (CML), Add	138.00	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	248.41	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	103.50	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0133 EA 14" x 12" Mechanical Joint Ductile Iron Tee.....	1,780.06	196.17
For Cement Mortar Lining (CML), Add	148.29	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	266.91	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	111.21	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0134 EA 14" x 14" Mechanical Joint Ductile Iron Tee.....	1,720.05	208.54
For Cement Mortar Lining (CML), Add	140.41	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	252.74	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	105.31	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
33 14 13 13-0135	EA	16" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,493.81 117.76 211.97 88.32	208.75
33 14 13 13-0136	EA	16" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,606.44 127.88 230.19 95.91	216.23
33 14 13 13-0137	EA	16" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,867.97 152.95 275.30 114.71	223.42
33 14 13 13-0138	EA	16" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,043.14 169.33 304.80 127.00	230.87
33 14 13 13-0139	EA	16" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,455.44 208.69 375.65 156.52	243.23
33 14 13 13-0140	EA	16" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,324.30 192.95 347.31 144.71	260.63
33 14 13 13-0141	EA	18" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,072.42 166.76 300.17 125.07	267.17
33 14 13 13-0142	EA	18" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,221.88 180.58 325.04 135.43	274.63
33 14 13 13-0143	EA	18" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,403.10 197.61 355.69 148.21	281.84
33 14 13 13-0144	EA	18" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,583.08 214.48 386.06 160.86	289.30
33 14 13 13-0145	EA	18" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,658.02 220.10 396.18 165.07	301.63
33 14 13 13-0146	EA	18" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,836.93 235.36 423.65 176.52	318.99

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0147 EA 18" x 18" Mechanical Joint Ductile Iron Tee.....	3,319.77	348.18
For Cement Mortar Lining (CML), Add	279.22	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	502.60	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	209.42	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0148 EA 20" x 6" Mechanical Joint Ductile Iron Tee.....	2,456.96	383.13
For Cement Mortar Lining (CML), Add	187.65	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	337.76	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	140.73	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0149 EA 20" x 8" Mechanical Joint Ductile Iron Tee.....	2,510.04	390.60
For Cement Mortar Lining (CML), Add	191.82	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	345.28	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	143.87	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0150 EA 20" x 10" Mechanical Joint Ductile Iron Tee.....	2,731.41	397.79
For Cement Mortar Lining (CML), Add	212.87	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	383.16	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	159.65	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0151 EA 20" x 12" Mechanical Joint Ductile Iron Tee.....	2,951.56	405.25
For Cement Mortar Lining (CML), Add	233.75	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	420.76	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	175.32	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0152 EA 20" x 14" Mechanical Joint Ductile Iron Tee.....	2,987.93	417.58
For Cement Mortar Lining (CML), Add	235.52	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	423.94	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	176.64	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0153 EA 20" x 16" Mechanical Joint Ductile Iron Tee.....	3,033.51	434.95
For Cement Mortar Lining (CML), Add	237.45	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	427.41	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	178.09	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0154 EA 20" x 18" Mechanical Joint Ductile Iron Tee.....	3,803.92	464.15
For Cement Mortar Lining (CML), Add	310.07	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	558.12	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	232.55	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0155 EA 20" x 20" Mechanical Joint Ductile Iron Tee.....	3,364.82	522.15
For Cement Mortar Lining (CML), Add	257.37	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	463.27	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	193.03	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0156 EA 24" x 6" Mechanical Joint Ductile Iron Tee.....	3,012.86	498.73
For Cement Mortar Lining (CML), Add	225.72	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	406.30	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	169.29	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0157 EA 24" x 8" Mechanical Joint Ductile Iron Tee.....	3,053.09	506.90
For Cement Mortar Lining (CML), Add	228.61	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	411.50	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	171.46	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0158 EA 24" x 10" Mechanical Joint Ductile Iron Tee.....	3,359.61	513.39
For Cement Mortar Lining (CML), Add	258.17	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	464.71	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	193.63	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0159	EA	24" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,443.20 265.40 477.73 199.05	520.85
33 14 13 13-0160	EA	24" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,869.95 306.21 551.18 229.66	533.19
33 14 13 13-0161	EA	24" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,177.41 334.33 601.79 250.74	550.54
33 14 13 13-0162	EA	24" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,742.19 386.38 695.48 289.78	579.75
33 14 13 13-0163	EA	24" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,255.78 428.95 772.11 321.71	637.73
33 14 13 13-0164	EA	24" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,874.23 382.04 687.67 286.53	695.56
33 14 13 13-0165	EA	30" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,201.82 431.04 775.87 323.28	588.33
33 14 13 13-0166	EA	30" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,477.81 457.55 823.59 343.16	595.53
33 14 13 13-0167	EA	30" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,754.20 484.06 871.30 363.04	602.99
33 14 13 13-0168	EA	30" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,148.82 521.65 938.97 391.24	615.34
33 14 13 13-0169	EA	30" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,576.76 561.81 1,011.27 421.36	818.70
33 14 13 13-0170	EA	30" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,755.97 575.31 1,035.56 431.48	661.90

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0171	EA 30" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,031.78 594.11 1,069.39 445.58	719.89
33 14 13	13-0172	EA 30" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,390.86 621.26 1,118.26 465.94	777.68
33 14 13	13-0173	EA 30" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,249.22 800.87 1,441.57 600.65	818.70
33 14 13	13-0174	EA 30" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,434.71 455.46 819.83 341.60	580.87
33 14 13	13-0175	EA 36" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,351.57 536.27 965.29 402.20	652.65
33 14 13	13-0176	EA 36" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,059.73 605.99 1,090.79 454.50	659.86
33 14 13	13-0177	EA 36" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,443.75 643.27 1,157.88 482.45	667.32
33 14 13	13-0178	EA 36" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,721.11 669.13 1,204.44 501.85	679.65
33 14 13	13-0179	EA 36" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,002.85 694.68 1,250.42 521.01	697.01
33 14 13	13-0180	EA 36" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,541.92 744.16 1,339.49 558.12	726.22
33 14 13	13-0181	EA 36" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,126.19 793.80 1,428.84 595.35	784.19
33 14 13	13-0182	EA 36" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,094.17 881.84 1,587.31 661.38	841.99



		Utilities	33	
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0183	EA	36" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,154.06 981.61 1,766.89 736.21	915.29
33 14 13 13-0184	EA	36" x 36" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,010.16 1,162.35 2,092.22 871.76	915.29
33 14 13 13-0185	EA	42" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,586.37 1,352.08 2,433.75 1,014.06	703.26
33 14 13 13-0186	EA	42" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,878.18 1,379.39 2,482.91 1,034.54	715.62
33 14 13 13-0187	EA	42" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,528.72 1,541.82 2,775.27 1,156.36	732.96
33 14 13 13-0188	EA	42" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,464.43 1,430.96 2,575.73 1,073.22	762.17
33 14 13 13-0189	EA	42" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,552.28 1,430.96 2,575.73 1,073.22	820.16
33 14 13 13-0190	EA	42" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,901.73 1,457.15 2,622.87 1,092.86	877.95
33 14 13 13-0191	EA	42" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	19,267.06 1,787.46 3,217.43 1,340.59	919.03
33 14 13 13-0192	EA	42" x 36" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	20,066.04 1,862.49 3,352.47 1,396.86	951.19
33 14 13 13-0193	EA	42" x 42" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	21,222.68 1,975.43 3,555.77 1,481.57	969.18
33 14 13 13-0194	EA	48" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,177.81 1,602.54 2,884.58 1,201.91	760.57

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0195 EA 48" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,485.68 1,631.46 2,936.63 1,223.60	772.90
33 14 13 13-0196 EA 48" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,921.65 1,672.43 3,010.37 1,254.32	790.26
33 14 13 13-0197 EA 48" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,373.97 1,713.24 3,083.82 1,284.93	819.46
33 14 13 13-0198 EA 48" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,871.49 1,754.20 3,157.57 1,315.65	877.44
33 14 13 13-0199 EA 48" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	19,013.68 1,759.67 3,167.40 1,319.75	935.24
33 14 13 13-0200 EA 48" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	23,122.85 2,164.36 3,895.84 1,623.27	976.31
33 14 13 13-0201 EA 48" x 36" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	26,352.56 2,482.46 4,468.42 1,861.84	1,008.47
33 14 13 13-0202 EA 48" x 42" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	27,639.34 2,608.41 4,695.14 1,956.31	1,026.45
33 14 13 13-0203 EA 48" x 48" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	28,102.06 2,650.34 4,770.62 1,987.76	1,055.15
33 14 13 13-0204 Mechanical Joint Ductile Iron Wye (Laterals) (33 14 13 13-0002)		
33 14 13 13-0205 EA 4" x 3" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	243.78 13.66 24.58 10.24	70.76
33 14 13 13-0206 EA 4" x 4" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	368.30 25.54 45.98 19.16	74.48
33 14 13 13-0207 EA 6" x 3" Mechanical Joint Ductile Iron Wye (Lateral)..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	357.53 21.53 38.75 16.15	93.88



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MINOR		UOM	DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI				UNIT COST	UNIT COST
33 14 13 13-0208	EA		6" x 4" Mechanical Joint Ductile Iron Wye (Lateral)	411.59	97.76
			For Cement Mortar Lining (CML), Add	26.35	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	47.43	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	19.76	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0209	EA		6" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	551.32	109.39
			For Cement Mortar Lining (CML), Add	38.56	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	69.40	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	28.92	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0210	EA		8" x 4" Mechanical Joint Ductile Iron Wye (Lateral)	703.42	113.29
			For Cement Mortar Lining (CML), Add	53.18	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	95.72	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	39.88	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0211	EA		8" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	634.31	124.93
			For Cement Mortar Lining (CML), Add	44.50	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	80.10	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	33.38	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0212	EA		8" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	763.35	132.69
			For Cement Mortar Lining (CML), Add	56.23	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	101.21	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	42.17	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0213	EA		10" x 4" Mechanical Joint Ductile Iron Wye (Lateral)	1,081.63	123.28
			For Cement Mortar Lining (CML), Add	89.49	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	161.07	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	67.11	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0214	EA		10" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	1,145.16	134.46
			For Cement Mortar Lining (CML), Add	94.14	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	169.46	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	70.61	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0215	EA		10" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	1,313.91	141.92
			For Cement Mortar Lining (CML), Add	109.89	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	197.80	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	82.42	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0216	EA		10" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	1,477.45	149.12
			For Cement Mortar Lining (CML), Add	125.15	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	225.27	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	93.86	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0217	EA		12" x 4" Mechanical Joint Ductile Iron Wye (Lateral)	1,377.34	138.19
			For Cement Mortar Lining (CML), Add	116.80	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	210.23	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	87.60	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0218	EA		12" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	1,556.54	149.36
			For Cement Mortar Lining (CML), Add	133.02	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	239.44	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	99.77	
			Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0219	EA		12" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	1,871.48	156.83
			For Cement Mortar Lining (CML), Add	163.39	
			Note: ANSI/AWWA C104/A21.4		
			For Fusion Bonded Epoxy Lining (206N), Add	294.10	
			Note: ANSI/AWWA C104/A21.4		
			For Bituminous Or Coal Tar Coating, 1 Mil, Add	122.54	
			Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0220	EA	12" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	1,925.78	164.04
		For Cement Mortar Lining (CML), Add	167.73	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	301.91	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	125.79	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0221	EA	12" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	1,749.10	171.48
		For Cement Mortar Lining (CML), Add	148.93	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	268.07	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	111.70	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0222	EA	14" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	2,056.61	174.05
		For Cement Mortar Lining (CML), Add	179.29	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	322.73	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	134.47	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0223	EA	14" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	2,350.68	181.51
		For Cement Mortar Lining (CML), Add	207.57	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	373.62	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	155.68	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0224	EA	14" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	3,060.45	188.70
		For Cement Mortar Lining (CML), Add	277.45	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	499.42	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	208.09	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0225	EA	14" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	3,277.38	196.17
		For Cement Mortar Lining (CML), Add	298.02	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	536.43	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	223.51	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0226	EA	14" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	3,206.11	208.50
		For Cement Mortar Lining (CML), Add	289.02	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	520.24	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	216.77	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0227	EA	16" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	2,118.86	208.75
		For Cement Mortar Lining (CML), Add	180.26	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	324.46	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	135.19	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0228	EA	16" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	2,329.39	216.23
		For Cement Mortar Lining (CML), Add	200.18	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	360.32	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	150.13	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0229	EA	16" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	2,740.33	223.42
		For Cement Mortar Lining (CML), Add	240.18	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	432.33	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	180.14	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0230	EA	16" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	3,061.70	230.87
		For Cement Mortar Lining (CML), Add	271.19	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	488.14	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	203.39	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0231	EA	16" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	3,822.62	243.23
		For Cement Mortar Lining (CML), Add	345.41	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	621.74	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	259.06	
		Note: ANSI/AWWA C151/A21.51		



		Utilities	33	
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0232	EA	16" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	3,691.48	260.58
		For Cement Mortar Lining (CML), Add	329.67	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	593.40	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	247.25	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0233	EA	18" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	3,323.93	267.17
		For Cement Mortar Lining (CML), Add	291.91	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	525.44	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	218.93	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0234	EA	18" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	3,576.21	274.63
		For Cement Mortar Lining (CML), Add	316.01	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	568.82	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	237.01	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0235	EA	18" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	3,820.08	281.84
		For Cement Mortar Lining (CML), Add	339.31	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	610.75	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	254.48	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0236	EA	18" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	4,085.21	289.30
		For Cement Mortar Lining (CML), Add	364.69	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	656.44	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	273.52	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0237	EA	18" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	4,132.84	301.63
		For Cement Mortar Lining (CML), Add	367.58	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	661.65	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	275.69	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0238	EA	18" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	4,178.41	318.99
		For Cement Mortar Lining (CML), Add	369.51	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	665.12	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	277.13	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0239	EA	18" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	3,833.87	348.20
		For Cement Mortar Lining (CML), Add	330.63	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	595.13	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	247.97	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0240	EA	20" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	3,957.49	383.13
		For Cement Mortar Lining (CML), Add	337.70	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	607.86	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	253.27	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0241	EA	20" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	4,044.31	390.60
		For Cement Mortar Lining (CML), Add	345.25	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	621.45	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	258.94	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0242	EA	20" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	4,434.37	397.79
		For Cement Mortar Lining (CML), Add	383.17	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	689.70	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	287.37	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0243	EA	20" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	4,821.60	405.25
		For Cement Mortar Lining (CML), Add	420.76	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	757.36	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	315.57	
		Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0244	EA	20" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	4,872.42	417.58
		For Cement Mortar Lining (CML), Add	423.97	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	763.15	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	317.98	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0245	EA	20" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	4,932.46	434.95
		For Cement Mortar Lining (CML), Add	427.35	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	769.22	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	320.51	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0246	EA	20" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	5,706.09	464.15
		For Cement Mortar Lining (CML), Add	500.28	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	900.51	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	375.21	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0247	EA	20" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	5,424.43	522.13
		For Cement Mortar Lining (CML), Add	463.33	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	834.00	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	347.50	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0248	EA	24" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	4,818.63	498.73
		For Cement Mortar Lining (CML), Add	406.30	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	731.34	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	304.72	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0249	EA	24" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	4,881.36	506.19
		For Cement Mortar Lining (CML), Add	411.44	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	740.59	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	308.58	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0250	EA	24" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	5,424.04	513.39
		For Cement Mortar Lining (CML), Add	464.62	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	836.31	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	348.46	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0251	EA	24" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	5,673.10	520.85
		For Cement Mortar Lining (CML), Add	488.39	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	879.11	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	366.30	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0252	EA	24" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	6,533.63	533.19
		For Cement Mortar Lining (CML), Add	572.58	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,030.64	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	429.43	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0253	EA	24" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	7,249.15	550.54
		For Cement Mortar Lining (CML), Add	641.50	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,154.70	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	481.12	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0254	EA	24" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	8,103.11	579.75
		For Cement Mortar Lining (CML), Add	722.47	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,300.45	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	541.85	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0255	EA	24" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	8,902.67	637.73
		For Cement Mortar Lining (CML), Add	793.64	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,428.55	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	595.23	
		Note: ANSI/AWWA C151/A21.51		



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0256	EA	24" x 24" Mechanical Joint Ductile Iron Wye (Lateral)	7,929.91	695.52
		For Cement Mortar Lining (CML), Add	687.61	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,237.69	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	515.71	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0257	EA	30" x 6" Mechanical Joint Ductile Iron Wye (Lateral)	9,843.11	580.87
		For Cement Mortar Lining (CML), Add	896.30	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,613.34	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	672.23	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0258	EA	30" x 8" Mechanical Joint Ductile Iron Wye (Lateral)	11,020.78	588.33
		For Cement Mortar Lining (CML), Add	1,012.94	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,823.28	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	759.70	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0259	EA	30" x 10" Mechanical Joint Ductile Iron Wye (Lateral)	11,655.04	595.53
		For Cement Mortar Lining (CML), Add	1,075.27	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	1,935.49	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	806.45	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0260	EA	30" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	12,289.68	602.99
		For Cement Mortar Lining (CML), Add	1,137.61	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	2,047.69	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	853.20	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0261	EA	30" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	13,190.37	615.34
		For Cement Mortar Lining (CML), Add	1,225.81	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	2,206.45	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	919.35	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0262	EA	30" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	14,161.33	632.69
		For Cement Mortar Lining (CML), Add	1,320.27	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	2,376.49	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	990.20	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0263	EA	30" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	14,522.08	661.90
		For Cement Mortar Lining (CML), Add	1,351.92	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	2,433.46	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,013.94	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0264	EA	30" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	15,051.73	719.89
		For Cement Mortar Lining (CML), Add	1,396.10	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	2,512.98	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,047.08	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0265	EA	30" x 24" Mechanical Joint Ductile Iron Wye (Lateral)	15,777.10	777.68
		For Cement Mortar Lining (CML), Add	1,459.88	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	2,627.79	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,094.91	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0266	EA	30" x 30" Mechanical Joint Ductile Iron Wye (Lateral)	17,094.06	818.75
		For Cement Mortar Lining (CML), Add	1,585.35	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	2,853.64	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,189.01	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0267	EA	36" x 12" Mechanical Joint Ductile Iron Wye (Lateral)	18,700.91	667.32
		For Cement Mortar Lining (CML), Add	1,768.98	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	3,184.17	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,326.74	
		Note: ANSI/AWWA C151/A21.51		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0268	EA	36" x 14" Mechanical Joint Ductile Iron Wye (Lateral)	19,431.33	679.65
		For Cement Mortar Lining (CML), Add	1,840.15	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	3,312.28	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,380.12	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0269	EA	36" x 16" Mechanical Joint Ductile Iron Wye (Lateral)	20,159.68	697.01
		For Cement Mortar Lining (CML), Add	1,910.36	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	3,438.65	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,432.77	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0270	EA	36" x 18" Mechanical Joint Ductile Iron Wye (Lateral)	21,564.69	726.22
		For Cement Mortar Lining (CML), Add	2,046.44	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	3,683.58	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,534.83	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0271	EA	36" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	23,018.12	784.19
		For Cement Mortar Lining (CML), Add	2,182.99	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	3,929.39	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,637.25	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0272	EA	36" x 24" Mechanical Joint Ductile Iron Wye (Lateral)	25,526.78	841.99
		For Cement Mortar Lining (CML), Add	2,425.10	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	4,365.18	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,818.83	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0273	EA	36" x 30" Mechanical Joint Ductile Iron Wye (Lateral)	28,582.02	883.07
		For Cement Mortar Lining (CML), Add	2,724.40	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	4,903.93	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,043.30	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0274	EA	36" x 36" Mechanical Joint Ductile Iron Wye (Lateral)	34,078.61	915.23
		For Cement Mortar Lining (CML), Add	3,269.19	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	5,884.54	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,451.89	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0275	EA	42" x 20" Mechanical Joint Ductile Iron Wye (Lateral)	29,990.43	820.16
		For Cement Mortar Lining (CML), Add	2,874.78	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	5,174.60	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,156.08	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0276	EA	42" x 24" Mechanical Joint Ductile Iron Wye (Lateral)	30,747.95	877.95
		For Cement Mortar Lining (CML), Add	2,941.77	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	5,295.19	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,206.33	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0277	EA	42" x 30" Mechanical Joint Ductile Iron Wye (Lateral)	32,840.88	919.03
		For Cement Mortar Lining (CML), Add	3,144.84	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	5,660.71	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,358.63	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0278	EA	42" x 36" Mechanical Joint Ductile Iron Wye (Lateral)	37,532.56	951.19
		For Cement Mortar Lining (CML), Add	3,609.14	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	6,496.45	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,706.85	
		Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0279	EA	42" x 42" Mechanical Joint Ductile Iron Wye (Lateral)	44,233.44	969.16
		For Cement Mortar Lining (CML), Add	4,276.50	
		Note: ANSI/AWWA C104/A21.4		
		For Fusion Bonded Epoxy Lining (206N), Add	7,697.70	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	3,207.38	
		Note: ANSI/AWWA C151/A21.51		



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0280	EA	48" x 20" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	29,601.70 2,827.22 5,089.00 2,120.42	877.44
33 14 13 13-0281	EA	48" x 24" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	33,512.89 3,209.59 5,777.25 2,407.19	935.24
33 14 13 13-0282	EA	48" x 30" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	35,713.46 3,423.42 6,162.15 2,567.56	976.31
33 14 13 13-0283	EA	48" x 36" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	40,686.28 3,915.83 7,048.49 2,936.87	1,008.47
33 14 13 13-0284	EA	48" x 42" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	53,132.23 5,157.70 9,283.86 3,868.28	1,026.45
33 14 13 13-0285	EA	48" x 48" Mechanical Joint Ductile Iron Wye (Lateral) For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	58,316.62 5,671.80 10,209.24 4,253.85	1,055.10
33 14 13 13-0286 Mechanical Joint Ductile Iron Cross (33 14 13 13-0002)				
33 14 13 13-0287	EA	3" x 3" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	335.15 20.73 37.31 15.54	84.42
33 14 13 13-0288	EA	4" x 3" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	404.27 26.51 47.71 19.88	91.86
33 14 13 13-0289	EA	4" x 4" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	476.85 33.58 60.44 25.18	93.11
33 14 13 13-0290	EA	6" x 3" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	569.67 39.52 71.14 29.64	115.09
33 14 13 13-0291	EA	6" x 4" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	554.39 36.63 65.93 27.47	124.15
33 14 13 13-0292	EA	6" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	646.40 41.13 74.03 30.85	155.18

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0293 EA 8" x 4" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	570.44 36.47 65.64 27.35	135.80
33 14 13 13-0294 EA 8" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	678.51 42.57 76.63 31.93	166.83
33 14 13 13-0295 EA 8" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	718.66 44.82 80.68 33.62	178.46
33 14 13 13-0296 EA 10" x 4" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	693.98 47.55 85.60 35.67	144.17
33 14 13 13-0297 EA 10" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	797.00 53.34 96.01 40.00	174.00
33 14 13 13-0298 EA 10" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	942.48 66.19 119.14 49.64	185.19
33 14 13 13-0299 EA 10" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,019.44 71.81 129.26 53.86	198.83
33 14 13 13-0300 EA 12 x 4" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	838.08 60.09 108.15 45.06	156.58
33 14 13 13-0301 EA 12" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	974.86 69.24 124.64 51.93	186.40
33 14 13 13-0302 EA 12" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,391.84 109.25 196.64 81.93	197.59
33 14 13 13-0303 EA 12" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,412.57 109.25 196.64 81.93	211.28
33 14 13 13-0304 EA 12" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,600.06 126.12 227.01 94.59	223.68



		Utilities	33	
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0305	EA	14" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,634.46 132.38 238.29 99.29	205.03
33 14 13 13-0306	EA	14" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,918.11 159.05 286.29 119.29	216.23
33 14 13 13-0307	EA	14" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,970.98 162.26 292.07 121.70	229.90
33 14 13 13-0308	EA	14" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,079.73 171.26 308.27 128.44	242.31
33 14 13 13-0309	EA	14" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,299.14 190.38 342.68 142.78	260.96
33 14 13 13-0310	EA	16" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,868.37 151.82 273.28 113.87	231.12
33 14 13 13-0311	EA	16" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,121.49 175.44 315.78 131.58	242.31
33 14 13 13-0312	EA	16" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,531.95 214.41 385.94 160.81	255.98
33 14 13 13-0313	EA	16" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,818.11 241.15 434.06 180.86	268.39
33 14 13 13-0314	EA	16" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,395.78 296.09 532.96 222.07	287.03
33 14 13 13-0315	EA	16" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,970.27 349.59 629.26 262.19	313.15
33 14 13 13-0316	EA	18" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,066.49 265.24 477.44 198.93	273.29

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0317 EA 18" x 8" Mechanical Joint Ductile Iron Cross	3,240.89	284.48
For Cement Mortar Lining (CML), Add	280.99	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	505.78	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	210.74	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0318 EA 18" x 10" Mechanical Joint Ductile Iron Cross	3,393.36	298.15
For Cement Mortar Lining (CML), Add	294.16	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	529.49	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	220.62	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0319 EA 18" x 12" Mechanical Joint Ductile Iron Cross	3,675.63	310.56
For Cement Mortar Lining (CML), Add	320.51	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	576.92	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	240.38	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0320 EA 18" x 14" Mechanical Joint Ductile Iron Cross	4,280.62	329.20
For Cement Mortar Lining (CML), Add	378.18	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	680.73	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	283.64	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0321 EA 18" x 16" Mechanical Joint Ductile Iron Cross	4,557.91	355.27
For Cement Mortar Lining (CML), Add	401.96	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	723.53	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	301.47	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0322 EA 18" x 18" Mechanical Joint Ductile Iron Cross	4,779.25	397.43
For Cement Mortar Lining (CML), Add	417.71	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	751.87	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	313.28	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0323 EA 20" x 6" Mechanical Joint Ductile Iron Cross	3,854.76	342.89
For Cement Mortar Lining (CML), Add	333.52	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	600.34	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	250.14	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0324 EA 20" x 8" Mechanical Joint Ductile Iron Cross	4,030.76	354.09
For Cement Mortar Lining (CML), Add	349.43	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	628.97	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	262.07	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0325 EA 20" x 10" Mechanical Joint Ductile Iron Cross	4,155.90	367.77
For Cement Mortar Lining (CML), Add	359.87	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	647.76	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	269.90	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0326 EA 20" x 12" Mechanical Joint Ductile Iron Cross	4,436.58	380.17
For Cement Mortar Lining (CML), Add	386.06	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	694.90	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	289.54	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0327 EA 20" x 14" Mechanical Joint Ductile Iron Cross	4,517.83	398.80
For Cement Mortar Lining (CML), Add	391.36	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	704.44	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	293.52	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0328 EA 20" x 16" Mechanical Joint Ductile Iron Cross	5,450.59	424.88
For Cement Mortar Lining (CML), Add	480.68	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	865.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	360.51	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0329	EA	20" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,671.92 496.43 893.57 372.32	467.06
33 14 13 13-0330	EA	20" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,145.30 533.22 959.79 399.91	536.61
33 14 13 13-0331	EA	24" x 6" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,246.28 459.64 827.35 344.73	428.93
33 14 13 13-0332	EA	24" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,369.61 470.24 846.43 352.68	440.14
33 14 13 13-0333	EA	24" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,573.13 488.56 879.40 366.42	453.81
33 14 13 13-0334	EA	24" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,749.38 504.30 907.74 378.22	466.22
33 14 13 13-0335	EA	24" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,856.32 512.17 921.91 384.13	484.84
33 14 13 13-0336	EA	24" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,080.60 530.65 955.16 397.99	510.93
33 14 13 13-0337	EA	24" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,009.70 717.17 1,290.90 537.88	553.10
33 14 13 13-0338	EA	24" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,455.76 751.23 1,352.21 563.42	622.71
33 14 13 13-0339	EA	24" x 24" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,321.94 824.81 1,484.65 618.61	708.78
33 14 13 13-0340	EA	30" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,974.95 911.08 1,639.94 683.31	570.33

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0341 EA 30" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,173.99 928.91 1,672.04 696.68	584.01
33 14 13 13-0342 EA 30" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,369.53 946.59 1,703.85 709.94	596.42
33 14 13 13-0343 EA 30" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,601.77 966.99 1,740.58 725.24	615.06
33 14 13 13-0344 EA 30" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,869.43 989.80 1,781.64 742.35	641.13
33 14 13 13-0345 EA 30" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,187.16 1,015.19 1,827.33 761.39	683.30
33 14 13 13-0346 EA 30" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,596.27 1,045.55 1,881.99 784.16	752.91
33 14 13 13-0347 EA 30" x 24" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,877.11 1,360.60 2,449.07 1,020.45	838.95
33 14 13 13-0348 EA 30" x 30" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,108.28 1,563.99 2,815.17 1,172.99	969.18
33 14 13 13-0349 EA 36" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	13,880.92 1,294.41 2,329.93 970.80	618.33
33 14 13 13-0350 EA 36" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,078.36 1,312.08 2,361.74 984.06	632.00
33 14 13 13-0351 EA 36" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,248.18 1,327.18 2,388.92 995.38	644.42
33 14 13 13-0352 EA 36" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,453.12 1,344.85 2,420.73 1,008.64	663.05



		Utilities	33	
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0353	EA	36" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,695.07 1,365.09 2,457.17 1,023.82	689.13
33 14 13 13-0354	EA	36" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,985.50 1,387.75 2,497.94 1,040.81	731.29
33 14 13 13-0355	EA	36" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,368.90 1,415.54 2,547.97 1,061.66	800.90
33 14 13 13-0356	EA	36" x 24" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,029.43 1,468.56 2,643.40 1,101.42	886.95
33 14 13 13-0357	EA	36" x 30" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	21,550.84 2,000.97 3,601.75 1,500.73	1,017.16
33 14 13 13-0358	EA	36" x 36" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	23,667.11 2,205.33 3,969.59 1,653.99	1,065.20
33 14 13 13-0359	EA	42" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,595.81 1,757.74 3,163.93 1,318.30	672.16
33 14 13 13-0360	EA	42" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	21,010.98 1,996.43 3,593.58 1,497.32	690.81
33 14 13 13-0361	EA	42" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	19,025.02 1,793.89 3,228.99 1,345.41	716.88
33 14 13 13-0362	EA	42" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	19,283.31 1,813.32 3,263.98 1,359.99	759.05
33 14 13 13-0363	EA	42" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	19,653.87 1,839.83 3,311.70 1,379.87	828.66
33 14 13 13-0364	EA	42" x 24" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	20,267.81 1,888.19 3,398.74 1,416.14	914.70

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0365	EA	42" x 30" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	25,920.97 2,433.78 4,380.80 1,825.33	1,044.91
33 14 13 13-0366	EA	42" x 36" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	33,793.54 3,213.76 5,784.77 2,410.32	1,092.90
33 14 13 13-0367	EA	42" x 42" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	36,200.43 3,450.25 6,210.45 2,587.69	1,120.67
33 14 13 13-0368	EA	48" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	25,113.47 2,392.81 4,307.06 1,794.61	782.34
33 14 13 13-0369	EA	48" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	25,286.31 2,407.27 4,333.09 1,805.45	800.98
33 14 13 13-0370	EA	48" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	25,518.61 2,426.55 4,367.79 1,819.91	827.06
33 14 13 13-0371	EA	48" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	25,775.28 2,445.83 4,402.49 1,834.37	869.22
33 14 13 13-0372	EA	48" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	26,123.35 2,470.09 4,446.15 1,852.56	938.84
33 14 13 13-0373	EA	48" x 24" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	26,711.58 2,515.87 4,528.57 1,886.90	1,024.88
33 14 13 13-0374	EA	48" x 30" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	28,285.69 2,653.56 4,776.40 1,990.17	1,155.09
33 14 13 13-0375	EA	48" x 36" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	34,611.14 3,278.83 5,901.89 2,459.12	1,203.08
33 14 13 13-0376	EA	48" x 42" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	44,432.31 4,256.74 7,662.13 3,192.56	1,230.83



Utilities			33	CS
Water Utilities			33 10	
Water Utility Transmission and Distribution			33 14	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0377	EA		48" x 48" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	47,327.19 4,529.54 8,153.16 3,397.15	1,340.96
33 14 13 13-0378			Mechanical Joint x Mechanical Joint Ductile Iron Reducers (33 14 13 13-0002)		
33 14 13 13-0379	EA		4" x 3" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	162.78 9.32 16.77 6.99	45.93
33 14 13 13-0380	EA		6" x 3" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	190.05 10.28 18.51 7.71	57.57
33 14 13 13-0381	EA		6" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	205.33 11.25 20.24 8.43	61.29
33 14 13 13-0382	EA		8" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	258.98 15.42 27.76 11.57	69.07
33 14 13 13-0383	EA		8" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	286.13 16.39 29.50 12.29	80.69
33 14 13 13-0384	EA		10" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	312.29 20.08 36.15 15.06	73.56
33 14 13 13-0385	EA		10" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	340.47 21.21 38.17 15.91	84.76
33 14 13 13-0386	EA		10" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	372.66 23.30 41.93 17.47	92.21
33 14 13 13-0387	EA		12" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	376.60 25.38 45.69 19.04	81.02
33 14 13 13-0388	EA		12" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	419.24 27.95 50.32 20.97	92.21
33 14 13 13-0389	EA		12" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	438.58 28.76 51.76 21.57	99.66

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0390 EA 12" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	480.02	106.87
For Cement Mortar Lining (CML), Add	31.81	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	57.26	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	23.86	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0391 EA 14" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	778.53	104.54
For Cement Mortar Lining (CML), Add	62.01	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	111.62	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	46.51	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0392 EA 14" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	757.70	112.01
For Cement Mortar Lining (CML), Add	58.80	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	105.84	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	44.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0393 EA 14" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	681.87	119.21
For Cement Mortar Lining (CML), Add	50.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	90.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	37.59	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0394 EA 14" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	717.27	126.66
For Cement Mortar Lining (CML), Add	52.54	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	94.56	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	39.40	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0395 EA 16" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	914.08	121.90
For Cement Mortar Lining (CML), Add	72.94	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	131.29	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	54.70	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0396 EA 16" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	898.07	129.36
For Cement Mortar Lining (CML), Add	70.21	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	126.37	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	52.66	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0397 EA 16" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	883.28	136.57
For Cement Mortar Lining (CML), Add	67.64	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	121.74	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	50.73	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0398 EA 16" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	957.23	144.03
For Cement Mortar Lining (CML), Add	73.90	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	133.02	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	55.43	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0399 EA 16" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,064.29	156.36
For Cement Mortar Lining (CML), Add	82.74	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	148.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	62.05	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0400 EA 18" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,141.53	158.56
For Cement Mortar Lining (CML), Add	90.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	162.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	67.60	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0401 EA 18" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,277.76	165.77
For Cement Mortar Lining (CML), Add	102.66	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	184.79	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	76.99	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0402	EA	18" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,234.43 97.20 174.95 72.90	173.23
33 14 13 13-0403	EA	18" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,309.37 102.82 185.08 77.12	185.57
33 14 13 13-0404	EA	18" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,380.64 107.32 193.17 80.49	202.93
33 14 13 13-0405	EA	20" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,610.13 128.20 230.77 96.15	216.55
33 14 13 13-0406	EA	20" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,547.14 120.81 217.46 90.61	223.75
33 14 13 13-0407	EA	20" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,431.52 108.12 194.62 81.09	231.21
33 14 13 13-0408	EA	20" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,442.19 107.32 193.17 80.49	243.54
33 14 13 13-0409	EA	20" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,490.98 109.57 197.22 82.18	260.90
33 14 13 13-0410	EA	20" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,784.25 134.47 242.04 100.85	290.11
33 14 13 13-0411	EA	24" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,094.24 165.64 298.14 124.23	289.00
33 14 13 13-0412	EA	24" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,154.71 169.81 305.66 127.36	301.35
33 14 13 13-0413	EA	24" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,203.51 172.06 309.71 129.05	318.70

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0414 EA 24" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,172.25	347.90
For Cement Mortar Lining (CML), Add	164.51	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	296.12	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	123.38	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0415 EA 24" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,652.10	405.89
For Cement Mortar Lining (CML), Add	203.71	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	366.68	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	152.78	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0416 EA 30" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,280.37	359.77
For Cement Mortar Lining (CML), Add	373.53	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	672.35	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	280.14	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0417 EA 30" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,472.42	388.98
For Cement Mortar Lining (CML), Add	388.31	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	698.95	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	291.23	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0418 EA 30" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,344.99	446.96
For Cement Mortar Lining (CML), Add	366.78	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	660.20	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	275.08	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0419 EA 30" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,257.45	504.76
For Cement Mortar Lining (CML), Add	349.27	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	628.68	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	261.95	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0420 EA 36" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	6,408.34	479.12
For Cement Mortar Lining (CML), Add	568.24	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,022.83	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	426.18	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0421 EA 36" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,324.73	536.91
For Cement Mortar Lining (CML), Add	451.12	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	812.02	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	338.34	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0422 EA 36" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,782.18	577.99
For Cement Mortar Lining (CML), Add	490.64	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	883.16	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	367.98	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0423 EA 42" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	8,294.00	409.91
For Cement Mortar Lining (CML), Add	767.29	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,381.13	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	575.47	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0424 EA 42" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	8,267.57	439.12
For Cement Mortar Lining (CML), Add	760.22	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,368.40	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	570.17	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0425 EA 42" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	8,329.72	497.10
For Cement Mortar Lining (CML), Add	757.65	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,363.78	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	568.24	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
33 14 13 13-0426	EA 42" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,296.08	554.90		
		845.53			
		1,521.96			
		634.15			
33 14 13 13-0427	EA 42" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,690.70	595.97		
		678.77			
		1,221.79			
		509.08			
33 14 13 13-0428	EA 42" x 36" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,051.10	628.13		
		709.94			
		1,277.89			
		532.45			
33 14 13 13-0429	EA 48" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,155.32	438.57		
		1,049.08			
		1,888.35			
		786.81			
33 14 13 13-0430	EA 48" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,823.63	467.77		
		1,011.49			
		1,820.68			
		758.62			
33 14 13 13-0431	EA 48" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,333.12	525.74		
		953.65			
		1,716.58			
		715.24			
33 14 13 13-0432	EA 48" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,663.28	583.53		
		977.91			
		1,760.24			
		733.43			
33 14 13 13-0433	EA 48" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,728.90	624.61		
		1,178.25			
		2,120.85			
		883.69			
33 14 13 13-0434	EA 48" x 36" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,169.45	656.78		
		1,017.43			
		1,831.38			
		763.08			
33 14 13 13-0435	EA 48" x 42" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,253.81	674.75		
		1,123.15			
		2,021.66			
		842.36			
33 14 13 13-0436 Mechanical Joint Ductile Iron Caps (33 14 13 13-0002)					
33 14 13 13-0437	EA 3" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	188.72	96.99		
		4.18			
		7.52			
		3.13			
33 14 13 13-0438	EA 4" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	215.80	113.79		
		4.34			
		7.81			
		3.25			

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0439 EA 6" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	292.64 7.71 13.88 5.78	142.25
33 14 13 13-0440 EA 8" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	374.84 12.85 23.13 9.64	162.58
33 14 13 13-0441 EA 10" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	538.83 16.23 29.21 12.17	248.54
33 14 13 13-0442 EA 12" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	653.39 24.26 43.67 18.19	271.13
33 14 13 13-0443 EA 14" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	819.78 36.79 66.22 27.59	298.24
33 14 13 13-0444 EA 16" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	995.31 49.32 88.78 36.99	331.35
33 14 13 13-0445 EA 18" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,167.31 60.25 108.44 45.18	372.80
33 14 13 13-0446 EA 20" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,424.73 77.92 140.25 58.44	426.01
33 14 13 13-0447 EA 24" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,823.10 107.00 192.59 80.25	497.07
33 14 13 13-0448 EA 30" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,350.55 244.68 440.42 183.51	596.49
33 14 13 13-0449 EA 36" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,579.88 445.02 801.03 333.76	745.60
33 14 13 13-0450 EA 42" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,104.81 674.92 1,214.85 506.19	894.73



Utilities			33	CS
Water Utilities			33 10	
Water Utility Transmission and Distribution			33 14	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0451	EA		48" Mechanical Joint Ductile Iron Caps For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,638.69 813.24 1,463.83 609.93	994.14
33 14 13 13-0452			Mechanical Joint Ductile Iron Plug (33 14 13 13-0002)		
33 14 13 13-0453	EA		3" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	195.15 4.82 8.68 3.62	96.99
33 14 13 13-0454	EA		4" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	225.44 5.30 9.54 3.98	113.79
33 14 13 13-0455	EA		6" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	318.35 10.28 18.51 7.71	142.25
33 14 13 13-0456	EA		8" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	400.55 15.42 27.76 11.57	162.58
33 14 13 13-0457	EA		10" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	643.26 26.67 48.00 20.00	248.54
33 14 13 13-0458	EA		12" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	682.31 27.15 48.87 20.36	271.13
33 14 13 13-0459	EA		14" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,004.54 55.27 99.48 41.45	298.24
33 14 13 13-0460	EA		16" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	572.78 7.07 12.72 5.30	331.35
33 14 13 13-0461	EA		18" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,442.03 87.72 157.89 65.79	372.80
33 14 13 13-0462	EA		20" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,799.06 115.35 207.63 86.51	426.01
33 14 13 13-0463	EA		24" Mechanical Joint Ductile Iron Plug..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,353.26 160.01 288.02 120.01	497.07

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0464 EA 30" Mechanical Joint Ductile Iron Plug.....	4,079.93	596.49
For Cement Mortar Lining (CML), Add	317.62	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	571.71	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	238.21	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0465 EA 36" Mechanical Joint Ductile Iron Plug.....	6,036.14	745.60
For Cement Mortar Lining (CML), Add	490.64	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	883.16	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	367.98	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0466 EA 42" Mechanical Joint Ductile Iron Plug.....	8,162.64	894.73
For Cement Mortar Lining (CML), Add	680.70	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,225.26	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	510.52	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0467 EA 48" Mechanical Joint Ductile Iron Plug.....	10,580.12	994.14
For Cement Mortar Lining (CML), Add	907.39	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,633.29	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	680.54	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0468 Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters (33 14 13 13-0002)		
33 14 13 13-0469 EA 3" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	327.80	147.42
For Cement Mortar Lining (CML), Add	10.44	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	18.80	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.83	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0470 EA 4" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	371.10	170.70
For Cement Mortar Lining (CML), Add	11.25	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	20.24	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.43	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0471 EA 6" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	479.13	213.37
For Cement Mortar Lining (CML), Add	15.58	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	28.05	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.69	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0472 EA 8" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	605.63	243.82
For Cement Mortar Lining (CML), Add	23.62	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	42.51	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	17.71	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0473 EA 10" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	976.13	372.80
For Cement Mortar Lining (CML), Add	41.13	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	74.03	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	30.85	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0474 EA 12" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	1,143.16	406.69
For Cement Mortar Lining (CML), Add	52.70	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	94.85	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	39.52	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0475 EA 14" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	1,514.84	447.36
For Cement Mortar Lining (CML), Add	83.70	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	150.66	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	62.78	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0476 EA 16" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	1,709.03	497.07
For Cement Mortar Lining (CML), Add	95.59	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	172.06	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	71.69	
Note: ANSI/AWWA C151/A21.51		



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST		UNIT COST	
33 14 13 13-0477	EA 18" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,309.25	559.20		
		146.20			
		263.15			
		109.65			
33 14 13 13-0478	EA 20" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,709.82	639.08		
		174.15			
		313.47			
		130.61			
33 14 13 13-0479	EA 24" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,274.47	745.60		
		214.48			
		386.06			
		160.86			
33 14 13 13-0480	EA 30" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,302.97	894.73		
		394.73			
		710.52			
		296.05			
33 14 13 13-0481	EA 36" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,351.26	1,118.40		
		565.67			
		1,018.21			
		424.25			
33 14 13 13-0482	EA 42" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,823.24	1,278.15		
		788.66			
		1,419.59			
		591.50			
33 14 13 13-0483	EA 48" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,136.54	1,491.21		
		987.71			
		1,777.88			
		740.78			
33 14 13 13-0484	Mechanical Joint Ductile Iron Long Sleeves (33 14 13 13-0002)				
33 14 13 13-0485	EA 3" Mechanical Joint Ductile Iron Long Sleeves..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	311.73	147.42		
		8.84			
		15.90			
		6.63			
33 14 13 13-0486	EA 4" Mechanical Joint Ductile Iron Long Sleeves..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	363.07	170.70		
		10.44			
		18.80			
		7.83			
33 14 13 13-0487	EA 6" Mechanical Joint Ductile Iron Long Sleeves..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	498.41	213.37		
		17.51			
		31.52			
		13.13			
33 14 13 13-0488	EA 8" Mechanical Joint Ductile Iron Long Sleeves..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	657.04	243.82		
		28.76			
		51.76			
		21.57			
33 14 13 13-0489	EA 10" Mechanical Joint Ductile Iron Long Sleeves..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	907.05	372.80		
		34.22			
		61.60			
		25.67			

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0490 EA 12" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,078.90 46.27 83.28 34.70	406.69
33 14 13 13-0491 EA 14" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,376.67 69.89 125.79 52.41	447.36
33 14 13 13-0492 EA 16" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,638.34 88.52 159.34 66.39	497.07
33 14 13 13-0493 EA 18" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,979.90 113.26 203.87 84.95	559.20
33 14 13 13-0494 EA 20" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,335.49 136.72 246.09 102.54	639.08
33 14 13 13-0495 EA 24" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,930.66 180.10 324.17 135.07	745.60
33 14 13 13-0496 EA 30" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,127.85 377.22 679.00 282.92	894.73
33 14 13 13-0497 EA 36" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,991.39 529.68 953.43 397.26	1,118.40
33 14 13 13-0498 EA 42" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,019.36 708.49 1,275.29 531.37	1,276.68
33 14 13 13-0499 EA 48" Mechanical Joint Ductile Iron Long Sleeves For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,212.05 995.26 1,791.48 746.45	1,491.21
33 14 13 13-0500 Mechanical Joint Ductile Iron Gland Packs (33 14 13 13-0002) Note: Includes ductile iron retainer gland, gasket, break off torque bolts and all nuts.		
33 14 13 13-0501 Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts (33 14 13 13-0500) Note: Labor installation is included with pipe fittings or valves.		
33 14 13 13-0502 EA 3" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts	32.13	
33 14 13 13-0503 EA 4" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.	64.06	
33 14 13 13-0504 EA 6" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	77.40	
33 14 13 13-0505 EA 8" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	90.75	
33 14 13 13-0506 EA 10" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	125.45	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0507	EA	12" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	133.46	
33 14 13 13-0508	EA	14" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.	218.87	
33 14 13 13-0509	EA	16" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	232.21	
33 14 13 13-0510	EA	18" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	309.62	
33 14 13 13-0511	EA	20" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.	400.37	
33 14 13 13-0512	EA	24" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.	557.85	
33 14 13 13-0513	EA	30" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty (20) 1" diameter plain finish Boltss with nut.	1,331.89	
33 14 13 13-0514	EA	36" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty-four (24) 1" diameter plain finish Boltss with nut.	2,871.97	
33 14 13 13-0515	EA	42" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty-eight (28) 1-1/4" diameter plain finish Boltss with nut.	4,193.19	
33 14 13 13-0516	EA	48" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes thirty-two (32) 1-1/4" diameter plain finish Boltss with nut.	5,146.06	
33 14 13 13-0517		Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts (33 14 13 13-0500) Note: Labor installation is included with pipe fittings or valves.		
33 14 13 13-0518	EA	3" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.	54.62	
33 14 13 13-0519	EA	4" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.	90.75	
33 14 13 13-0520	EA	6" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	114.77	
33 14 13 13-0521	EA	8" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	125.45	
33 14 13 13-0522	EA	10" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	173.49	
33 14 13 13-0523	EA	12" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	181.50	
33 14 13 13-0524	EA	14" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.	274.92	
33 14 13 13-0525	EA	16" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	301.61	
33 14 13 13-0526	EA	18" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	400.37	
33 14 13 13-0527	EA	20" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.	517.81	
33 14 13 13-0528	EA	24" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.	723.33	
33 14 13 13-0529		Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts (33 14 13 13-0500) Note: Labor installation is included with pipe fittings or valves.		
33 14 13 13-0530	EA	3" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.	35.34	
33 14 13 13-0531	EA	4" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.	69.40	
33 14 13 13-0532	EA	6" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	82.74	
33 14 13 13-0533	EA	8" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	98.76	
33 14 13 13-0534	EA	10" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	136.13	
33 14 13 13-0535	EA	12" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	144.13	
33 14 13 13-0536	EA	14" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.	237.55	
33 14 13 13-0537	EA	16" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	250.90	
33 14 13 13-0538	EA	18" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	338.98	
33 14 13 13-0539	EA	20" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.	435.07	
33 14 13 13-0540	EA	24" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.	608.56	
33 14 13 13-0541	EA	30" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty (20) 1" diameter plain finish Boltss with nut.	1,457.34	
33 14 13 13-0542	EA	36" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty-four (24) 1" diameter plain finish Boltss with nut.	3,229.64	
33 14 13 13-0543	EA	42" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes twenty-eight (28) 1-1/4" diameter plain finish Boltss with nut.	4,676.30	
33 14 13 13-0544	EA	48" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts Note: Includes thirty-two (32) 1-1/4" diameter plain finish Boltss with nut.	5,754.62	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 14 13 13-0545		Mechanical Joint Restraints With Accessories For Ductile Iron Pipe (MEGALUG® 1100DEC Series) (33 14 13 13-0002)	
Note: Includes ductile iron retainer gland, gasket, break off torque bolts and all nuts and bolts. Excludes pipe and fitting.			
33 14 13 13-0546	EA	3" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1103DSC).....	204.05 73.95
33 14 13 13-0547	EA	4" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1104DEC).....	232.65 87.58
33 14 13 13-0548	EA	6" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1106DEC).....	288.62 108.39
33 14 13 13-0549	EA	8" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1108DEC).....	360.44 126.49
33 14 13 13-0550	EA	10" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1110DEC).....	523.70 186.40
33 14 13 13-0551	EA	12" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1112DEC).....	646.20 213.07
33 14 13 13-0552	EA	14" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1114DEC).....	753.11 229.33
33 14 13 13-0553	EA	16" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1116DEC).....	929.23 248.54
33 14 13 13-0554	EA	18" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1118DEC).....	1,193.04 298.24
33 14 13 13-0555	EA	20" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1120DEC).....	1,408.85 331.23
33 14 13 13-0556	EA	24" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1124DEC).....	1,831.19 382.18
33 14 13 13-0557	EA	30" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1130DEC).....	3,564.52 458.32
33 14 13 13-0558	EA	36" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1136DEC).....	4,401.56 573.55
33 14 13 13-0559	EA	42" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1142DEC).....	6,502.22 661.79
33 14 13 13-0560	EA	48" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1148DEC).....	8,326.69 851.12
33 14 13 13-0561		Mechanical Joint Ductile Iron Force Balanced Flexible Expansion Joint (FLEX-TEND®) (33 14 13 13-0002)	
33 14 13 13-0562	EA	3" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	4,427.22 60.52
33 14 13 13-0563	EA	4" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	4,609.12 75.65
33 14 13 13-0564	EA	6" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	6,688.09 111.80
33 14 13 13-0565	EA	8" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	9,090.04 132.61
33 14 13 13-0566	EA	10" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	11,461.97 148.78
33 14 13 13-0567	EA	12" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	15,288.85 174.54
33 14 13 13-0568	EA	14" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	18,834.85 195.72
33 14 13 13-0569	EA	16" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	22,282.87 223.68
33 14 13 13-0570	EA	18" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	25,119.33 313.15
33 14 13 13-0571	EA	20" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	33,794.64 391.44
33 14 13 13-0572	EA	24" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	46,827.32 521.93
33 14 13 13-0573		Set Screw Flange Adapter For Ductile Iron Pipe (E-Z Flange 1000DSM Series) (33 14 13 13-0002)	
Note: Includes machined bolts and gasket.			
33 14 13 13-0574	EA	3" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1003DSM).....	202.57 73.95
33 14 13 13-0575	EA	4" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1004DSM).....	260.20 87.58
33 14 13 13-0576	EA	6" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1006DSM).....	336.40 108.39
33 14 13 13-0577	EA	8" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1008DSM).....	383.86 126.49
33 14 13 13-0578	EA	10" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1010DSM).....	674.89 193.98
33 14 13 13-0579	EA	12" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1012DSM).....	763.75 221.72
33 14 13 13-0580		Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 2100 Series) (33 14 13 13-0002)	
Note: Includes nuts, bolts and gasket.			
33 14 13 13-0581	EA	3" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210300)).....	296.16 73.95
33 14 13 13-0582	EA	4" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210400).....	368.48 87.58
33 14 13 13-0583	EA	6" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210600).....	510.49 108.39
33 14 13 13-0584	EA	8" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210800).....	738.87 126.49
33 14 13 13-0585	EA	10" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211000).....	1,070.15 193.98
33 14 13 13-0586	EA	12" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211200).....	1,331.06 221.72
33 14 13 13-0587	EA	14" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211400).....	2,053.59 238.65
33 14 13 13-0588	EA	16" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211600).....	2,879.99 258.64
33 14 13 13-0589	EA	18" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211800).....	3,257.01 310.36
33 14 13 13-0590	EA	20" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 212000).....	3,597.75 344.69
33 14 13 13-0591	EA	24" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 212400).....	4,352.91 397.70
33 14 13 13-0592	EA	30" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 213000).....	5,601.18 476.94
33 14 13 13-0593	EA	36" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 213600).....	8,369.06 596.85
33 14 13 13-0594	EA	42" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 214200).....	21,852.42 688.66
33 14 13 13-0595	EA	48" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 214800).....	27,989.74 885.70
33 14 13 13-0596		Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Piping (33 14 13 13-0001)	
Note: . See CSI section 33 14 13 13-0500 for bolts and gaskets.			
33 14 13 13-0597		Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow (33 14 13 13-0596)	
33 14 13 13-0598	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	406.16 42.20
33 14 13 13-0599	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	486.09 50.55
33 14 13 13-0600	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	753.88 74.06
33 14 13 13-0601	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	1,028.86 88.17
33 14 13 13-0602	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	1,409.79 99.41
33 14 13 13-0603	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	1,785.99 116.36



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0604 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	2,533.62	131.04
33 14 13 13-0605 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	3,072.76	149.12
33 14 13 13-0606 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	3,717.36	209.00
33 14 13 13-0607 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	4,633.48	260.96
33 14 13 13-0608 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	6,547.97	347.95
33 14 13 13-0609 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	10,456.44	372.80
33 14 13 13-0610 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	15,376.34	387.49
33 14 13 13-0611 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	25,304.78	447.36
33 14 13 13-0612 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow	33,085.24	475.61
33 14 13 13-0613 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow (33 14 13 13-0596)		
33 14 13 13-0614 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	388.49	42.20
33 14 13 13-0615 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	455.57	50.55
33 14 13 13-0616 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	700.86	74.06
33 14 13 13-0617 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	946.93	88.17
33 14 13 13-0618 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,236.28	99.41
33 14 13 13-0619 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	1,630.16	116.36
33 14 13 13-0620 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	2,199.45	131.04
33 14 13 13-0621 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	2,632.57	149.12
33 14 13 13-0622 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	3,118.11	209.00
33 14 13 13-0623 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	3,786.82	260.96
33 14 13 13-0624 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	4,991.21	347.95
33 14 13 13-0625 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	9,143.88	372.80
33 14 13 13-0626 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	12,624.30	387.49
33 14 13 13-0627 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	18,740.37	447.36
33 14 13 13-0628 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow	23,976.05	475.61
33 14 13 13-0629 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow (33 14 13 13-0596)		
33 14 13 13-0630 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	303.34	42.20
33 14 13 13-0631 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	450.75	50.55
33 14 13 13-0632 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	681.58	74.06
33 14 13 13-0633 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	940.50	88.17
33 14 13 13-0634 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,234.68	99.41
33 14 13 13-0635 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,536.98	116.36
33 14 13 13-0636 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	2,212.31	131.04
33 14 13 13-0637 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	2,574.73	149.12
33 14 13 13-0638 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	3,103.65	209.00
33 14 13 13-0639 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	3,920.16	260.96
33 14 13 13-0640 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	4,885.18	347.95
33 14 13 13-0641 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	8,142.99	372.80
33 14 13 13-0642 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	11,098.07	387.49
33 14 13 13-0643 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	15,866.24	447.36
33 14 13 13-0644 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	20,301.84	475.61
33 14 13 13-0645 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow (33 14 13 13-0596)		
33 14 13 13-0646 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	303.34	42.20
33 14 13 13-0647 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	539.11	50.55
33 14 13 13-0648 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	688.01	74.06
33 14 13 13-0649 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	911.59	88.17
33 14 13 13-0650 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,231.46	99.41
33 14 13 13-0651 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,493.60	116.36
33 14 13 13-0652 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	2,381.00	131.04
33 14 13 13-0653 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	2,653.45	149.12
33 14 13 13-0654 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	3,559.91	209.00
33 14 13 13-0655 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	3,782.00	260.96
33 14 13 13-0656 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	4,886.78	347.95
33 14 13 13-0657 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	8,249.03	372.80
33 14 13 13-0658 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	10,794.43	387.49
33 14 13 13-0659 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	15,432.47	447.36
33 14 13 13-0660 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	20,186.17	475.61
33 14 13 13-0661 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow (33 14 13 13-0596)		
33 14 13 13-0662 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	356.35	42.20
33 14 13 13-0663 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	523.04	50.55
33 14 13 13-0664 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	814.93	74.06
33 14 13 13-0665 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	1,105.98	88.17
33 14 13 13-0666 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	1,522.25	99.41

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0667 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	1,909.70	116.36
33 14 13 13-0668 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	3,422.05	131.04
33 14 13 13-0669 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	5,333.19	149.12
33 14 13 13-0670 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	6,099.89	209.00
33 14 13 13-0671 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	7,033.68	260.96
33 14 13 13-0672 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	7,614.72	347.95
33 14 13 13-0673 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow (33 14 13 13-0596)		
33 14 13 13-0674 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	356.35	42.20
33 14 13 13-0675 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	461.98	50.55
33 14 13 13-0676 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	726.57	74.06
33 14 13 13-0677 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	1,025.65	88.17
33 14 13 13-0678 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	1,359.99	99.41
33 14 13 13-0679 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	1,768.32	116.36
33 14 13 13-0680 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	2,353.68	131.04
33 14 13 13-0681 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	2,826.96	149.12
33 14 13 13-0682 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	5,280.54	209.00
33 14 13 13-0683 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	5,546.00	260.96
33 14 13 13-0684 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	5,786.46	347.95
33 14 13 13-0685 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee (33 14 13 13-0596)		
33 14 13 13-0686 EA 3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	502.39	63.32
33 14 13 13-0687 EA 4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	548.36	71.39
33 14 13 13-0688 EA 4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	578.76	74.06
33 14 13 13-0689 EA 6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	823.43	93.88
33 14 13 13-0690 EA 6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	891.95	97.58
33 14 13 13-0691 EA 6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	941.72	109.33
33 14 13 13-0692 EA 8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,093.82	112.86
33 14 13 13-0693 EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,183.75	124.61
33 14 13 13-0694 EA 8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,301.54	132.84
33 14 13 13-0695 EA 10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,467.21	123.14
33 14 13 13-0696 EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,466.48	134.44
33 14 13 13-0697 EA 10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,588.63	142.35
33 14 13 13-0698 EA 10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,713.61	149.12
33 14 13 13-0699 EA 12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,764.52	137.82
33 14 13 13-0700 EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,781.46	149.12
33 14 13 13-0701 EA 12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,926.10	157.02
33 14 13 13-0702 EA 12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,218.17	163.80
33 14 13 13-0703 EA 12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,224.64	171.71
33 14 13 13-0704 EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,517.69	173.98
33 14 13 13-0705 EA 14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,723.40	181.89
33 14 13 13-0706 EA 14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,301.43	188.66
33 14 13 13-0707 EA 14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,484.63	196.57
33 14 13 13-0708 EA 14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,231.83	209.00
33 14 13 13-0709 EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,012.01	209.00
33 14 13 13-0710 EA 16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,174.44	215.78
33 14 13 13-0711 EA 16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,803.87	223.68
33 14 13 13-0712 EA 16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,570.98	230.46
33 14 13 13-0713 EA 16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,651.61	242.89
33 14 13 13-0714 EA 16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,213.61	260.96
33 14 13 13-0715 EA 18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,953.70	267.74
33 14 13 13-0716 EA 18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,169.03	274.52
33 14 13 13-0717 EA 18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,441.82	281.30
33 14 13 13-0718 EA 18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,694.10	289.21
33 14 13 13-0719 EA 18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,823.66	301.63
33 14 13 13-0720 EA 18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,153.59	318.57
33 14 13 13-0721 EA 18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,752.10	347.95
33 14 13 13-0722 EA 20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,555.13	382.97
33 14 13 13-0723 EA 20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,632.31	390.87
33 14 13 13-0724 EA 20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,086.63	397.65
33 14 13 13-0725 EA 20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,335.70	405.56



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
33 14 13 13-0726	EA	20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,389.73		417.99
33 14 13 13-0727	EA	20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,324.46		434.94
33 14 13 13-0728	EA	20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,795.34		464.30
33 14 13 13-0729	EA	20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,810.00		521.93
33 14 13 13-0730	EA	24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,533.55		498.20
33 14 13 13-0731	EA	24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,586.64		507.24
33 14 13 13-0732	EA	24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,687.52		512.89
33 14 13 13-0733	EA	24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,836.97		520.79
33 14 13 13-0734	EA	24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,631.63		533.22
33 14 13 13-0735	EA	24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,916.60		550.16
33 14 13 13-0736	EA	24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	8,499.93		579.54
33 14 13 13-0737	EA	24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	8,780.57		638.28
33 14 13 13-0738	EA	24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	8,249.61		695.90
33 14 13 13-0739	EA	30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	9,648.71		580.67
33 14 13 13-0740	EA	30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	9,190.91		588.58
33 14 13 13-0741	EA	30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	9,711.10		595.36
33 14 13 13-0742	EA	30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,233.28		603.27
33 14 13 13-0743	EA	30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,974.93		615.69
33 14 13 13-0744	EA	30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	11,775.59		819.03
33 14 13 13-0745	EA	30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	11,726.67		662.01
33 14 13 13-0746	EA	30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	11,719.72		719.62
33 14 13 13-0747	EA	30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	12,213.75		777.23
33 14 13 13-0748	EA	30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	14,566.95		819.03
33 14 13 13-0749	EA	36" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	9,964.72		652.97
33 14 13 13-0750	EA	36" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	11,142.00		659.75
33 14 13 13-0751	EA	36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	11,778.25		667.66
33 14 13 13-0752	EA	36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	12,229.12		680.08
33 14 13 13-0753	EA	36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	12,682.75		697.02
33 14 13 13-0754	EA	36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	13,555.99		726.40
33 14 13 13-0755	EA	36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	14,474.43		784.01
33 14 13 13-0756	EA	36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	16,035.23		841.63
33 14 13 13-0757	EA	36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	18,102.43		915.06
33 14 13 13-0758	EA	36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	20,846.98		915.06
33 14 13 13-0759	EA	42" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	23,701.99		703.80
33 14 13 13-0760	EA	42" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	24,178.56		715.11
33 14 13 13-0761	EA	42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	26,585.78		733.18
33 14 13 13-0762	EA	42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	30,296.19		762.55
33 14 13 13-0763	EA	42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	30,384.04		820.17
33 14 13 13-0764	EA	42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	25,153.91		877.78
33 14 13 13-0765	EA	42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	25,606.54		919.58
33 14 13 13-0766	EA	42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	31,705.57		951.21
33 14 13 13-0767	EA	42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	33,416.47		969.29
33 14 13 13-0768	EA	48" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	27,634.91		760.29
33 14 13 13-0769	EA	48" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	28,130.74		772.72
33 14 13 13-0770	EA	48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	28,835.01		790.79
33 14 13 13-0771	EA	48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	29,552.41		819.03
33 14 13 13-0772	EA	48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	30,318.23		877.78
33 14 13 13-0773	EA	48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	30,495.77		935.40
33 14 13 13-0774	EA	48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	32,741.32		976.07
33 14 13 13-0775	EA	48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	26,352.56		1,008.83
33 14 13 13-0776	EA	48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	33,024.53		1,026.90
33 14 13 13-0777	EA	48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	43,968.44		1,055.15

33 14 13 13-0778 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Laterals) (33 14 13 13-0596)

33 14 13 13-0779	EA	3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	563.48	70.76	
33 14 13 13-0780	EA	4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	619.71	70.76	
33 14 13 13-0781	EA	4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	726.57	74.06	
33 14 13 13-0782	EA	6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	802.55	93.88	
33 14 13 13-0783	EA	6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	895.16	97.58	
33 14 13 13-0784	EA	6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,094.34	109.33	
33 14 13 13-0785	EA	8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,436.01	112.86	
33 14 13 13-0786	EA	8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,325.13	124.61	
33 14 13 13-0787	EA	8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	1,489.51	132.84	
33 14 13 13-0788	EA	10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,108.23	123.14	
33 14 13 13-0789	EA	10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,195.85	134.44	
33 14 13 13-0790	EA	10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,456.17	142.35	
33 14 13 13-0791	EA	10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,680.76	149.12	
33 14 13 13-0792	EA	12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,572.62	137.82	
33 14 13 13-0793	EA	12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	2,917.30	149.12	
33 14 13 13-0794	EA	12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,452.34	157.02	
33 14 13 13-0795	EA	12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,455.22	163.80	
33 14 13 13-0796	EA	12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,188.58	171.71	
33 14 13 13-0797	EA	14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,790.09	173.98	
33 14 13 13-0798	EA	14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,357.27	181.89	
33 14 13 13-0799	EA	14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,741.80	188.66	
33 14 13 13-0800	EA	14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,157.94	196.57	
33 14 13 13-0801	EA	14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,999.92	209.00	
33 14 13 13-0802	EA	16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	3,945.52	209.00	
33 14 13 13-0803	EA	16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	4,358.48	215.78	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0804 EA 16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,174.27	223.68
33 14 13 13-0805 EA 16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,338.20	230.46
33 14 13 13-0806 EA 16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,613.22	242.89
33 14 13 13-0807 EA 16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,253.94	260.96
33 14 13 13-0808 EA 18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	5,592.39	267.74
33 14 13 13-0809 EA 18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,032.64	274.52
33 14 13 13-0810 EA 18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,458.06	281.30
33 14 13 13-0811 EA 18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,919.18	289.21
33 14 13 13-0812 EA 18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,989.30	301.63
33 14 13 13-0813 EA 18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,068.61	318.57
33 14 13 13-0814 EA 18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,404.37	347.95
33 14 13 13-0815 EA 20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,582.61	382.97
33 14 13 13-0816 EA 20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	6,727.26	390.87
33 14 13 13-0817 EA 20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,412.93	397.65
33 14 13 13-0818 EA 20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,092.56	405.56
33 14 13 13-0819 EA 20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,167.48	417.99
33 14 13 13-0820 EA 20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,254.83	434.94
33 14 13 13-0821 EA 20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	9,593.96	464.30
33 14 13 13-0822 EA 20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	9,026.34	521.93
33 14 13 13-0823 EA 24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	7,977.13	498.20
33 14 13 13-0824 EA 24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	8,080.02	506.11
33 14 13 13-0825 EA 24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	9,035.59	512.89
33 14 13 13-0826 EA 24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	9,469.40	520.79
33 14 13 13-0827 EA 24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	10,983.80	533.22
33 14 13 13-0828 EA 24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	12,235.92	550.16
33 14 13 13-0829 EA 24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	13,718.04	579.54
33 14 13 13-0830 EA 24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	15,071.86	638.28
33 14 13 13-0831 EA 24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	13,274.93	695.90
33 14 13 13-0832 EA 30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	16,810.76	580.67
33 14 13 13-0833 EA 30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	18,894.53	588.58
33 14 13 13-0834 EA 30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	20,012.36	595.36
33 14 13 13-0835 EA 30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	21,132.19	603.27
33 14 13 13-0836 EA 30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	22,718.88	615.69
33 14 13 13-0837 EA 30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	24,424.04	632.63
33 14 13 13-0838 EA 30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	25,030.59	662.01
33 14 13 13-0839 EA 30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	25,904.04	719.62
33 14 13 13-0840 EA 30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	27,124.23	777.23
33 14 13 13-0841 EA 30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	29,416.38	819.03
33 14 13 13-0842 EA 36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	32,451.46	667.66
33 14 13 13-0843 EA 36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	33,734.53	680.08
33 14 13 13-0844 EA 36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	35,009.12	697.02
33 14 13 13-0845 EA 36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	37,471.24	726.40
33 14 13 13-0846 EA 36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	39,986.60	784.01
33 14 13 13-0847 EA 36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	44,376.55	841.63
33 14 13 13-0848 EA 36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	49,758.09	883.43
33 14 13 13-0849 EA 36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	59,489.57	915.06
33 14 13 13-0850 EA 42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	52,336.08	820.17
33 14 13 13-0851 EA 42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	53,614.12	877.78
33 14 13 13-0852 EA 42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	57,284.69	919.58
33 14 13 13-0853 EA 42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	65,586.31	951.21
33 14 13 13-0854 EA 42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	77,474.77	969.29
33 14 13 13-0855 EA 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	51,577.84	877.78
33 14 13 13-0856 EA 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	58,461.16	935.40
33 14 13 13-0857 EA 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	62,322.91	976.07
33 14 13 13-0858 EA 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	71,124.17	1,008.83
33 14 13 13-0859 EA 48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	93,222.33	1,026.90
33 14 13 13-0860 EA 48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral)	102,402.24	1,055.15

33 14 13 13-0861 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee (33 14 13 13-0596)

33 14 13 13-0862 EA 6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	1,001.16	109.33
33 14 13 13-0863 EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	1,244.80	124.61
33 14 13 13-0864 EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	1,787.79	134.44
33 14 13 13-0865 EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	2,057.79	149.12
33 14 13 13-0866 EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	2,721.73	173.98
33 14 13 13-0867 EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	3,315.75	209.00
33 14 13 13-0868 EA 18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	3,913.54	267.74
33 14 13 13-0869 EA 20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	5,260.41	382.97
33 14 13 13-0870 EA 24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	6,138.43	498.20
33 14 13 13-0871 EA 30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee	11,157.27	580.67



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0872	Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross (33 14 13 13-0596)		
33 14 13 13-0873	EA 3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	560.06	84.42
33 14 13 13-0874	EA 4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	699.88	91.86
33 14 13 13-0875	EA 4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	875.28	92.87
33 14 13 13-0876	EA 6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	927.94	115.14
33 14 13 13-0877	EA 6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,086.16	124.61
33 14 13 13-0878	EA 6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,199.06	155.18
33 14 13 13-0879	EA 8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,153.62	136.37
33 14 13 13-0880	EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,359.69	166.94
33 14 13 13-0881	EA 8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,345.21	178.69
33 14 13 13-0882	EA 10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,359.10	144.60
33 14 13 13-0883	EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,523.16	173.98
33 14 13 13-0884	EA 10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,810.03	185.27
33 14 13 13-0885	EA 10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,960.89	198.83
33 14 13 13-0886	EA 12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	1,747.40	157.02
33 14 13 13-0887	EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,022.33	186.40
33 14 13 13-0888	EA 12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,195.12	197.69
33 14 13 13-0889	EA 12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,561.26	211.25
33 14 13 13-0890	EA 12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	2,925.47	223.68
33 14 13 13-0891	EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,025.74	204.47
33 14 13 13-0892	EA 14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,588.94	215.78
33 14 13 13-0893	EA 14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,675.54	230.46
33 14 13 13-0894	EA 14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,879.08	241.76
33 14 13 13-0895	EA 14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	4,299.31	260.96
33 14 13 13-0896	EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,386.57	231.59
33 14 13 13-0897	EA 16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,875.86	241.76
33 14 13 13-0898	EA 16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	4,675.76	256.45
33 14 13 13-0899	EA 16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	5,229.55	268.87
33 14 13 13-0900	EA 16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	6,355.06	286.95
33 14 13 13-0901	EA 16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	6,632.34	312.93
33 14 13 13-0902	EA 18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	5,853.87	273.39
33 14 13 13-0903	EA 18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	6,193.75	284.68
33 14 13 13-0904	EA 18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	6,484.38	298.24
33 14 13 13-0905	EA 18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,044.58	310.66
33 14 13 13-0906	EA 18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	8,255.25	328.75
33 14 13 13-0907	EA 18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	8,781.56	354.73
33 14 13 13-0908	EA 18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	9,168.37	397.65
33 14 13 13-0909	EA 20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,360.27	343.43
33 14 13 13-0910	EA 20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,703.35	353.60
33 14 13 13-0911	EA 20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,937.75	368.29
33 14 13 13-0912	EA 20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	8,493.15	380.71
33 14 13 13-0913	EA 20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	8,630.62	398.78
33 14 13 13-0914	EA 20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	10,501.61	424.77
33 14 13 13-0915	EA 20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	10,888.42	466.57
33 14 13 13-0916	EA 20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	11,748.98	536.61
33 14 13 13-0917	EA 24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	10,077.20	429.29
33 14 13 13-0918	EA 24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	10,311.39	440.59
33 14 13 13-0919	EA 24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	10,707.69	454.14
33 14 13 13-0920	EA 24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	11,049.42	466.57
33 14 13 13-0921	EA 24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	11,238.30	484.64
33 14 13 13-0922	EA 24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	11,656.97	510.62
33 14 13 13-0923	EA 24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	15,546.08	553.56
33 14 13 13-0924	EA 24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	16,350.40	622.47
33 14 13 13-0925	EA 24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	17,990.94	708.33
33 14 13 13-0926	EA 30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	15,641.29	570.50
33 14 13 13-0927	EA 30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	15,951.18	584.05
33 14 13 13-0928	EA 30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	16,255.97	596.49
33 14 13 13-0929	EA 30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	16,615.13	614.56
33 14 13 13-0930	EA 30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	17,025.76	641.67
33 14 13 13-0931	EA 30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	17,500.94	683.47
33 14 13 13-0932	EA 30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	18,098.02	752.38
33 14 13 13-0933	EA 30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	23,338.86	839.37
33 14 13 13-0934	EA 30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	26,834.40	969.29
33 14 13 13-0935	EA 36" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	21,931.40	617.95
33 14 13 13-0936	EA 36" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	22,238.07	631.50
33 14 13 13-0937	EA 36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	22,502.69	643.93
33 14 13 13-0938	EA 36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	22,816.88	663.14
33 14 13 13-0939	EA 36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	23,184.13	689.12
33 14 13 13-0940	EA 36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	23,615.94	730.91
33 14 13 13-0941	EA 36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	24,172.85	800.96
33 14 13 13-0942	EA 36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	25,162.73	886.82
33 14 13 13-0943	EA 36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	33,995.26	1,016.74
33 14 13 13-0944	EA 36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	37,382.31	1,065.31
33 14 13 13-0945	EA 42" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	29,526.85	672.17
33 14 13 13-0946	EA 42" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	30,141.46	690.24
33 14 13 13-0947	EA 42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	30,497.46	717.36
33 14 13 13-0948	EA 42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	30,990.32	759.16
33 14 13 13-0949	EA 42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	31,879.79	829.21

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0950 EA 42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	33,766.13	915.06
33 14 13 13-0951 EA 42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	41,056.37	1,044.97
33 14 13 13-0952 EA 42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	53,780.75	1,092.42
33 14 13 13-0953 EA 42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	57,657.65	1,120.67
33 14 13 13-0954 EA 48" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	39,995.04	782.89
33 14 13 13-0955 EA 48" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	40,257.84	800.96
33 14 13 13-0956 EA 48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	40,609.03	826.94
33 14 13 13-0957 EA 48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	40,986.19	868.75
33 14 13 13-0958 EA 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	41,485.28	938.78
33 14 13 13-0959 EA 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	42,357.87	1,024.64
33 14 13 13-0960 EA 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	44,788.28	1,154.56
33 14 13 13-0961 EA 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	55,003.21	1,203.14
33 14 13 13-0962 EA 48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	70,905.21	1,231.37
33 14 13 13-0963 EA 48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	75,496.62	1,340.96
33 14 13 13-0964 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducers (33 14 13 13-0996)		
33 14 13 13-0965 EA 4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	398.94	45.93
33 14 13 13-0966 EA 6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	557.95	57.57
33 14 13 13-0967 EA 6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	613.40	61.13
33 14 13 13-0968 EA 8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	805.21	69.36
33 14 13 13-0969 EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	837.18	81.12
33 14 13 13-0970 EA 10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	987.05	73.43
33 14 13 13-0971 EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,032.89	84.72
33 14 13 13-0972 EA 10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,074.73	92.63
33 14 13 13-0973 EA 12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,141.32	81.34
33 14 13 13-0974 EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,262.69	92.63
33 14 13 13-0975 EA 12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,283.63	99.41
33 14 13 13-0976 EA 12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,341.14	107.32
33 14 13 13-0977 EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,975.42	105.06
33 14 13 13-0978 EA 14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,986.72	111.84
33 14 13 13-0979 EA 14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,729.34	119.75
33 14 13 13-0980 EA 14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	1,764.74	126.53
33 14 13 13-0981 EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,368.02	122.01
33 14 13 13-0982 EA 16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,297.38	129.92
33 14 13 13-0983 EA 16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,157.28	136.69
33 14 13 13-0984 EA 16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,131.62	143.47
33 14 13 13-0985 EA 16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,410.59	155.90
33 14 13 13-0986 EA 18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,574.58	158.16
33 14 13 13-0987 EA 18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,903.60	166.07
33 14 13 13-0988 EA 18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,773.51	172.84
33 14 13 13-0989 EA 18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	3,315.96	185.27
33 14 13 13-0990 EA 18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	2,903.66	203.35
33 14 13 13-0991 EA 20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	3,428.76	216.90
33 14 13 13-0992 EA 20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	3,455.74	223.68
33 14 13 13-0993 EA 20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	3,139.30	231.59
33 14 13 13-0994 EA 20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	3,137.11	244.01
33 14 13 13-0995 EA 20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	3,060.59	260.96
33 14 13 13-0996 EA 20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	3,620.55	290.33



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR				TOTAL DIRECT		DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST	UNIT COST
33 14 13 13-0997	EA	24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	4,319.33		289.21	
33 14 13 13-0998	EA	24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	4,383.01		301.63	
33 14 13 13-0999	EA	24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	4,460.72		318.57	
33 14 13 13-1000	EA	24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	4,392.51		347.95	
33 14 13 13-1001	EA	24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	5,066.76		405.56	
33 14 13 13-1002	EA	30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	7,880.67		359.24	
33 14 13 13-1003	EA	30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	8,215.70		388.62	
33 14 13 13-1004	EA	30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	7,914.76		447.36	
33 14 13 13-1005	EA	30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	6,707.46		504.98	
33 14 13 13-1006	EA	36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	10,394.22		478.99	
33 14 13 13-1007	EA	36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	9,660.84		536.61	
33 14 13 13-1008	EA	36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	10,314.29		578.41	
33 14 13 13-1009	EA	42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	15,380.54		410.09	
33 14 13 13-1010	EA	42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	15,289.85		439.45	
33 14 13 13-1011	EA	42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	15,327.89		497.07	
33 14 13 13-1012	EA	42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	15,927.95		554.69	
33 14 13 13-1013	EA	42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	13,014.84		596.49	
33 14 13 13-1014	EA	42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	13,619.44		628.12	
33 14 13 13-1015	EA	48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	19,384.12		438.32	
33 14 13 13-1016	EA	48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	18,756.83		467.70	
33 14 13 13-1017	EA	48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	17,813.26		525.31	
33 14 13 13-1018	EA	48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	18,333.00		584.05	
33 14 13 13-1019	EA	48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	21,969.83		624.72	
33 14 13 13-1020	EA	48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	18,998.22		656.36	
33 14 13 13-1021	EA	48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	20,895.50		674.44	
33 14 13 13-1022		Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps (33 14 13 13-0596)				
33 14 13 13-1023	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	367.05		96.99	
33 14 13 13-1024	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	442.32		114.03	
33 14 13 13-1025	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	646.09		142.25	
33 14 13 13-1026	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	864.85		162.23	
33 14 13 13-1027	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	1,155.75		248.54	
33 14 13 13-1028	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	1,455.06		271.13	
33 14 13 13-1029	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	1,653.59		298.24	
33 14 13 13-1030	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	2,010.65		331.00	
33 14 13 13-1031	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	2,354.56		372.80	
33 14 13 13-1032	EA	20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	2,838.50		425.90	
33 14 13 13-1033	EA	24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	3,636.91		497.07	
33 14 13 13-1034	EA	30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	6,582.95		596.49	
33 14 13 13-1035	EA	36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	10,778.71		745.60	
33 14 13 13-1036	EA	42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	15,525.51		894.73	
33 14 13 13-1037	EA	48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps	18,482.79		994.14	
33 14 13 13-1038		Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug (33 14 13 13-0596)				
33 14 13 13-1039	EA	3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	368.66		96.99	
33 14 13 13-1040	EA	4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	458.39		114.03	
33 14 13 13-1041	EA	6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	687.86		142.25	
33 14 13 13-1042	EA	8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	906.62		162.23	
33 14 13 13-1043	EA	10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	1,395.13		248.54	
33 14 13 13-1044	EA	12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	1,509.69		271.13	
33 14 13 13-1045	EA	14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	2,002.21		298.24	
33 14 13 13-1046	EA	16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	2,413.90		331.00	
33 14 13 13-1047	EA	18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug	2,870.26		372.80	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1048 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	3,535.75	425.90
33 14 13 13-1049 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	4,629.76	497.07
33 14 13 13-1050 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	7,954.95	596.49
33 14 13 13-1051 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	11,631.79	745.60
33 14 13 13-1052 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	15,633.15	894.73
33 14 13 13-1053 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	20,765.71	994.14
33 14 13 13-1054 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters (33 14 13 13-0596)		
33 14 13 13-1055 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	501.30	147.42
33 14 13 13-1056 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	661.89	170.47
33 14 13 13-1057 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	909.68	213.96
33 14 13 13-1058 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	1,193.64	243.35
33 14 13 13-1059 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	1,766.56	372.80
33 14 13 13-1060 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	2,107.10	406.69
33 14 13 13-1061 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	2,750.28	447.36
33 14 13 13-1062 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	3,121.20	497.07
33 14 13 13-1063 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	4,089.32	559.20
33 14 13 13-1064 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	4,742.12	639.41
33 14 13 13-1065 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	5,738.93	745.60
33 14 13 13-1066 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	9,010.91	894.73
33 14 13 13-1067 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	12,251.27	1,118.40
33 14 13 13-1068 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	16,654.34	1,277.69
33 14 13 13-1069 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters	20,693.08	1,491.21
33 14 13 13-1070 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves (33 14 13 13-0596)		
33 14 13 13-1071 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	520.58	147.42
33 14 13 13-1072 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	637.79	170.47
33 14 13 13-1073 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	937.00	213.96
33 14 13 13-1074 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	1,267.54	243.35
33 14 13 13-1075 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	1,663.74	372.80
33 14 13 13-1076 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	2,010.70	406.69
33 14 13 13-1077 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	2,544.64	447.36
33 14 13 13-1078 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	3,011.95	497.07
33 14 13 13-1079 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	3,594.50	559.20
33 14 13 13-1080 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	4,184.64	639.41
33 14 13 13-1081 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	5,228.04	745.60
33 14 13 13-1082 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	8,745.83	894.73
33 14 13 13-1083 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	11,366.05	1,118.40
33 14 13 13-1084 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	14,785.30	1,276.57
33 14 13 13-1085 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves	21,938.16	1,491.21
33 14 13 13-1086 Push-On Joint Ductile Iron Piping (33 14 13 13-0001)		
33 14 13 13-1087 Push-On Joint Ductile Iron Pipe (33 14 13 13-1086)		
Note: Conforming to ANSI/AWWA C151/A21.51, federal specification WW-P-421D.		
33 14 13 13-1088 LF 4", Class 50, Push-On Joint Ductile Iron Pipe.....	33.84	9.69
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	13.40	
For Cement Mortar Lining (CML), Add	1.91	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	10.34	
For Fusion Bonded Epoxy Lining (206N), Add	3.45	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.44	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-1.69	
For Class 51, Add	2.79	
For Class 52, Add	6.02	
For Class 53, Add	10.81	
For Class 54, Add	15.40	
For Class 55, Add	17.73	
For Class 56, Add	20.02	



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		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1089	LF	6", Class 50, Push-On Joint Ductile Iron Pipe.....	37.10	10.70
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	14.70	
		For Cement Mortar Lining (CML), Add	2.10	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	11.34	
		For Fusion Bonded Epoxy Lining (206N), Add	3.78	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.58	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	-1.86	
		For Class 51, Add	3.06	
		For Class 52, Add	6.60	
		For Class 53, Add	11.86	
		For Class 54, Add	16.90	
		For Class 55, Add	19.45	
		For Class 56, Add	21.97	
33 14 13 13-1090	LF	8", Class 50, Push-On Joint Ductile Iron Pipe.....	46.35	11.75
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	20.10	
		For Cement Mortar Lining (CML), Add	2.87	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	15.50	
		For Fusion Bonded Epoxy Lining (206N), Add	5.17	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.15	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	-2.32	
		For Class 51, Add	4.13	
		For Class 52, Add	8.91	
		For Class 53, Add	16.05	
		For Class 54, Add	22.89	
		For Class 55, Add	26.32	
		For Class 56, Add	29.70	
33 14 13 13-1091	LF	10", Class 50, Push-On Joint Ductile Iron Pipe.....	65.91	16.83
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	24.29	
		For Cement Mortar Lining (CML), Add	4.05	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	20.25	
		For Fusion Bonded Epoxy Lining (206N), Add	7.29	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.04	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	-3.30	
		For Class 51, Add	5.84	
		For Class 52, Add	12.58	
		For Class 53, Add	22.65	
		For Class 54, Add	32.30	
		For Class 55, Add	37.16	
		For Class 56, Add	41.93	
33 14 13 13-1092	LF	12", Class 50, Push-On Joint Ductile Iron Pipe.....	76.53	18.64
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	24.14	
		For Cement Mortar Lining (CML), Add	4.83	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	19.31	
		For Fusion Bonded Epoxy Lining (206N), Add	8.69	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.62	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	-3.83	
		For Class 51, Add	6.93	
		For Class 52, Add	14.95	
		For Class 53, Add	26.93	
		For Class 54, Add	38.41	
		For Class 55, Add	44.18	
		For Class 56, Add	49.84	
33 14 13 13-1093	LF	14", Class 50, Push-On Joint Ductile Iron Pipe.....	93.28	21.01
		For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	27.08	
		For Cement Mortar Lining (CML), Add	6.15	
		Note: ANSI/AWWA C104/A21.4		
		For 40 Mil Ceramic Epoxy Lining (P401), Add	20.92	
		For Fusion Bonded Epoxy Lining (206N), Add	11.08	
		Note: ANSI/AWWA C104/A21.4		
		For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.62	
		Note: ANSI/AWWA C151/A21.51		
		For >1,000, Deduct	-4.66	
		For Class 51, Add	8.78	
		For Class 52, Add	18.95	
		For Class 53, Add	34.17	
		For Class 54, Add	48.75	
		For Class 55, Add	56.05	
		For Class 56, Add	63.21	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1094 LF 16", Class 50, Push-On Joint Ductile Iron Pipe.....	110.57	23.95
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	30.46	
For Cement Mortar Lining (CML), Add	7.43	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	23.03	
For Fusion Bonded Epoxy Lining (206N), Add	13.37	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.57	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-5.53	
For Class 51, Add	10.58	
For Class 52, Add	22.83	
For Class 53, Add	41.18	
For Class 54, Add	58.76	
For Class 55, Add	67.54	
For Class 56, Add	76.17	
33 14 13 13-1095 LF 18", Class 50, Push-On Joint Ductile Iron Pipe.....	128.65	28.02
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	35.38	
For Cement Mortar Lining (CML), Add	8.63	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	26.75	
For Fusion Bonded Epoxy Lining (206N), Add	15.53	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.47	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-6.43	
For Class 51, Add	12.29	
For Class 52, Add	26.52	
For Class 53, Add	47.83	
For Class 54, Add	68.25	
For Class 55, Add	78.45	
For Class 56, Add	88.47	
33 14 13 13-1096 LF 20", Class 50, Push-On Joint Ductile Iron Pipe.....	148.44	33.56
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	37.09	
For Cement Mortar Lining (CML), Add	9.76	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	27.33	
For Fusion Bonded Epoxy Lining (206N), Add	17.57	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.32	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-7.42	
For Class 51, Add	13.94	
For Class 52, Add	30.08	
For Class 53, Add	54.22	
For Class 54, Add	77.35	
For Class 55, Add	88.93	
For Class 56, Add	100.30	
33 14 13 13-1097 LF 24", Class 50, Push-On Joint Ductile Iron Pipe.....	187.80	41.91
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	38.50	
For Cement Mortar Lining (CML), Add	12.42	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	26.08	
For Fusion Bonded Epoxy Lining (206N), Add	22.36	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	9.32	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-9.39	
For Class 51, Add	17.72	
For Class 52, Add	38.24	
For Class 53, Add	68.94	
For Class 54, Add	98.37	
For Class 55, Add	113.08	
For Class 56, Add	127.54	
33 14 13 13-1098 LF 30", Class 50, Push-On Joint Ductile Iron Pipe.....	222.36	44.74
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	47.92	
For Cement Mortar Lining (CML), Add	15.46	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	27.82	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.59	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-11.12	
For Class 51, Add	21.92	
For Class 52, Add	47.31	
For Class 53, Add	85.38	
For Class 54, Add	121.86	
For Class 55, Add	140.03	
For Class 56, Add	157.89	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1099	LF	36", Class 50, Push-On Joint Ductile Iron Pipe..... For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For >1,000, Deduct For Class 51, Add For Class 52, Add For Class 53, Add For Class 54, Add For Class 55, Add For Class 56, Add	275.57 63.08 20.35 36.63 15.26 -13.78 28.64 61.85 111.75 159.56 183.27 206.56	47.56
33 14 13 13-1100	LF	42", Class 50, Push-On Joint Ductile Iron Pipe..... For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For >1,000, Deduct For Class 51, Add For Class 52, Add For Class 53, Add For Class 54, Add For Class 55, Add For Class 56, Add	335.73 80.44 25.95 46.71 19.46 -16.79 36.32 78.48 141.91 202.68 232.72 262.21	50.38
33 14 13 13-1101	LF	48", Class 50, Push-On Joint Ductile Iron Pipe..... For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For >1,000, Deduct For Class 51, Add For Class 52, Add For Class 53, Add For Class 54, Add For Class 55, Add For Class 56, Add	404.04 100.28 32.35 58.23 24.26 -20.20 45.10 97.48 176.38 251.95 289.22 325.81	53.10
33 14 13 13-1102	LF	54", Class 50, Push-On Joint Ductile Iron Pipe..... For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51 For >1,000, Deduct For Class 51, Add For Class 52, Add For Class 53, Add For Class 54, Add For Class 55, Add For Class 56, Add	512.02 132.46 42.73 76.91 32.05 -25.60 59.30 128.21 232.17 331.72 380.68 428.74	55.92
33 14 13 13-1103		Push-On Joint Ductile Iron 90 Degree Elbow (33 14 13 13-1086)		
33 14 13 13-1104	EA	4" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	166.19 10.88 19.59 8.16	37.86
33 14 13 13-1105	EA	6" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	241.50 15.69 28.23 11.76	55.84
33 14 13 13-1106	EA	8" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	318.10 21.76 39.17 16.32	66.30

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1107 EA 10" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	482.68 32.89 59.21 24.67	74.34
33 14 13 13-1108 EA 12" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	615.44 43.52 78.34 32.64	87.21
33 14 13 13-1109 EA 14" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,156.72 95.45 171.80 71.58	97.83
33 14 13 13-1110 EA 16" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,308.59 107.75 193.95 80.81	111.84
33 14 13 13-1111 EA 18" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,023.92 170.04 306.08 127.53	156.58
33 14 13 13-1112 EA 20" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,288.78 189.41 340.94 142.06	197.36
33 14 13 13-1113 EA 24" 90 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,858.09 236.48 425.66 177.36	246.72
33 14 13 13-1114 Push-On Joint Ductile Iron 45 Degree Elbow (33 14 13 13-1086)		
33 14 13 13-1115 EA 4" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	141.44 8.41 15.13 6.31	37.86
33 14 13 13-1116 EA 6" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	208.23 12.36 22.25 9.27	55.84
33 14 13 13-1117 EA 8" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	282.30 18.18 32.72 13.63	66.30
33 14 13 13-1118 EA 10" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	433.26 27.95 50.31 20.96	74.34
33 14 13 13-1119 EA 12" 45 Degree Elbow, Push-On Joint Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	552.46 37.22 67.00 27.92	87.21



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		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST		
33 14 13 13-1120	EA 14" 45 Degree Elbow, Push-On Joint Ductile Iron	763.46		97.83	
	For Cement Mortar Lining (CML), Add	56.12			
	Note: ANSI/AWWA C104/A21.4				
	For Fusion Bonded Epoxy Lining (206N), Add	101.01			
	Note: ANSI/AWWA C104/A21.4				
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	42.09			
	Note: ANSI/AWWA C151/A21.51				
33 14 13 13-1121	EA 16" 45 Degree Elbow, Push-On Joint Ductile Iron	1,102.68		111.84	
	For Cement Mortar Lining (CML), Add	87.16			
	Note: ANSI/AWWA C104/A21.4				
	For Fusion Bonded Epoxy Lining (206N), Add	156.89			
	Note: ANSI/AWWA C104/A21.4				
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	65.37			
	Note: ANSI/AWWA C151/A21.51				
33 14 13 13-1122	EA 18" 45 Degree Elbow, Push-On Joint Ductile Iron	1,291.38		156.58	
	For Cement Mortar Lining (CML), Add	96.79			
	Note: ANSI/AWWA C104/A21.4				
	For Fusion Bonded Epoxy Lining (206N), Add	174.22			
	Note: ANSI/AWWA C104/A21.4				
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	72.59			
	Note: ANSI/AWWA C151/A21.51				
33 14 13 13-1123	EA 20" 45 Degree Elbow, Push-On Joint Ductile Iron	1,787.24		197.36	
	For Cement Mortar Lining (CML), Add	139.26			
	Note: ANSI/AWWA C104/A21.4				
	For Fusion Bonded Epoxy Lining (206N), Add	250.66			
	Note: ANSI/AWWA C104/A21.4				
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	104.44			
	Note: ANSI/AWWA C151/A21.51				
33 14 13 13-1124	EA 24" 45 Degree Elbow, Push-On Joint Ductile Iron	2,219.30		246.72	
	For Cement Mortar Lining (CML), Add	172.60			
	Note: ANSI/AWWA C104/A21.4				
	For Fusion Bonded Epoxy Lining (206N), Add	310.67			
	Note: ANSI/AWWA C104/A21.4				
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	129.45			
	Note: ANSI/AWWA C151/A21.51				
33 14 13 13-1125	Push-On Joint Ductile Iron Tee (33 14 13 13-1086)				
33 14 13 13-1126	EA 4" Tee, Push-On Joint Ductile Iron	252.90		55.84	
	For Cement Mortar Lining (CML), Add	16.83			
	Note: ANSI/AWWA C104/A21.4				
	For Fusion Bonded Epoxy Lining (206N), Add	30.29			
	Note: ANSI/AWWA C104/A21.4				
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	12.62			
	Note: ANSI/AWWA C151/A21.51				
33 14 13 13-1127	EA 6" Tee, Push-On Joint Ductile Iron	354.62		82.06	
	For Cement Mortar Lining (CML), Add	23.02			
	Note: ANSI/AWWA C104/A21.4				
	For Fusion Bonded Epoxy Lining (206N), Add	41.44			
	Note: ANSI/AWWA C104/A21.4				
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	17.27			
	Note: ANSI/AWWA C151/A21.51				
33 14 13 13-1128	EA 8" Tee, Push-On Joint Ductile Iron	477.24		99.46	
	For Cement Mortar Lining (CML), Add	32.64			
	Note: ANSI/AWWA C104/A21.4				
	For Fusion Bonded Epoxy Lining (206N), Add	58.75			
	Note: ANSI/AWWA C104/A21.4				
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	24.48			
	Note: ANSI/AWWA C151/A21.51				
33 14 13 13-1129	EA 10" Tee, Push-On Joint Ductile Iron.....	683.08		112.97	
	For Cement Mortar Lining (CML), Add	51.36			
	Note: ANSI/AWWA C104/A21.4				
	For Fusion Bonded Epoxy Lining (206N), Add	92.45			
	Note: ANSI/AWWA C104/A21.4				
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	38.52			
	Note: ANSI/AWWA C151/A21.51				
33 14 13 13-1130	EA 12" Tee, Push-On Joint Ductile Iron.....	845.41		130.26	
	For Cement Mortar Lining (CML), Add	64.77			
	Note: ANSI/AWWA C104/A21.4				
	For Fusion Bonded Epoxy Lining (206N), Add	116.59			
	Note: ANSI/AWWA C104/A21.4				
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	48.58			
	Note: ANSI/AWWA C151/A21.51				
33 14 13 13-1131	EA 14" Tee, Push-On Joint Ductile Iron.....	1,329.82		156.58	
	For Cement Mortar Lining (CML), Add	109.26			
	Note: ANSI/AWWA C104/A21.4				
	For Fusion Bonded Epoxy Lining (206N), Add	196.67			
	Note: ANSI/AWWA C104/A21.4				
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	81.94			
	Note: ANSI/AWWA C151/A21.51				
33 14 13 13-1132	EA 16" Tee, Push-On Joint Ductile Iron.....	1,904.04		195.78	
	For Cement Mortar Lining (CML), Add	160.75			
	Note: ANSI/AWWA C104/A21.4				
	For Fusion Bonded Epoxy Lining (206N), Add	289.35			
	Note: ANSI/AWWA C104/A21.4				
	For Bituminous Or Coal Tar Coating, 1 Mil, Add	120.56			
	Note: ANSI/AWWA C151/A21.51				

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1133 EA 18" Tee, Push-On Joint Ductile Iron..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,402.18 200.64 361.16 150.48	261.19
33 14 13 13-1134 EA 20" Tee, Push-On Joint Ductile Iron..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,837.21 235.44 423.79 176.58	318.69
33 14 13 13-1135 EA 24" Tee, Push-On Joint Ductile Iron..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,704.75 310.13 558.23 232.59	398.34
33 14 13 13-1136 Flanged End x Push-On Joint Ductile Iron Adapters (33 14 13 13-1086)		
33 14 13 13-1137 EA 4" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	404.66 20.57 37.03 15.43	131.32
33 14 13 13-1138 EA 6" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	495.67 24.94 44.88 18.70	162.58
33 14 13 13-1139 EA 8" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	645.81 35.84 64.52 26.88	189.63
33 14 13 13-1140 EA 10" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	891.16 46.75 84.16 35.06	279.61
33 14 13 13-1141 EA 12" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,076.36 59.22 106.60 44.42	319.59
33 14 13 13-1142 EA 14" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,238.28 71.69 129.04 53.77	344.11
33 14 13 13-1143 EA 16" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,468.74 90.39 162.70 67.79	372.80
33 14 13 13-1144 EA 18" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,737.55 105.97 190.75 79.48	447.36
33 14 13 13-1145 EA 20" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,015.46 126.23 227.22 94.67	497.07



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1146 EA 24" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,520.94 165.19 297.35 123.90	573.55
33 14 13 13-1147 EA 30" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,007.56 296.48 533.66 222.36	688.22
33 14 13 13-1148 EA 36" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,533.71 423.02 761.44 317.27	860.27
33 14 13 13-1149 EA 42" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,983.85 547.76 985.96 410.82	994.14
33 14 13 13-1150 EA 48" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,914.66 697.80 1,256.04 523.35	1,278.15
33 14 13 13-1151 EA 54" Flanged End x Push-On Joint Adapter, Ductile Iron For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,823.90 856.39 1,541.50 642.29	1,491.55
33 14 13 13-1152 Push-On Joint Ductile Iron Pipe And Fitting Restraints (33 14 13 13-1086) Note: Includes ductile iron follower gland, restraint ring and all nuts and bolts. Excludes pipe and fitting.		
33 14 13 13-1153 EA 4" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	38.02	20.45
33 14 13 13-1154 EA 6" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	51.02	26.67
33 14 13 13-1155 EA 8" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	67.45	27.64
33 14 13 13-1156 EA 10" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	77.51	29.36
33 14 13 13-1157 EA 12" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	90.62	32.62
33 14 13 13-1158 EA 14" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	111.32	36.70
33 14 13 13-1159 EA 16" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	130.40	41.93
33 14 13 13-1160 EA 18" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	145.73	45.44
33 14 13 13-1161 EA 20" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	170.98	54.52
33 14 13 13-1162 EA 24" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	199.41	56.62
33 14 13 13-1163 EA 30" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	249.22	62.91
33 14 13 13-1164 EA 36" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	315.81	68.14
33 14 13 13-1165 EA 42" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	383.49	74.56
33 14 13 13-1166 EA 48" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	449.73	83.88
33 14 13 13-1167 EA 54" Pipe And Fitting Restraint, Push-On Joint Ductile Iron	604.69	90.96
33 14 13 13-1168 Push-On Joint Ductile Iron Bell Restraint Harness (MEGALUG® 1700 Series) (33 14 13 13-1086)		
33 14 13 13-1169 EA 4" Bell Restraint Harness, Ductile Iron (MEGALUG® 170400).....	241.88	76.25
33 14 13 13-1170 EA 6" Bell Restraint Harness, Ductile Iron (MEGALUG® 170600).....	318.94	93.08
33 14 13 13-1171 EA 8" Bell Restraint Harness, Ductile Iron (MEGALUG® 170800).....	410.50	113.53
33 14 13 13-1172 EA 10" Bell Restraint Harness, Ductile Iron (MEGALUG® 171000).....	617.85	138.50
33 14 13 13-1173 EA 12" Bell Restraint Harness, Ductile Iron (MEGALUG® 171200).....	766.29	168.89
33 14 13 13-1174 EA 14" Bell Restraint Harness, Ductile Iron (MEGALUG® 171400).....	1,319.02	206.06
33 14 13 13-1175 EA 16" Bell Restraint Harness, Ductile Iron (MEGALUG® 171600).....	1,506.24	251.47
33 14 13 13-1176 EA 18" Bell Restraint Harness, Ductile Iron (MEGALUG® 171800).....	1,710.41	306.71
33 14 13 13-1177 EA 20" Bell Restraint Harness, Ductile Iron (MEGALUG® 172000).....	2,324.03	374.27
33 14 13 13-1178 EA 24" Bell Restraint Harness, Ductile Iron (MEGALUG® 172400).....	2,963.70	456.52
33 14 13 13-1179 EA 30" Bell Restraint Harness, Ductile Iron (MEGALUG® 173000).....	5,109.85	557.06
33 14 13 13-1180 EA 36" Bell Restraint Harness, Ductile Iron (MEGALUG® 173600).....	7,247.55	679.52
33 14 13 13-1181 EA 42" Bell Restraint Harness, Ductile Iron (MEGALUG® 174200).....	13,155.78	829.09
33 14 13 13-1182 EA 48" Bell Restraint Harness, Ductile Iron (MEGALUG® 174800).....	17,018.08	1,011.43
33 14 13 13-1183 Ductile Iron Pipe Repair (33 14 13 13-0001) See CSI section 33 14 13 13-0002 for mechanical joint fittings.		

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1184		Ductile Iron Pipe Repair (33 14 13 13-1183) Note: Includes two transition sleeves, mechanical joint ductile iron sleeve and 16' of ductile iron pipe.		
33 14 13 13-1185	EA	30" Diameter Mechanical Ductile Iron Push Joint	2,687.58	
33 14 13 13-1186	EA	36" Diameter Mechanical Ductile Iron Push Joint	3,376.21	
33 14 13 13-1187	EA	42" Diameter Mechanical Ductile Iron Push Joint	4,186.64	
33 14 13 13-1188	EA	48" Diameter Mechanical Ductile Iron Push Joint	5,231.57	
33 14 13 13-1189	EA	54" Diameter Mechanical Ductile Iron Push Joint	7,480.42	
33 14 13 13-1190		WEKO Seals (33 14 13 13-1183) Note: Internal joint seal.		
33 14 13 13-1191	EA	16" WEKO Internal Joint Seal	1,405.57	233.12
		For Extra Wide Seals, Add	87.66	
33 14 13 13-1192	EA	18" WEKO Internal Joint Seal	1,496.07	246.15
		For Extra Wide Seals, Add	88.65	
33 14 13 13-1193	EA	20" WEKO Internal Joint Seal	1,586.37	259.19
		For Extra Wide Seals, Add	89.64	
33 14 13 13-1194	EA	24" WEKO Internal Joint Seal	1,684.11	279.93
		For Extra Wide Seals, Add	91.21	
33 14 13 13-1195	EA	30" WEKO Internal Joint Seal	1,746.00	300.66
		For Extra Wide Seals, Add	92.78	
33 14 13 13-1196	EA	36" WEKO Internal Joint Seal	1,839.02	326.58
		For Extra Wide Seals, Add	94.74	
33 14 13 13-1197	EA	42" WEKO Internal Joint Seal	1,966.80	357.68
		For Extra Wide Seals, Add	97.10	
33 14 13 13-1198	EA	48" WEKO Internal Joint Seal	2,122.56	383.60
		For Extra Wide Seals, Add	99.06	
33 14 13 13-1199	EA	54" WEKO Internal Joint Seal	2,205.97	404.34
		For Extra Wide Seals, Add	100.63	
33 14 13 13-1200	EA	60" WEKO Internal Joint Seal	2,308.66	435.44
		For Extra Wide Seals, Add	102.99	
33 14 13 23		Plastic Public Water Utility Distribution Piping (33 14 13)		
33 14 13 23-0001		AWWA C900/C905 Polyvinyl Chloride (PVC) Pipe (33 14 13 23) Note: Includes hub on one end of pipe. C900 is available in blue, white, purple or green.		
33 14 13 23-0002		AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0003	LF	4" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	10.08	3.65
33 14 13 23-0004	LF	6" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	14.52	4.42
33 14 13 23-0005	LF	8" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	19.72	4.98
33 14 13 23-0006	LF	10" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	25.80	5.52
33 14 13 23-0007	LF	12" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	33.25	6.19
33 14 13 23-0008		AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0009	LF	4" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	11.08	3.65
33 14 13 23-0010	LF	6" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	16.59	4.42
33 14 13 23-0011	LF	8" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	23.21	4.98
33 14 13 23-0012	LF	10" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	31.22	5.52
33 14 13 23-0013	LF	12" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	40.81	6.19
33 14 13 23-0014		AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0015	LF	4" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	12.06	3.65
33 14 13 23-0016	LF	6" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	18.64	4.42
33 14 13 23-0017	LF	8" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	26.69	4.98
33 14 13 23-0018	LF	10" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	36.52	5.52
33 14 13 23-0019	LF	12" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe	48.36	6.19
33 14 13 23-0020		AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0021	LF	18" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	52.16	9.29
33 14 13 23-0022	LF	20" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	63.57	11.06
33 14 13 23-0023	LF	24" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	85.07	13.27
33 14 13 23-0024	LF	30" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	122.44	15.48
33 14 13 23-0025	LF	36" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	168.54	17.69
33 14 13 23-0026	LF	42" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	213.10	18.79
33 14 13 23-0027	LF	48" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe	269.44	20.24
33 14 13 23-0028		AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0029	LF	14" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	38.51	6.97
33 14 13 23-0030	LF	16" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	48.20	7.74
33 14 13 23-0031	LF	18" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	59.73	9.29
33 14 13 23-0032	LF	20" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	73.40	11.06
33 14 13 23-0033	LF	24" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	100.23	13.27
33 14 13 23-0034	LF	30" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	144.18	15.48
33 14 13 23-0035	LF	36" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	197.67	17.69
33 14 13 23-0036	LF	42" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	261.54	18.79



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0037	LF	48" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe	332.28	20.24
33 14 13 23-0038		AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0039	LF	14" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	44.34	6.97
33 14 13 23-0040	LF	16" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	56.28	7.74
33 14 13 23-0041	LF	18" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	69.78	9.29
33 14 13 23-0042	LF	20" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	86.43	11.06
33 14 13 23-0043	LF	24" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	118.94	13.27
33 14 13 23-0044	LF	30" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	172.30	15.48
33 14 13 23-0045	LF	36" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	238.70	17.69
33 14 13 23-0046	LF	42" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	310.15	18.79
33 14 13 23-0047	LF	48" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe	395.72	20.24
33 14 13 23-0048		AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0049	LF	14" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	54.30	6.97
33 14 13 23-0050	LF	16" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	68.11	7.74
33 14 13 23-0051	LF	18" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	85.01	9.29
33 14 13 23-0052	LF	20" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	104.82	11.06
33 14 13 23-0053	LF	24" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	145.46	13.27
33 14 13 23-0054	LF	30" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	213.92	15.48
33 14 13 23-0055	LF	36" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	302.69	17.69
33 14 13 23-0056	LF	42" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	404.00	18.79
33 14 13 23-0057	LF	48" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe	521.66	20.24
33 14 13 23-0058		AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0059	LF	14" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	61.79	6.97
33 14 13 23-0060	LF	16" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	77.85	7.74
33 14 13 23-0061	LF	18" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	97.29	9.29
33 14 13 23-0062	LF	20" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	120.12	11.06
33 14 13 23-0063	LF	24" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	167.47	13.27
33 14 13 23-0064	LF	30" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	247.77	15.48
33 14 13 23-0065	LF	36" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	352.14	17.69
33 14 13 23-0066	LF	42" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe	471.77	18.79
33 14 13 23-0067		AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0068	LF	14" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	69.08	6.97
33 14 13 23-0069	LF	16" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	87.32	7.74
33 14 13 23-0070	LF	18" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	109.23	9.29
33 14 13 23-0071	LF	20" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	135.00	11.06
33 14 13 23-0072	LF	24" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	188.87	13.27
33 14 13 23-0073	LF	30" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	280.70	15.48
33 14 13 23-0074	LF	36" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe	400.26	17.69
33 14 13 23-0075		AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) Fittings (33 14 13 23)		
Note: Includes rubber gaskets.				
33 14 13 23-0076		90 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0075)		
33 14 13 23-0077	EA	4" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	205.39	14.12
		For DR 25, Deduct	-10.63	
33 14 13 23-0078	EA	6" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	418.46	15.89
		For DR 25, Deduct	-23.20	
33 14 13 23-0079	EA	8" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	627.58	17.65
		For DR 25, Deduct	-35.54	
33 14 13 23-0080	EA	10" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	960.70	29.11
		For DR 25, Deduct	-54.15	
33 14 13 23-0081	EA	12" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,252.60	48.52
		For DR 25, Deduct	-69.34	
33 14 13 23-0082	EA	14" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,878.38	60.64
		For DR 25, Deduct	-105.43	
33 14 13 23-0083	EA	16" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,241.72	72.77
		For DR 25, Deduct	-125.77	
33 14 13 23-0084	EA	18" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,840.49	97.02
		For DR 25, Deduct	-218.79	
33 14 13 23-0085	EA	20" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,728.19	121.28
		For DR 25, Deduct	-269.14	
33 14 13 23-0086	EA	24" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	7,840.34	163.73
		For DR 25, Deduct	-450.77	
33 14 13 23-0087		45 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0075)		
33 14 13 23-0088	EA	4" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	182.27	14.12
		For DR 25, Deduct	-9.24	
33 14 13 23-0089	EA	6" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	313.56	15.89
		For DR 25, Deduct	-16.91	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0090	EA	8" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	396.96	17.65
		<i>For DR 25, Deduct</i>	-21.70	
33 14 13 23-0091	EA	10" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	564.08	29.11
		<i>For DR 25, Deduct</i>	-30.35	
33 14 13 23-0092	EA	12" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	756.31	48.52
		<i>For DR 25, Deduct</i>	-39.56	
33 14 13 23-0093	EA	14" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,446.69	60.64
		<i>For DR 25, Deduct</i>	-79.52	
33 14 13 23-0094	EA	16" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,832.73	72.77
		<i>For DR 25, Deduct</i>	-101.23	
33 14 13 23-0095	EA	18" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,156.70	97.02
		<i>For DR 25, Deduct</i>	-177.76	
33 14 13 23-0096	EA	20" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,920.94	121.28
		<i>For DR 25, Deduct</i>	-220.70	
33 14 13 23-0097	EA	24" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,531.56	163.73
		<i>For DR 25, Deduct</i>	-312.25	
33 14 13 23-0098 22-1/2 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0075)				
33 14 13 23-0099	EA	4" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	179.45	14.12
		<i>For DR 25, Deduct</i>	-9.07	
33 14 13 23-0100	EA	6" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	313.57	15.89
		<i>For DR 25, Deduct</i>	-16.91	
33 14 13 23-0101	EA	8" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	396.97	17.65
		<i>For DR 25, Deduct</i>	-21.70	
33 14 13 23-0102	EA	10" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	564.10	29.11
		<i>For DR 25, Deduct</i>	-30.35	
33 14 13 23-0103	EA	12" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	756.31	48.52
		<i>For DR 25, Deduct</i>	-39.56	
33 14 13 23-0104	EA	14" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,441.81	58.22
		<i>For DR 25, Deduct</i>	-79.52	
33 14 13 23-0105	EA	16" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,832.71	72.77
		<i>For DR 25, Deduct</i>	-101.23	
33 14 13 23-0106	EA	18" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,156.70	97.02
		<i>For DR 25, Deduct</i>	-177.76	
33 14 13 23-0107	EA	20" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,920.94	121.28
		<i>For DR 25, Deduct</i>	-220.70	
33 14 13 23-0108	EA	24" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,531.56	163.73
		<i>For DR 25, Deduct</i>	-312.25	
33 14 13 23-0109 11-1/4 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0075)				
33 14 13 23-0110	EA	4" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	158.74	14.12
		<i>For DR 25, Deduct</i>	-7.83	
33 14 13 23-0111	EA	6" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	313.57	15.89
		<i>For DR 25, Deduct</i>	-16.91	
33 14 13 23-0112	EA	8" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	396.97	17.65
		<i>For DR 25, Deduct</i>	-21.70	
33 14 13 23-0113	EA	10" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	564.10	29.11
		<i>For DR 25, Deduct</i>	-30.35	
33 14 13 23-0114	EA	12" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	756.31	48.52
		<i>For DR 25, Deduct</i>	-39.56	
33 14 13 23-0115	EA	14" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,441.81	58.22
		<i>For DR 25, Deduct</i>	-79.52	
33 14 13 23-0116	EA	16" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,832.71	72.77
		<i>For DR 25, Deduct</i>	-101.23	
33 14 13 23-0117	EA	18" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,156.70	97.02
		<i>For DR 25, Deduct</i>	-177.76	
33 14 13 23-0118	EA	20" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,920.94	121.28
		<i>For DR 25, Deduct</i>	-220.70	
33 14 13 23-0119	EA	24" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,531.56	163.73
		<i>For DR 25, Deduct</i>	-312.25	
33 14 13 23-0120 Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0075)				
33 14 13 23-0121	EA	4" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	243.96	15.89
		<i>For DR 25, Deduct</i>	-12.73	
33 14 13 23-0122	EA	6" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	469.09	17.65
		<i>For DR 25, Deduct</i>	-26.03	
33 14 13 23-0123	EA	8" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	653.85	20.01
		<i>For DR 25, Deduct</i>	-36.83	
33 14 13 23-0124	EA	10" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,349.82	36.38
		<i>For DR 25, Deduct</i>	-76.62	
33 14 13 23-0125	EA	12" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,653.95	72.77
		<i>For DR 25, Deduct</i>	-90.51	
33 14 13 23-0126	EA	14" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,977.90	90.96
		<i>For DR 25, Deduct</i>	-167.76	
33 14 13 23-0127	EA	16" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,687.65	109.15
		<i>For DR 25, Deduct</i>	-208.16	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
33 14 13 23-0128	EA	18" Tee, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,654.71	145.54
		For DR 25, Deduct	-261.82	
33 14 13 23-0129	EA	20" Tee, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,591.34	181.92
		For DR 25, Deduct	-313.65	
33 14 13 23-0130	EA	24" Tee, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	7,642.58	123.71
		For DR 25, Deduct	-443.71	
33 14 13 23-0131 Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0075)				
33 14 13 23-0132	EA	6" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	467.95	22.95
		For DR 25, Deduct	-25.32	
33 14 13 23-0133	EA	8" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	635.46	24.71
		For DR 25, Deduct	-35.16	
33 14 13 23-0134	EA	8" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	651.41	25.60
		For DR 25, Deduct	-36.01	
33 14 13 23-0135	EA	10" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	848.27	36.38
		For DR 25, Deduct	-46.53	
33 14 13 23-0136	EA	10" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,146.13	37.29
		For DR 25, Deduct	-64.29	
33 14 13 23-0137	EA	10" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,225.71	38.20
		For DR 25, Deduct	-68.96	
33 14 13 23-0138	EA	12" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,302.94	55.79
		For DR 25, Deduct	-71.48	
33 14 13 23-0139	EA	12" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,493.99	56.70
		For DR 25, Deduct	-82.84	
33 14 13 23-0140	EA	12" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,584.37	57.61
		For DR 25, Deduct	-88.15	
33 14 13 23-0141	EA	12" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,615.22	63.07
		For DR 25, Deduct	-89.35	
33 14 13 23-0142	EA	14" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,446.15	65.49
		For DR 25, Deduct	-138.91	
33 14 13 23-0143	EA	14" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,544.14	66.40
		For DR 25, Deduct	-144.68	
33 14 13 23-0144	EA	14" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,642.39	67.31
		For DR 25, Deduct	-150.47	
33 14 13 23-0145	EA	14" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,749.17	72.77
		For DR 25, Deduct	-156.22	
33 14 13 23-0146	EA	14" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,864.80	82.47
		For DR 25, Deduct	-161.99	
33 14 13 23-0147	EA	16" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,052.32	80.05
		For DR 25, Deduct	-173.53	
33 14 13 23-0148	EA	16" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,148.47	80.05
		For DR 25, Deduct	-179.30	
33 14 13 23-0149	EA	16" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,246.49	80.95
		For DR 25, Deduct	-185.07	
33 14 13 23-0150	EA	16" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,344.50	81.87
		For DR 25, Deduct	-190.85	
33 14 13 23-0151	EA	16" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,470.97	97.02
		For DR 25, Deduct	-196.62	
33 14 13 23-0152	EA	16" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,576.85	101.88
		For DR 25, Deduct	-202.39	
33 14 13 23-0153	EA	18" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,773.38	104.30
		For DR 25, Deduct	-213.89	
33 14 13 23-0154	EA	18" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,872.07	105.21
		For DR 25, Deduct	-219.70	
33 14 13 23-0155	EA	18" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,970.06	106.12
		For DR 25, Deduct	-225.47	
33 14 13 23-0156	EA	18" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,077.15	111.58
		For DR 25, Deduct	-231.24	
33 14 13 23-0157	EA	18" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,192.70	121.28
		For DR 25, Deduct	-237.01	
33 14 13 23-0158	EA	18" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,297.92	126.13
		For DR 25, Deduct	-242.74	
33 14 13 23-0159	EA	18" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,431.90	133.41
		For DR 25, Deduct	-249.91	
33 14 13 23-0160	EA	20" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,784.99	128.55
		For DR 25, Deduct	-271.67	
33 14 13 23-0161	EA	20" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,951.03	129.47
		For DR 25, Deduct	-281.53	
33 14 13 23-0162	EA	20" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,016.51	130.37
		For DR 25, Deduct	-285.35	
33 14 13 23-0163	EA	20" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,091.19	135.83
		For DR 25, Deduct	-289.17	
33 14 13 23-0164	EA	20" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,174.29	145.54
		For DR 25, Deduct	-292.99	
33 14 13 23-0165	EA	20" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,287.24	150.38
		For DR 25, Deduct	-299.19	
33 14 13 23-0166	EA	20" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,405.08	157.66
		For DR 25, Deduct	-305.39	
33 14 13 23-0167	EA	20" x 18" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,498.20	169.79
		For DR 25, Deduct	-309.52	
33 14 13 23-0168	EA	24" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,638.37	171.01
		For DR 25, Deduct	-317.78	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0169 EA 24" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	5,709.11 -321.92	171.91
33 14 13 23-0170 EA 24" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	5,779.81 -326.05	172.83
33 14 13 23-0171 EA 24" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	6,070.86 -342.86	178.29
33 14 13 23-0172 EA 24" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	6,370.39 -359.67	187.98
33 14 13 23-0173 EA 24" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	6,660.24 -376.47	192.84
33 14 13 23-0174 EA 24" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	6,954.93 -393.28	200.12
33 14 13 23-0175 EA 24" x 18" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	7,259.35 -410.09	212.24
33 14 13 23-0176 EA 24" x 20" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	7,563.74 -426.90	224.37
33 14 13 23-0177 Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0075)		
33 14 13 23-0178 EA 4" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	339.41 -16.98	28.25
33 14 13 23-0179 EA 6" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	606.53 -32.58	31.78
33 14 13 23-0180 EA 8" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	838.30 -46.06	35.31
33 14 13 23-0181 EA 10" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	1,712.07 -95.74	58.22
33 14 13 23-0182 EA 12" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	2,031.45 -113.15	72.77
33 14 13 23-0183 EA 14" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	3,689.23 -209.71	97.02
33 14 13 23-0184 EA 16" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	4,578.50 -260.17	121.28
33 14 13 23-0185 EA 18" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	5,843.46 -327.32	194.05
33 14 13 23-0186 EA 20" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	7,019.60 -392.07	242.56
33 14 13 23-0187 EA 24" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	9,898.31 -554.60	327.45
33 14 13 23-0188 Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0075)		
33 14 13 23-0189 EA 6" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	588.00 -31.68	30.01
33 14 13 23-0190 EA 8" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	797.00 -44.01	31.78
33 14 13 23-0191 EA 8" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	817.52 -45.03	33.54
33 14 13 23-0192 EA 10" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	1,227.91 -68.44	43.66
33 14 13 23-0193 EA 10" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	1,430.56 -80.38	45.48
33 14 13 23-0194 EA 10" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	1,570.92 -88.58	47.30
33 14 13 23-0195 EA 12" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	1,615.82 -89.38	63.07
33 14 13 23-0196 EA 12" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	1,855.43 -103.54	64.89
33 14 13 23-0197 EA 12" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	1,969.81 -110.18	66.71
33 14 13 23-0198 EA 12" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	2,016.45 -111.67	77.62
33 14 13 23-0199 EA 14" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	3,039.48 -173.64	72.77
33 14 13 23-0200 EA 14" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	3,162.99 -180.83	74.59
33 14 13 23-0201 EA 14" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	3,287.81 -188.10	76.41
33 14 13 23-0202 EA 14" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	3,430.33 -195.34	87.32
33 14 13 23-0203 EA 14" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	3,588.90 -202.53	106.72
33 14 13 23-0204 EA 16" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	3,789.36 -216.88	87.32
33 14 13 23-0205 EA 16" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	3,914.49 -224.17	89.14
33 14 13 23-0206 EA 16" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	4,038.27 -231.38	90.96
33 14 13 23-0207 EA 16" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	4,180.68 -238.62	101.88
33 14 13 23-0208 EA 16" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	4,253.64 -240.66	121.28



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0209	EA	16" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,478.71	130.99
		For DR 25, Deduct	-253.00	
33 14 13 23-0210	EA	18" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,679.74	111.58
		For DR 25, Deduct	-267.40	
33 14 13 23-0211	EA	18" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,804.57	113.40
		For DR 25, Deduct	-274.67	
33 14 13 23-0212	EA	18" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,928.55	115.21
		For DR 25, Deduct	-281.89	
33 14 13 23-0213	EA	18" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,069.15	126.13
		For DR 25, Deduct	-289.01	
33 14 13 23-0214	EA	18" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,229.18	145.54
		For DR 25, Deduct	-296.29	
33 14 13 23-0215	EA	18" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,368.36	155.24
		For DR 25, Deduct	-303.47	
33 14 13 23-0216	EA	18" x 16" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,546.51	169.79
		For DR 25, Deduct	-312.42	
33 14 13 23-0217	EA	20" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,932.08	135.83
		For DR 25, Deduct	-339.62	
33 14 13 23-0218	EA	20" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,140.66	137.65
		For DR 25, Deduct	-351.92	
33 14 13 23-0219	EA	20" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,224.48	139.47
		For DR 25, Deduct	-356.73	
33 14 13 23-0220	EA	20" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,325.63	150.38
		For DR 25, Deduct	-361.49	
33 14 13 23-0221	EA	20" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,443.77	169.79
		For DR 25, Deduct	-366.25	
33 14 13 23-0222	EA	20" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,591.36	179.49
		For DR 25, Deduct	-373.94	
33 14 13 23-0223	EA	20" x 16" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,751.22	194.05
		For DR 25, Deduct	-381.79	
33 14 13 23-0224	EA	20" x 18" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,885.58	218.31
		For DR 25, Deduct	-386.94	
33 14 13 23-0225	EA	24" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,938.78	178.29
		For DR 25, Deduct	-394.93	
33 14 13 23-0226	EA	24" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	7,067.21	180.10
		For DR 25, Deduct	-402.42	
33 14 13 23-0227	EA	24" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	7,157.31	181.92
		For DR 25, Deduct	-407.61	
33 14 13 23-0228	EA	24" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	7,528.91	192.84
		For DR 25, Deduct	-428.59	
33 14 13 23-0229	EA	24" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	7,917.63	212.24
		For DR 25, Deduct	-449.59	
33 14 13 23-0230	EA	24" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	8,286.84	221.95
		For DR 25, Deduct	-470.58	
33 14 13 23-0231	EA	24" x 16" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	8,667.28	236.50
		For DR 25, Deduct	-491.66	
33 14 13 23-0232	EA	24" x 18" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	9,064.88	260.75
		For DR 25, Deduct	-512.60	
33 14 13 23-0233	EA	24" x 20" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	9,463.96	285.01
		For DR 25, Deduct	-533.64	
33 14 13 23-0234		Couplings, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0075)		
33 14 13 23-0235	EA	4" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	123.65	14.12
		For DR 25, Deduct	-5.72	
33 14 13 23-0236	EA	6" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	228.70	15.89
		For DR 25, Deduct	-11.82	
33 14 13 23-0237	EA	8" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	275.03	17.65
		For DR 25, Deduct	-14.38	
33 14 13 23-0238	EA	10" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	393.55	29.11
		For DR 25, Deduct	-20.12	
33 14 13 23-0239	EA	12" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	623.75	36.38
		For DR 25, Deduct	-33.06	
33 14 13 23-0240	EA	14" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,078.84	48.52
		For DR 25, Deduct	-58.91	
33 14 13 23-0241	EA	16" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,278.74	60.64
		For DR 25, Deduct	-69.45	
33 14 13 23-0242	EA	18" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,050.29	97.02
		For DR 25, Deduct	-171.37	
33 14 13 23-0243	EA	20" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,422.44	121.28
		For DR 25, Deduct	-190.79	
33 14 13 23-0244	EA	24" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,817.26	163.73
		For DR 25, Deduct	-269.39	
33 14 13 23-0245		Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) (33 14 13 23-0075)		
33 14 13 23-0246	EA	4" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	152.70	14.12
		For DR 25, Deduct	-7.47	
33 14 13 23-0247	EA	6" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	206.90	15.89
		For DR 25, Deduct	-10.51	
33 14 13 23-0248	EA	8" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	299.86	17.65
		For DR 25, Deduct	-15.87	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0249 EA 10" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	412.91	29.11
For DR 25, Deduct	-21.28	
33 14 13 23-0250 EA 12" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	662.11	48.52
For DR 25, Deduct	-33.91	
33 14 13 23-0251 EA 14" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,741.41	58.22
For DR 25, Deduct	-97.50	
33 14 13 23-0252 EA 16" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,355.89	72.77
For DR 25, Deduct	-132.62	
33 14 13 23-0253 EA 18" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,904.47	97.02
For DR 25, Deduct	-162.63	
33 14 13 23-0254 EA 20" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,471.27	121.28
For DR 25, Deduct	-193.72	
33 14 13 23-0255 EA 24" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,715.37	163.73
For DR 25, Deduct	-263.28	
33 14 13 23-0256 Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Piping (33 14 13 23)		
33 14 13 23-0257 Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe (33 14 13 23-0256)		
33 14 13 23-0258 LF 3/4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	2.74	0.94
For >1,000, Deduct	-0.14	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.06	
33 14 13 23-0259 LF 1" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	3.04	1.01
For >1,000, Deduct	-0.15	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.08	
33 14 13 23-0260 LF 1-1/4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	3.57	1.10
For >1,000, Deduct	-0.18	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.12	
33 14 13 23-0261 LF 1-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	4.17	1.22
For >1,000, Deduct	-0.21	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.17	
33 14 13 23-0262 LF 2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	5.47	1.37
For >1,000, Deduct	-0.27	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.31	
33 14 13 23-0263 LF 2-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	7.14	1.56
For >1,000, Deduct	-0.36	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.49	
33 14 13 23-0264 LF 3" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	8.59	1.65
For >1,000, Deduct	-0.43	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.67	
33 14 13 23-0265 LF 4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	12.35	2.04
For >1,000, Deduct	-0.62	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.09	
33 14 13 23-0266 LF 6" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	22.32	2.58
For >1,000, Deduct	-1.12	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	2.38	
33 14 13 23-0267 LF 8" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	36.56	3.88
For >1,000, Deduct	-1.83	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	4.03	
33 14 13 23-0268 LF 10" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	54.74	5.19
For >1,000, Deduct	-2.74	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	6.26	
33 14 13 23-0269 LF 12" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe.....	76.30	6.99
For >1,000, Deduct	-3.82	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	8.83	
33 14 13 23-0270 90 Degree Elbows, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0256)		
33 14 13 23-0271 EA 3/4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	28.69	11.30
33 14 13 23-0272 EA 1", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	36.31	14.12
33 14 13 23-0273 EA 1-1/4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	45.80	17.65
33 14 13 23-0274 EA 1-1/2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	71.93	19.54
33 14 13 23-0275 EA 2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	77.58	21.89
33 14 13 23-0276 EA 2-1/2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	92.27	24.83
33 14 13 23-0277 EA 3", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	100.07	26.50
33 14 13 23-0278 EA 4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	141.33	32.54
33 14 13 23-0279 EA 6", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	206.76	41.34
33 14 13 23-0280 EA 8", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	342.27	54.27
33 14 13 23-0281 EA 10", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	417.46	72.61
33 14 13 23-0282 EA 12", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	550.83	97.73
33 14 13 23-0283 45 Degree Elbows, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0256)		
33 14 13 23-0284 EA 3/4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	29.31	11.30
33 14 13 23-0285 EA 1" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	36.75	14.12
33 14 13 23-0286 EA 1-1/4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	46.07	17.65
33 14 13 23-0287 EA 1-1/2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	63.82	19.54
33 14 13 23-0288 EA 2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	78.34	21.89
33 14 13 23-0289 EA 2-1/2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	95.33	24.83
33 14 13 23-0290 EA 3" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	98.78	26.50
33 14 13 23-0291 EA 4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	138.54	32.54
33 14 13 23-0292 EA 6" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	201.12	41.34
33 14 13 23-0293 EA 8" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC).....	331.54	54.27



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		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0294 EA 10" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	372.97	72.61
33 14 13 23-0295 EA 12" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	489.27	97.73
33 14 13 23-0296 Tees Or Wyes, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0256)		
33 14 13 23-0297 EA 3/4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	42.99	16.95
33 14 13 23-0298 EA 1" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	54.31	21.30
33 14 13 23-0299 EA 1-1/4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	68.15	26.60
33 14 13 23-0300 EA 1-1/2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	97.93	29.43
33 14 13 23-0301 EA 2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	111.76	32.72
33 14 13 23-0302 EA 2-1/2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	130.47	37.31
33 14 13 23-0303 EA 3" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	153.54	39.64
33 14 13 23-0304 EA 4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	203.72	48.86
33 14 13 23-0305 EA 6" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	348.99	62.12
33 14 13 23-0306 EA 8" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	529.94	81.41
33 14 13 23-0307 EA 10" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	640.68	124.55
33 14 13 23-0308 EA 12" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	797.06	167.61
33 14 13 23-0309 Couplings, Class 200, SDR 21 Polyvinyl Chloride (PVC) (33 14 13 23-0256)		
33 14 13 23-0310 EA 3/4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	19.23	7.54
33 14 13 23-0311 EA 1" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	25.98	10.13
33 14 13 23-0312 EA 1-1/4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	34.79	13.30
33 14 13 23-0313 EA 1-1/2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	50.25	14.71
33 14 13 23-0314 EA 2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	55.33	16.36
33 14 13 23-0315 EA 2-1/2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	62.93	18.59
33 14 13 23-0316 EA 3" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	70.01	19.82
33 14 13 23-0317 EA 4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	97.77	24.38
33 14 13 23-0318 EA 6" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	142.12	31.06
33 14 13 23-0319 EA 8" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	248.78	40.70
33 14 13 23-0320 EA 10" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	302.88	62.34
33 14 13 23-0321 EA 12" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC)	384.45	83.80
33 14 13 23-0322 Schedule 40 Polyvinyl Chloride (PVC) Pipe And Fittings (33 14 13 23)		
33 14 13 23-0323 Schedule 40 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0322)		
33 14 13 23-0324 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe	3.06	0.94
For >1,000, Deduct	-0.15	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.11	
33 14 13 23-0325 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe	3.64	1.01
For >1,000, Deduct	-0.18	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.17	
33 14 13 23-0326 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe	4.73	1.22
For >1,000, Deduct	-0.24	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.25	
33 14 13 23-0327 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe	5.67	1.37
For >1,000, Deduct	-0.28	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.34	
33 14 13 23-0328 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe	7.47	1.56
For >1,000, Deduct	-0.37	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.54	
33 14 13 23-0329 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Pipe	8.80	1.65
For >1,000, Deduct	-0.44	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.70	
33 14 13 23-0330 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Pipe	11.79	2.04
For >1,000, Deduct	-0.59	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.01	
33 14 13 23-0331 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Pipe	18.17	2.58
For >1,000, Deduct	-0.91	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.76	
33 14 13 23-0332 Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows (33 14 13 23-0322)		
33 14 13 23-0333 EA 3/4" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	28.92	11.30
33 14 13 23-0334 EA 1" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	36.44	14.12
33 14 13 23-0335 EA 1-1/2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	50.73	19.54
33 14 13 23-0336 EA 2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	57.45	21.89
33 14 13 23-0337 EA 2-1/2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	69.64	24.83
33 14 13 23-0338 EA 3" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	75.32	26.50
33 14 13 23-0339 EA 4" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	99.90	32.54
33 14 13 23-0340 EA 6" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	162.40	41.34
33 14 13 23-0341 Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows (33 14 13 23-0322)		
33 14 13 23-0342 EA 3/4" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	28.86	11.30
33 14 13 23-0343 EA 1" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	36.39	14.12
33 14 13 23-0344 EA 1-1/2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	50.76	19.54
33 14 13 23-0345 EA 2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	57.24	21.89
33 14 13 23-0346 EA 2-1/2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	69.07	24.83
33 14 13 23-0347 EA 3" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	74.64	26.50
33 14 13 23-0348 EA 4" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC)	98.53	32.54

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0349 EA 6" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	158.04	41.34
33 14 13 23-0350 Schedule 40 Polyvinyl Chloride (PVC) Tees Or Wyes (33 14 13 23-0322)		
33 14 13 23-0351 EA 3/4" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	43.22	16.95
33 14 13 23-0352 EA 1" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	54.49	21.30
33 14 13 23-0353 EA 1-1/2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	75.84	29.43
33 14 13 23-0354 EA 2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	85.41	32.72
33 14 13 23-0355 EA 2-1/2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	104.78	37.31
33 14 13 23-0356 EA 3" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	115.75	39.64
33 14 13 23-0357 EA 4" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	144.28	48.86
33 14 13 23-0358 EA 6" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	247.77	62.12
33 14 13 23-0359 Schedule 40 Polyvinyl Chloride (PVC) Couplings (33 14 13 23-0322)		
33 14 13 23-0360 EA 3/4" Coupling, Schedule 40 Polyvinyl Chloride (PVC).....	19.33	7.54
33 14 13 23-0361 EA 1" Coupling, Schedule 40 Polyvinyl Chloride (PVC).....	26.06	10.13
33 14 13 23-0362 EA 1-1/2" Coupling, Schedule 40 Polyvinyl Chloride (PVC).....	37.78	14.71
33 14 13 23-0363 EA 2" Coupling, Schedule 40 Polyvinyl Chloride (PVC).....	42.69	16.36
33 14 13 23-0364 EA 2-1/2" Coupling, Schedule 40 Polyvinyl Chloride (PVC).....	50.38	18.59
33 14 13 23-0365 EA 3" Coupling, Schedule 40 Polyvinyl Chloride (PVC).....	55.46	19.82
33 14 13 23-0366 EA 4" Coupling, Schedule 40 Polyvinyl Chloride (PVC).....	68.81	24.38
33 14 13 23-0367 EA 6" Coupling, Schedule 40 Polyvinyl Chloride (PVC).....	104.46	31.06
33 14 13 23-0368 Crosses, Schedule 40 Polyvinyl Chloride (PVC) (33 14 13 23-0322)		
33 14 13 23-0369 EA 3/4" Cross, Schedule 40 Polyvinyl Chloride (PVC).....	57.83	22.60
33 14 13 23-0370 EA 1" Cross, Schedule 40 Polyvinyl Chloride (PVC).....	72.57	28.36
33 14 13 23-0371 EA 1-1/2" Cross, Schedule 40 Polyvinyl Chloride (PVC).....	101.11	39.20
33 14 13 23-0372 EA 2" Cross, Schedule 40 Polyvinyl Chloride (PVC).....	113.88	43.67
33 14 13 23-0373 EA 2-1/2" Cross, Schedule 40 Polyvinyl Chloride (PVC).....	139.65	49.67
33 14 13 23-0374 EA 3" Cross, Schedule 40 Polyvinyl Chloride (PVC).....	154.25	52.89
33 14 13 23-0375 EA 4" Cross, Schedule 40 Polyvinyl Chloride (PVC).....	192.24	65.08
33 14 13 23-0376 EA 6" Cross, Schedule 40 Polyvinyl Chloride (PVC).....	329.82	82.79
33 14 13 23-0377 Schedule 80 Polyvinyl Chloride (PVC) Pipe And Fittings (33 14 13 23)		
33 14 13 23-0378 Schedule 80 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0377)		
33 14 13 23-0379 LF 1" Schedule 80 Polyvinyl Chloride (PVC) Pipe.....	3.98	1.01
For >1,000, Deduct	-0.20	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.22	
33 14 13 23-0380 LF 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pipe.....	5.41	1.22
For >1,000, Deduct	-0.27	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.35	
33 14 13 23-0381 LF 2" Schedule 80 Polyvinyl Chloride (PVC) Pipe.....	6.83	1.37
For >1,000, Deduct	-0.34	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.51	
33 14 13 23-0382 LF 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pipe.....	8.96	1.56
For >1,000, Deduct	-0.45	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.76	
33 14 13 23-0383 LF 3" Schedule 80 Polyvinyl Chloride (PVC) Pipe.....	10.89	1.65
For >1,000, Deduct	-0.54	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.01	
33 14 13 23-0384 LF 4" Schedule 80 Polyvinyl Chloride (PVC) Pipe.....	14.99	2.04
For >1,000, Deduct	-0.75	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.49	
33 14 13 23-0385 LF 6" Schedule 80 Polyvinyl Chloride (PVC) Pipe.....	25.31	2.58
For >1,000, Deduct	-1.27	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	2.83	
33 14 13 23-0386 Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows (33 14 13 23-0377)		
33 14 13 23-0387 EA 1" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC).....	38.21	14.12
33 14 13 23-0388 EA 1-1/2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC).....	50.73	19.54
33 14 13 23-0389 EA 2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC).....	59.22	21.89
33 14 13 23-0390 EA 2-1/2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC).....	73.41	24.83
33 14 13 23-0391 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	78.82	26.50
33 14 13 23-0392 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	100.75	32.54
33 14 13 23-0393 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow.....	158.41	41.34
33 14 13 23-0394 Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows (33 14 13 23-0377)		
33 14 13 23-0395 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow.....	45.49	14.12
33 14 13 23-0396 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow.....	57.74	19.54
33 14 13 23-0397 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow.....	65.96	21.89
33 14 13 23-0398 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow.....	86.05	24.83
33 14 13 23-0399 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow.....	95.28	26.50
33 14 13 23-0400 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow.....	133.83	32.54
33 14 13 23-0401 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow.....	156.19	41.34



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0402		Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes (33 14 13 23-0377)		
33 14 13 23-0403	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	58.21	21.30
33 14 13 23-0404	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	87.15	29.43
33 14 13 23-0405	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	98.90	32.72
33 14 13 23-0406	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes	111.93	37.31
33 14 13 23-0407	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	122.58	39.64
33 14 13 23-0408	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	149.21	48.86
33 14 13 23-0409	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes.....	247.59	62.12
33 14 13 23-0410		Schedule 80 Polyvinyl Chloride (PVC) Couplings (33 14 13 23-0377)		
33 14 13 23-0411	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Coupling	28.72	10.13
33 14 13 23-0412	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Coupling	42.35	14.71
33 14 13 23-0413	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Coupling	46.99	16.36
33 14 13 23-0414	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Coupling	61.42	18.59
33 14 13 23-0415	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Coupling	66.60	19.82
33 14 13 23-0416	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Coupling	82.34	24.38
33 14 13 23-0417	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Coupling	123.36	31.06
33 14 13 23-0418		Crosses, Schedule 80 Polyvinyl Chloride (PVC) (33 14 13 23-0377)		
33 14 13 23-0419	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Cross	77.51	28.36
33 14 13 23-0420	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Cross	116.12	39.20
33 14 13 23-0421	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Cross	131.78	43.67
33 14 13 23-0422	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Cross	149.13	49.67
33 14 13 23-0423	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Cross	163.31	52.89
33 14 13 23-0424	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Cross	198.78	65.08
33 14 13 23-0425	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Cross	329.58	82.79
33 14 13 23-0426		AWWA C906, High Density Polyethylene (HDPE) Pressure Piping (33 14 13 23)		
Note: ASTM D3350 pipe, ASTM D2657 heat fusion.				
33 14 13 23-0427		High Density Polyethylene (HDPE) Pressure Pipe (33 14 13 23-0426)		
33 14 13 23-0428	LF	3" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	8.06	2.88
		For SDR 19, Add	0.20	
		For SDR 17, Add	0.50	
		For SDR 15.5, Add	0.73	
		For SDR 13.5, Add	1.14	
		For SDR 11, Add	1.84	
33 14 13 23-0429	LF	4" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	9.30	3.65
		For SDR 26, Deduct	-0.37	
		For SDR 19, Add	0.18	
		For SDR 17, Add	0.44	
		For SDR 15.5, Add	0.65	
		For SDR 13.5, Add	1.02	
		For SDR 11, Add	1.64	
33 14 13 23-0430	LF	6" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	13.17	4.42
		For SDR 26, Deduct	-0.79	
		For SDR 19, Add	0.39	
		For SDR 17, Add	0.96	
		For SDR 15.5, Add	1.41	
		For SDR 13.5, Add	2.19	
		For SDR 11, Add	3.53	
33 14 13 23-0431	LF	8" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	17.29	4.98
		For SDR 26, Deduct	-1.35	
		For SDR 19, Add	0.66	
		For SDR 17, Add	1.63	
		For SDR 15.5, Add	2.39	
		For SDR 13.5, Add	3.73	
		For SDR 11, Add	6.00	
33 14 13 23-0432	LF	10" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	22.47	5.52
		For SDR 26, Deduct	-2.09	
		For SDR 19, Add	1.03	
		For SDR 17, Add	2.54	
		For SDR 15.5, Add	3.71	
		For SDR 13.5, Add	5.80	
		For SDR 11, Add	9.33	
33 14 13 23-0433	LF	12" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	28.72	61.91
		For SDR 26, Deduct	-3.02	
		For SDR 19, Add	1.48	
		For SDR 17, Add	3.66	
		For SDR 15.5, Add	5.35	
		For SDR 13.5, Add	8.35	
		For SDR 11, Add	13.45	
33 14 13 23-0434	LF	14" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	33.16	6.97
		For SDR 26, Deduct	-3.55	
		For SDR 19, Add	1.74	
		For SDR 17, Add	4.30	
		For SDR 15.5, Add	6.29	
		For SDR 13.5, Add	9.82	
		For SDR 11, Add	15.81	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0435 LF 16" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	40.74	7.74
For SDR 26, Deduct	-4.63	
For SDR 19, Add	2.27	
For SDR 17, Add	5.61	
For SDR 15.5, Add	8.22	
For SDR 13.5, Add	12.83	
For SDR 11, Add	20.65	
33 14 13 23-0436 LF 18" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	50.56	9.29
For SDR 26, Deduct	-5.85	
For SDR 19, Add	2.87	
For SDR 17, Add	7.09	
For SDR 15.5, Add	10.39	
For SDR 13.5, Add	16.22	
For SDR 11, Add	26.10	
33 14 13 23-0437 LF 20" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	94.75	11.06
For SDR 26, Deduct	-13.31	
For SDR 19, Add	6.54	
For SDR 17, Add	16.14	
For SDR 15.5, Add	23.63	
For SDR 13.5, Add	36.89	
For SDR 11, Add	59.38	
33 14 13 23-0438 LF 24" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe	83.35	13.27
For SDR 26, Deduct	-10.41	
For SDR 19, Add	5.11	
For SDR 17, Add	12.62	
For SDR 15.5, Add	18.49	
For SDR 13.5, Add	28.85	
For SDR 11, Add	46.44	
33 14 13 23-0439 90 Degree Elbows, High Density Polyethylene (HDPE) Pressure Piping ^(33 14 13 23-0426)		
33 14 13 23-0440 EA 3" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	65.58	17.65
For SDR 26, Deduct	-2.31	
For SDR 19, Add	1.14	
For SDR 17, Add	2.80	
For SDR 15.5, Add	4.11	
For SDR 13.5, Add	6.41	
For SDR 11, Add	10.32	
33 14 13 23-0441 EA 4" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	73.89	19.63
For SDR 26, Deduct	-2.76	
For SDR 19, Add	1.35	
For SDR 17, Add	3.34	
For SDR 15.5, Add	4.89	
For SDR 13.5, Add	7.64	
For SDR 11, Add	12.30	
33 14 13 23-0442 EA 6" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	107.21	22.43
For SDR 26, Deduct	-7.33	
For SDR 19, Add	3.60	
For SDR 17, Add	8.89	
For SDR 15.5, Add	13.01	
For SDR 13.5, Add	20.31	
For SDR 11, Add	32.69	
33 14 13 23-0443 EA 8" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	162.09	26.18
For SDR 26, Deduct	-15.32	
For SDR 19, Add	7.52	
For SDR 17, Add	18.58	
For SDR 15.5, Add	27.20	
For SDR 13.5, Add	42.46	
For SDR 11, Add	68.34	
33 14 13 23-0444 EA 10" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	244.16	34.96
For SDR 26, Deduct	-25.58	
For SDR 19, Add	12.56	
For SDR 17, Add	31.00	
For SDR 15.5, Add	45.40	
For SDR 13.5, Add	70.87	
For SDR 11, Add	114.07	
33 14 13 23-0445 EA 12" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	361.20	52.32
For SDR 26, Deduct	-37.45	
For SDR 19, Add	18.39	
For SDR 17, Add	45.40	
For SDR 15.5, Add	66.49	
For SDR 13.5, Add	103.77	
For SDR 11, Add	167.03	
33 14 13 23-0446 EA 14" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	452.93	69.82
For SDR 26, Deduct	-44.65	
For SDR 19, Add	21.92	
For SDR 17, Add	54.12	
For SDR 15.5, Add	79.26	
For SDR 13.5, Add	123.71	
For SDR 11, Add	199.13	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0447	EA	16" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	605.46	104.63
		For SDR 26, Deduct	-53.47	
		For SDR 19, Add	26.25	
		For SDR 17, Add	64.81	
		For SDR 15.5, Add	94.92	
		For SDR 13.5, Add	148.15	
		For SDR 11, Add	238.46	
33 14 13 23-0448	EA	18" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	750.05	117.70
		For SDR 26, Deduct	-72.76	
		For SDR 19, Add	35.72	
		For SDR 17, Add	88.20	
		For SDR 15.5, Add	129.16	
		For SDR 13.5, Add	201.61	
		For SDR 11, Add	324.50	
33 14 13 23-0449	EA	20" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	1,001.77	133.58
		For SDR 26, Deduct	-109.41	
		For SDR 19, Add	53.72	
		For SDR 17, Add	132.63	
		For SDR 15.5, Add	194.23	
		For SDR 13.5, Add	303.17	
		For SDR 11, Add	487.97	
33 14 13 23-0450	EA	24" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	1,267.68	157.01
		For SDR 26, Deduct	-146.07	
		For SDR 19, Add	71.72	
		For SDR 17, Add	177.07	
		For SDR 15.5, Add	259.31	
		For SDR 13.5, Add	404.74	
		For SDR 11, Add	651.46	
33 14 13 23-0451 Tees, High Density Polyethylene (HDPE) Pressure Piping (33 14 13 23-0426)				
33 14 13 23-0452	EA	3" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	71.82	18.48
		For SDR 26, Deduct	-3.02	
		For SDR 19, Add	1.49	
		For SDR 17, Add	3.67	
		For SDR 15.5, Add	5.37	
		For SDR 13.5, Add	8.38	
		For SDR 11, Add	13.49	
33 14 13 23-0453	EA	4" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	82.17	20.93
		For SDR 26, Deduct	-3.56	
		For SDR 19, Add	1.75	
		For SDR 17, Add	4.32	
		For SDR 15.5, Add	6.32	
		For SDR 13.5, Add	9.87	
		For SDR 11, Add	15.88	
33 14 13 23-0454	EA	6" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	123.18	24.16
		For SDR 26, Deduct	-9.31	
		For SDR 19, Add	4.57	
		For SDR 17, Add	11.28	
		For SDR 15.5, Add	16.52	
		For SDR 13.5, Add	25.79	
		For SDR 11, Add	41.51	
33 14 13 23-0455	EA	8" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	214.40	28.55
		For SDR 26, Deduct	-23.61	
		For SDR 19, Add	11.59	
		For SDR 17, Add	28.63	
		For SDR 15.5, Add	41.92	
		For SDR 13.5, Add	65.43	
		For SDR 11, Add	105.32	
33 14 13 23-0456	EA	10" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	295.29	41.90
		For SDR 26, Deduct	-31.11	
		For SDR 19, Add	15.27	
		For SDR 17, Add	37.71	
		For SDR 15.5, Add	55.23	
		For SDR 13.5, Add	86.20	
		For SDR 11, Add	138.75	
33 14 13 23-0457	EA	12" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	420.10	62.85
		For SDR 26, Deduct	-42.48	
		For SDR 19, Add	20.86	
		For SDR 17, Add	51.49	
		For SDR 15.5, Add	75.41	
		For SDR 13.5, Add	117.71	
		For SDR 11, Add	189.46	
33 14 13 23-0458	EA	14" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	508.04	78.51
		For SDR 26, Deduct	-49.98	
		For SDR 19, Add	24.54	
		For SDR 17, Add	60.58	
		For SDR 15.5, Add	88.72	
		For SDR 13.5, Add	138.48	
		For SDR 11, Add	222.89	
33 14 13 23-0459	EA	16" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	677.03	117.70
		For SDR 26, Deduct	-59.35	
		For SDR 19, Add	29.14	
		For SDR 17, Add	71.94	
		For SDR 15.5, Add	105.35	
		For SDR 13.5, Add	164.44	
		For SDR 11, Add	264.68	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0460 EA 18" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	861.15	137.11
For SDR 26, Deduct	-82.46	
For SDR 19, Add	40.49	
For SDR 17, Add	99.96	
For SDR 15.5, Add	146.39	
For SDR 13.5, Add	228.49	
For SDR 11, Add	367.77	
33 14 13 23-0461 EA 20" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	1,184.85	161.96
For SDR 26, Deduct	-127.13	
For SDR 19, Add	62.42	
For SDR 17, Add	154.10	
For SDR 15.5, Add	225.68	
For SDR 13.5, Add	352.25	
For SDR 11, Add	566.97	
33 14 13 23-0462 EA 24" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	1,525.71	196.32
For SDR 26, Deduct	-171.79	
For SDR 19, Add	84.35	
For SDR 17, Add	208.25	
For SDR 15.5, Add	304.97	
For SDR 13.5, Add	476.01	
For SDR 11, Add	766.18	

33 14 13 36 Steel Public Water Utility Distribution Piping (33 14 13)**33 14 13 36-0001 Steel Piping (33 14 13 36)****33 14 13 36-0002 Welded, Plain End, Uncoated Steel Piping (33 14 13 36-0001)**

Note: ASTM A252 steel pipe.

33 14 13 36-0003 Up To 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Piping (33 14 13 36-0002)

33 14 13 36-0004 LF 8" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	103.11	30.74
For <100, Add	12.14	
For >1,000, Deduct	-5.16	
33 14 13 36-0005 LF 8" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	121.11	30.74
For <100, Add	13.04	
For >1,000, Deduct	-6.06	
33 14 13 36-0006 LF 10" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	121.60	33.54
For <100, Add	13.70	
For >1,000, Deduct	-6.08	
33 14 13 36-0007 LF 10" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	144.35	33.54
For <100, Add	14.84	
For >1,000, Deduct	-7.22	
33 14 13 36-0008 LF 12" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	145.25	35.13
For <100, Add	15.25	
For >1,000, Deduct	-7.26	
33 14 13 36-0009 LF 12" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	162.95	35.13
For <100, Add	16.13	
For >1,000, Deduct	-8.15	
33 14 13 36-0010 LF 14" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	174.65	38.83
For <100, Add	17.56	
For >1,000, Deduct	-8.73	
33 14 13 36-0011 LF 14" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	188.79	38.83
For <100, Add	18.27	
For >1,000, Deduct	-9.44	
33 14 13 36-0012 LF 16" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	185.27	40.99
For <100, Add	18.58	
For >1,000, Deduct	-9.26	
33 14 13 36-0013 LF 16" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	196.19	40.99
For <100, Add	19.12	
For >1,000, Deduct	-9.81	
33 14 13 36-0014 LF 18" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	227.93	46.11
For <100, Add	21.88	
For >1,000, Deduct	-11.40	
33 14 13 36-0015 LF 20" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	245.83	46.11
For <100, Add	22.77	
For >1,000, Deduct	-12.29	

33 14 13 36-0016 5/16" To 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Piping (33 14 13 36-0002)

33 14 13 36-0017 LF 12" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	200.53	62.83
For <100, Add	19.90	
For >1,000, Deduct	-10.03	
33 14 13 36-0018 LF 14" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	236.58	69.12
For <100, Add	22.74	
For >1,000, Deduct	-11.83	
33 14 13 36-0019 LF 16" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	261.75	72.26
For <100, Add	24.61	
For >1,000, Deduct	-13.09	
33 14 13 36-0020 LF 18" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	295.21	81.69
For <100, Add	27.72	
For >1,000, Deduct	-14.76	
33 14 13 36-0021 LF 18" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	307.35	81.69
For <100, Add	28.33	
For >1,000, Deduct	-15.37	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 36-0022	LF	20" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	318.57	81.69
		For <100, Add	28.89	
		For >1,000, Deduct	-15.93	
33 14 13 36-0023	LF	20" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	331.52	81.69
		For <100, Add	29.53	
		For >1,000, Deduct	-16.58	
33 14 13 36-0024	LF	24" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	383.91	94.25
		For <100, Add	34.01	
		For >1,000, Deduct	-19.20	
33 14 13 36-0025	LF	24" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	423.96	94.25
		For <100, Add	36.01	
		For >1,000, Deduct	-21.20	
33 14 13 36-0026	LF	24" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	522.25	94.25
		For <100, Add	40.92	
		For >1,000, Deduct	-26.11	
33 14 13 36-0027	LF	30" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	475.20	109.96
		For <100, Add	41.04	
		For >1,000, Deduct	-23.76	
33 14 13 36-0028	LF	30" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	491.59	109.96
		For <100, Add	41.86	
		For >1,000, Deduct	-24.58	
33 14 13 36-0029	LF	30" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	646.11	109.96
		For <100, Add	49.59	
		For >1,000, Deduct	-32.31	
33 14 13 36-0030	LF	36" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	560.15	109.96
		For <100, Add	45.29	
		For >1,000, Deduct	-28.01	
33 14 13 36-0031	LF	36" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	657.61	131.95
		For <100, Add	53.62	
		For >1,000, Deduct	-32.88	
33 14 13 36-0032	LF	36" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	777.44	131.95
		For <100, Add	59.61	
		For >1,000, Deduct	-38.87	
33 14 13 36-0033	LF	36" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	747.51	131.95
		For <100, Add	58.11	
		For >1,000, Deduct	-37.38	
33 14 13 36-0034	LF	42" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,129.46	147.66
		For <100, Add	79.51	
		For >1,000, Deduct	-56.47	
33 14 13 36-0035	LF	42" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	702.10	147.66
		For <100, Add	58.15	
		For >1,000, Deduct	-35.11	
33 14 13 36-0036	LF	48" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,294.27	166.51
		For <100, Add	90.63	
		For >1,000, Deduct	-64.71	
33 14 13 36-0037	LF	48" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	771.45	166.51
		For <100, Add	64.49	
		For >1,000, Deduct	-38.57	
33 14 13 36-0038	LF	54" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,360.42	188.50
		For <100, Add	97.64	
		For >1,000, Deduct	-68.02	
33 14 13 36-0039	LF	54" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,496.94	188.50
		For <100, Add	104.47	
		For >1,000, Deduct	-74.85	
33 14 13 36-0040	LF	60" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,676.48	219.92
		For <100, Add	118.38	
		For >1,000, Deduct	-83.82	
33 14 13 36-0041	LF	66" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,191.08	219.92
		For <100, Add	94.11	
		For >1,000, Deduct	-59.55	
33 14 13 36-0042	LF	72" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,345.65	179.33
		For <100, Add	121.08	
		For >1,000, Deduct	-67.28	
33 14 13 36-0043	LF	78" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	2,441.84	179.33
		For <100, Add	175.89	
		For >1,000, Deduct	-122.09	
33 14 13 36-0044 Flexible Couplings (Dresser Style 38) (33 14 13 36-0001)				
33 14 13 36-0045	EA	2" Dresser Coupling For Plain End Welded Steel Pipe.....	129.23	35.39
33 14 13 36-0046	EA	3" Dresser Coupling For Plain End Welded Steel Pipe.....	200.00	68.07
33 14 13 36-0047	EA	4" Dresser Coupling For Plain End Welded Steel Pipe.....	266.25	89.86
33 14 13 36-0048	EA	6" Dresser Coupling For Plain End Welded Steel Pipe.....	419.97	136.14
33 14 13 36-0049	EA	8" Dresser Coupling For Plain End Welded Steel Pipe.....	545.41	171.53
33 14 13 36-0050	EA	10" Dresser Coupling For Plain End Welded Steel Pipe.....	658.39	169.46
33 14 13 36-0051	EA	12" Dresser Coupling For Plain End Welded Steel Pipe.....	784.30	212.38
33 14 13 36-0052	EA	14" Dresser Coupling For Plain End Welded Steel Pipe.....	843.85	212.38
33 14 13 36-0053	EA	16" Dresser Coupling For Plain End Welded Steel Pipe.....	892.50	225.94
33 14 13 36-0054	EA	18" Dresser Coupling For Plain End Welded Steel Pipe.....	976.57	259.83
33 14 13 36-0055	EA	20" Dresser Coupling For Plain End Welded Steel Pipe.....	1,064.94	293.72
33 14 13 36-0056	EA	24" Dresser Coupling For Plain End Welded Steel Pipe.....	1,331.89	310.66
33 14 13 36-0057	EA	30" Dresser Coupling For Plain End Welded Steel Pipe.....	1,588.05	338.91
33 14 13 36-0058	EA	36" Dresser Coupling For Plain End Welded Steel Pipe.....	1,858.06	381.27
33 14 13 36-0059	EA	42" Dresser Coupling For Plain End Welded Steel Pipe.....	2,140.67	429.29

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 36-0060 EA 48" Dresser Coupling For Plain End Welded Steel Pipe	2,490.55	494.24
33 14 13 36-0061 EA 54" Dresser Coupling For Plain End Welded Steel Pipe	2,766.68	564.85
33 14 13 36-0062 EA 60" Dresser Coupling For Plain End Welded Steel Pipe	3,200.21	706.06
33 14 13 36-0063 EA 66" Dresser Coupling For Plain End Welded Steel Pipe	3,696.70	858.57
33 14 13 36-0064 EA 72" Dresser Coupling For Plain End Welded Steel Pipe	4,407.98	1,016.74

33 14 13 39 Copper Public Water Utility Distribution Piping (33 14 13)**33 14 13 39-0001 Type L Copper Water Distribution Piping (33 14 13 39)**

33 14 13 39-0002 LF 1/2" Type L Copper Water Distribution Pipe	9.12	2.39
33 14 13 39-0003 LF 3/4" Type L Copper Water Distribution Pipe	11.59	2.68
33 14 13 39-0004 LF 1" Type L Copper Water Distribution Pipe	15.37	2.98
33 14 13 39-0005 LF 1-1/4" Type L Copper Water Distribution Pipe	19.29	3.57
33 14 13 39-0006 LF 1-1/2" Type L Copper Water Distribution Pipe	23.83	4.77
33 14 13 39-0007 LF 2" Type L Copper Water Distribution Pipe	34.96	5.96
33 14 13 39-0008 LF 2-1/2" Type L Copper Water Distribution Pipe	44.04	7.16
33 14 13 39-0009 LF 3" Type L Copper Water Distribution Pipe	55.46	7.87
33 14 13 39-0010 LF 3-1/2" Type L Copper Water Distribution Pipe	74.46	9.90
33 14 13 39-0011 LF 4" Type L Copper Water Distribution Pipe	98.44	12.52
33 14 13 39-0012 LF 5" Type L Copper Water Distribution Pipe	159.50	15.63
33 14 13 39-0013 LF 6" Type L Copper Water Distribution Pipe	206.30	18.85
33 14 13 39-0014 LF 8" Type L Copper Water Distribution Pipe	357.68	21.10

33 14 13 39-0015 Type K Copper Water Distribution Piping (33 14 13 39)

33 14 13 39-0016 LF 1/2" Type K Copper Water Distribution Pipe	9.74	2.39
33 14 13 39-0017 LF 3/4" Type K Copper Water Distribution Pipe	13.78	2.68
33 14 13 39-0018 LF 1" Type K Copper Water Distribution Pipe	17.56	2.98
33 14 13 39-0019 LF 1-1/4" Type K Copper Water Distribution Pipe	20.64	3.57
33 14 13 39-0020 LF 1-1/2" Type K Copper Water Distribution Pipe	25.83	4.77
33 14 13 39-0021 LF 2" Type K Copper Water Distribution Pipe	37.65	5.96
33 14 13 39-0022 LF 2-1/2" Type K Copper Water Distribution Pipe	51.50	7.16
33 14 13 39-0023 LF 3" Type K Copper Water Distribution Pipe	66.63	7.87
33 14 13 39-0024 LF 3-1/2" Type K Copper Water Distribution Pipe	87.60	9.90
33 14 13 39-0025 LF 4" Type K Copper Water Distribution Pipe	118.37	12.52
33 14 13 39-0026 LF 5" Type K Copper Water Distribution Pipe	200.75	15.63
33 14 13 39-0027 LF 6" Type K Copper Water Distribution Pipe	280.47	18.85
33 14 13 39-0028 LF 8" Type K Copper Water Distribution Pipe	494.57	21.10

33 14 13 43 Public Water Utility Distribution Piping Coatings and Wraps (33 14 13)**33 14 13 43-0001 Pipe Coatings (33 14 13 43)****33 14 13 43-0002 Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating (33 14 13 43-0001)**

Note: Applied at fabrication shop.

33 14 13 43-0003 LF 8" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	3.36
33 14 13 43-0004 LF 10" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	4.00
33 14 13 43-0005 LF 12" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	4.72
33 14 13 43-0006 LF 14" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	6.27
33 14 13 43-0007 LF 16" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	7.15
33 14 13 43-0008 LF 18" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	7.52
33 14 13 43-0009 LF 20" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	8.10
33 14 13 43-0010 LF 24" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	9.44
33 14 13 43-0011 LF 30" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	12.39
33 14 13 43-0012 LF 36" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	19.57
33 14 13 43-0013 LF 42" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	42.19
33 14 13 43-0014 LF 48" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	48.22
33 14 13 43-0015 LF 54" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	54.24
33 14 13 43-0016 LF 60" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	60.27
33 14 13 43-0017 LF 66" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	66.30
33 14 13 43-0018 LF 72" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	72.29
33 14 13 43-0019 LF 78" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating	78.35

33 14 13 43-0020 Cement Coating With Fiberglass Or Wire Mesh Reinforcing (33 14 13 43-0001)

Note: Applied at fabrication shop. Thickness ranging between 1" and 2".

33 14 13 43-0021 LF 4" Diameter Cement Coated Pipe 1" To 2" Mesh	11.58
Note: Reinforcing applied at fabrication shop.	
33 14 13 43-0022 LF 6" Diameter Cement Coated Pipe 1" To 2" Mesh	14.25
Note: Reinforcing applied at fabrication shop.	
33 14 13 43-0023 LF 8" Diameter Cement Coated Pipe 1" To 2" Mesh	17.81
Note: Reinforcing applied at fabrication shop.	
33 14 13 43-0024 LF 10" Diameter Cement Coated Pipe 1" To 2" Mesh	19.84
Note: Reinforcing applied at fabrication shop.	
33 14 13 43-0025 LF 12" Diameter Cement Coated Pipe 1" To 2" Mesh	22.41
Note: Reinforcing applied at fabrication shop.	
33 14 13 43-0026 LF 14" Diameter Cement Coated Pipe 1" To 2" Mesh	26.23
Note: Reinforcing applied at fabrication shop.	
33 14 13 43-0027 LF 16" Diameter Cement Coated Pipe 1" To 2" Mesh	29.80
Note: Reinforcing applied at fabrication shop.	



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR		UOM	DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI				UNIT COST	UNIT COST
33 14 13 43-0028	LF		18" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	33.61	
33 14 13 43-0029	LF		20" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	37.36	
33 14 13 43-0030	LF		24" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	44.82	
33 14 13 43-0031	LF		30" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	56.02	
33 14 13 43-0032	LF		36" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	67.23	
33 14 13 43-0033	LF		42" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	25.10	
33 14 13 43-0034	LF		48" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	28.68	
33 14 13 43-0035	LF		54" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	32.27	
33 14 13 43-0036	LF		60" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	35.85	
33 14 13 43-0037	LF		66" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	39.44	
33 14 13 43-0038	LF		72" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	43.02	
33 14 13 43-0039	LF		78" Diameter Cement Coated Pipe 1" To 2" Mesh Note: Reinforcing applied at fabrication shop.	46.61	
33 14 13 43-0040 Pipe Lining (33 14 13 43)					
33 14 13 43-0041 Cement Pipe Lining (33 14 13 43-0040)					
Note: Shop applied.					
33 14 13 43-0042	LF		4" Outside Diameter, 1/4" Thick Cement Pipe Lining..... For 1/2" Thick, Add	14.88 1.54	
33 14 13 43-0043	LF		6" Outside Diameter, 1/4" Thick Cement Pipe Lining..... For 1/2" Thick, Add	18.45 1.90	
33 14 13 43-0044	LF		8" Outside Diameter, 1/4" Thick Cement Pipe Lining..... For 1/2" Thick, Add	22.62 2.38	
33 14 13 43-0045	LF		10" Outside Diameter, 1/4" Thick Cement Pipe Lining..... For 1/2" Thick, Add	29.16 2.97	
33 14 13 43-0046	LF		12" Outside Diameter, 1/4" Thick Cement Pipe Lining..... For 1/2" Thick, Add	35.75 3.57	
33 14 13 43-0047	LF		14" Outside Diameter, 1/4" Thick Cement Pipe Lining..... For 1/2" Thick, Add	45.07 4.18	
33 14 13 43-0048	LF		16" Outside Diameter, 1/4" Thick Cement Pipe Lining..... For 1/2" Thick, Add	57.31 4.75	
33 14 13 43-0049	LF		18" Outside Diameter, 5/16" Thick Cement Pipe Lining..... For 1/2" Thick, Add	67.96 4.55	
33 14 13 43-0050	LF		20" Outside Diameter, 5/16" Thick Cement Pipe Lining..... For 1/2" Thick, Add	81.24 5.06	
33 14 13 43-0051	LF		24" Outside Diameter, 5/16" Thick Cement Pipe Lining..... For 1/2" Thick, Add	98.37 6.07	
33 14 13 43-0052	LF		30" Outside Diameter, 5/16" Thick Cement Pipe Lining..... For 1/2" Thick, Add	118.93 7.59	
33 14 13 43-0053	LF		36" Outside Diameter, 5/16" Thick Cement Pipe Lining..... For 1/2" Thick, Add	143.07 9.11	
33 14 13 43-0054	LF		42" Outside Diameter, 3/8" Thick Cement Pipe Lining..... For 1/2" Thick, Add	166.95 7.81	
33 14 13 43-0055	LF		48" Outside Diameter, 3/8" Thick Cement Pipe Lining..... For 1/2" Thick, Add	190.74 8.93	
33 14 13 43-0056	LF		54" Outside Diameter, 3/8" Thick Cement Pipe Lining..... For 1/2" Thick, Add	214.62 10.04	
33 14 13 43-0057	LF		60" Outside Diameter, 3/8" Thick Cement Pipe Lining..... For 1/2" Thick, Add	238.49 11.16	
33 14 13 43-0058	LF		66" Outside Diameter, 7/16" Thick Cement Pipe Lining..... For 1/2" Thick, Add	262.27 6.55	
33 14 13 43-0059	LF		72" Outside Diameter, 7/16" Thick Cement Pipe Lining..... For 1/2" Thick, Add	286.15 7.14	
33 14 13 43-0060	LF		78" Outside Diameter, 7/16" Thick Cement Pipe Lining..... For 1/2" Thick, Add	310.04 7.74	
33 14 13 43-0061 Cement Fitting Lining (33 14 13 43-0040)					
Note: Shop applied.					
33 14 13 43-0062	EA		4" Outside Diameter, 1/4" Thick Cement Fitting Lining..... For 1/2" Thick, Add	14.88 1.54	
33 14 13 43-0063	EA		6" Outside Diameter, 1/4" Thick Cement Fitting Lining..... For 1/2" Thick, Add	18.45 1.90	
33 14 13 43-0064	EA		8" Outside Diameter, 1/4" Thick Cement Fitting Lining..... For 1/2" Thick, Add	28.87 3.09	
33 14 13 43-0065	EA		10" Outside Diameter, 1/4" Thick Cement Fitting Lining..... For 1/2" Thick, Add	47.02 4.75	
33 14 13 43-0066	EA		12" Outside Diameter, 1/4" Thick Cement Fitting Lining..... For 1/2" Thick, Add	71.52 7.14	
33 14 13 43-0067	EA		14" Outside Diameter, 1/4" Thick Cement Fitting Lining..... For 1/2" Thick, Add	104.46 9.61	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 43-0068 EA 16" Outside Diameter, 1/4" Thick Cement Fitting Lining For 1/2" Thick, Add	151.23 12.34	
33 14 13 43-0069 EA 18" Outside Diameter, 5/16" Thick Cement Fittings Lining For 1/2" Thick, Add	203.88 13.66	
33 14 13 43-0070 EA 20" Outside Diameter, 5/16" Thick Cement Fitting Lining For 1/2" Thick, Add	270.64 16.85	
33 14 13 43-0071 EA 24" Outside Diameter, 5/16" Thick Cement Fitting Lining For 1/2" Thick, Add	393.47 24.28	
33 14 13 43-0072 8 Mil Polyethylene Encasement Tubing (33 14 13 43) Note: ANSI/AWWA C105/A21.5-99 section 4.2.		
33 14 13 43-0073 LF 3" To 8" Diameter, 8 Mil Polyethylene Encasement Tubing.....	1.31	
33 14 13 43-0074 LF 10" To 12" Diameter, 8 Mil Polyethylene Encasement Tubing.....	2.15	
33 14 13 43-0075 LF 14" To 16" Diameter, 8 Mil Polyethylene Encasement Tubing.....	2.67	
33 14 13 43-0076 LF 18" To 20" Diameter, 8 Mil Polyethylene Encasement Tubing.....	3.39	
33 14 13 43-0077 LF 24" Diameter, 8 Mil Polyethylene Encasement Tubing.....	4.66	
33 14 13 43-0078 LF 30" Diameter, 8 Mil Polyethylene Encasement Tubing.....	5.99	
33 14 13 43-0079 LF 36" To 42" Diameter, 8 Mil Polyethylene Encasement Tubing.....	7.64	
33 14 13 43-0080 LF 48" Diameter, 8 Mil Polyethylene Encasement Tubing.....	9.09	
33 14 13 43-0081 LF 54" Diameter, 8 Mil Polyethylene Encasement Tubing.....	10.81	
33 14 13 43-0082 LF 60" Diameter, 8 Mil Polyethylene Encasement Tubing.....	11.90	
33 14 13 53 Public Water Utility Distribution Piping Saddles And Adapters (33 14 13)		
33 14 13 53-0001 Double Stud Stainless Steel Service Saddles (33 14 13 53) Note: 1/2" listed taps are compression, 3/4" to 2" are either compression or NPT.		
33 14 13 53-0002 EA 4" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	274.76	
33 14 13 53-0003 EA 4" Diameter x 1-1/4" Or 1-1/2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	380.76	
33 14 13 53-0004 EA 4" Diameter x 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	393.89	
33 14 13 53-0005 EA 6" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	327.04	
33 14 13 53-0006 EA 6" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	409.05	
33 14 13 53-0007 EA 8" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	342.10	
33 14 13 53-0008 EA 8" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	428.57	
33 14 13 53-0009 EA 10" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	384.09	
33 14 13 53-0010 EA 10" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	451.52	
33 14 13 53-0011 EA 12" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	400.85	
33 14 13 53-0012 EA 12" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372)	462.87	
33 14 13 53-0013 Double Bale Epoxy Coated Ductile Iron Body Service Saddles (33 14 13 53) Note: Electro-galvanized steel bales. 5/8" listed taps are compression. 3/4" to 2" are either compression or NPT. 2-1/2", 3" or 4" are NPT.		
33 14 13 53-0014 EA 1-1/4" To 1-1/2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	233.66	
33 14 13 53-0015 EA 2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	233.81	
33 14 13 53-0016 EA 2" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	248.80	
33 14 13 53-0017 EA 2-1/2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	237.42	
33 14 13 53-0018 EA 3" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	253.96	
33 14 13 53-0019 EA 3" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	280.08	
33 14 13 53-0020 EA 3" Diameter x 2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	297.78	
33 14 13 53-0021 EA 4" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	272.98	
33 14 13 53-0022 EA 4" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	299.31	
33 14 13 53-0023 EA 4" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	314.61	
33 14 13 53-0024 EA 5" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	288.10	
33 14 13 53-0025 EA 5" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	315.23	
33 14 13 53-0026 EA 5" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	330.46	
33 14 13 53-0027 EA 6" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	303.70	
33 14 13 53-0028 EA 6" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	330.08	
33 14 13 53-0029 EA 6" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	345.13	
33 14 13 53-0030 EA 6" Diameter x 3" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	494.41	
33 14 13 53-0031 EA 6" Diameter x 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	507.53	
33 14 13 53-0032 EA 8" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	328.16	
33 14 13 53-0033 EA 8" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	359.78	
33 14 13 53-0034 EA 8" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	373.84	
33 14 13 53-0035 EA 8" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	582.77	
33 14 13 53-0036 EA 10" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	365.66	
33 14 13 53-0037 EA 10" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	403.35	
33 14 13 53-0038 EA 10" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	648.49	
33 14 13 53-0039 EA 12" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	396.74	
33 14 13 53-0040 EA 12" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	436.51	
33 14 13 53-0041 EA 12" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	452.36	
33 14 13 53-0042 EA 12" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	721.35	
33 14 13 53-0043 EA 14" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	459.64	
33 14 13 53-0044 EA 14" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	491.08	
33 14 13 53-0045 EA 14" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	527.71	
33 14 13 53-0046 EA 14" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	880.27	
33 14 13 53-0047 EA 15" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	472.77	



Utilities			33	CS
Water Utilities			33 10	
Water Utility Transmission and Distribution			33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 53-0048 EA 15" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	535.33	
33 14 13 53-0049 EA 15" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	557.55	
33 14 13 53-0050 EA 15" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	944.78	
33 14 13 53-0051 EA 16" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	493.90	
33 14 13 53-0052 EA 16" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	558.69	
33 14 13 53-0053 EA 16" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	581.48	
33 14 13 53-0054 EA 16" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	982.99	
33 14 13 53-0055 EA 18" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	544.54	
33 14 13 53-0056 EA 18" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	626.98	
33 14 13 53-0057 EA 20" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	617.23	
33 14 13 53-0058 EA 20" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	682.11	
33 14 13 53-0059 EA 24" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	644.36	
33 14 13 53-0060 EA 24" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313)	725.38	
33 14 13 53-0061 Double Bale Bronze Service Saddles (33 14 13 53)		
33 14 13 53-0062 EA 4" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	318.53	
33 14 13 53-0063 EA 4" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	347.51	
33 14 13 53-0064 EA 6" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	361.72	
33 14 13 53-0065 EA 6" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	390.96	
33 14 13 53-0066 EA 8" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	401.57	
33 14 13 53-0067 EA 8" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	422.02	
33 14 13 53-0068 EA 10" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	391.29	
33 14 13 53-0069 EA 10" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	415.76	
33 14 13 53-0070 EA 12" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	490.42	
33 14 13 53-0071 EA 12" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	529.31	
33 14 13 53-0072 EA 14" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	724.64	
33 14 13 53-0073 EA 14" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	816.03	
33 14 13 53-0074 EA 16" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	840.48	
33 14 13 53-0075 EA 16" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B)	935.66	
33 14 13 53-0076 Stainless Steel Double Straps, Bronze Body Service Saddle (33 14 13 53)		
Note: Taps are compression or NPT.		
33 14 13 53-0077 EA 4" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	333.60	
33 14 13 53-0078 EA 4" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	366.53	
33 14 13 53-0079 EA 6" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	379.52	
33 14 13 53-0080 EA 6" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	411.29	
33 14 13 53-0081 EA 8" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	423.57	
33 14 13 53-0082 EA 8" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	445.20	
33 14 13 53-0083 EA 10" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	475.16	
33 14 13 53-0084 EA 10" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	507.91	
33 14 13 53-0085 EA 12" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	510.58	
33 14 13 53-0086 EA 12" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	552.07	
33 14 13 53-0087 EA 14" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	774.60	
33 14 13 53-0088 EA 14" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	886.68	
33 14 13 53-0089 EA 16" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	899.76	
33 14 13 53-0090 EA 16" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	978.68	
33 14 13 53-0091 EA 18" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,897.24	
33 14 13 53-0092 EA 18" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,897.24	
33 14 13 53-0093 EA 20" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,971.94	
33 14 13 53-0094 EA 20" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	1,971.94	
33 14 13 53-0095 EA 24" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	2,116.09	
33 14 13 53-0096 EA 24" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S)	2,116.09	
33 14 13 53-0097 Ductile Iron Mechanical Joint Tapping Sleeve (33 14 13 53)		
33 14 13 53-0098 EA 4" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	1,459.55	
33 14 13 53-0099 EA 6" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	1,763.83	
33 14 13 53-0100 EA 8" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	2,105.92	
33 14 13 53-0101 EA 8" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	2,225.72	
33 14 13 53-0102 EA 10" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,346.33	
33 14 13 53-0103 EA 10" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,512.96	
33 14 13 53-0104 EA 10" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,585.89	
33 14 13 53-0105 EA 12" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,543.29	
33 14 13 53-0106 EA 12" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	3,709.26	
33 14 13 53-0107 EA 12" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	4,109.94	
33 14 13 53-0108 EA 12" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	4,213.57	
33 14 13 53-0109 EA 14" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	6,978.49	
33 14 13 53-0110 EA 14" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,165.68	
33 14 13 53-0111 EA 14" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,251.27	
33 14 13 53-0112 EA 14" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,289.54	
33 14 13 53-0113 EA 14" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,556.52	
33 14 13 53-0114 EA 16" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,548.69	
33 14 13 53-0115 EA 16" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,574.96	
33 14 13 53-0116 EA 16" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615)	7,783.83	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 14 13 53-0117	EA	16" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	7,835.07
33 14 13 53-0118	EA	16" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	7,891.19
33 14 13 53-0119	EA	16" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	12,022.75
33 14 13 53-0120	EA	16" Diameter x 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	8,278.56
33 14 13 53-0121	EA	18" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	10,470.56
33 14 13 53-0122	EA	18" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	10,938.96
33 14 13 53-0123	EA	18" Diameter x 8", 10", 12" Or 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	11,077.97
33 14 13 53-0124	EA	18" Diameter x 18" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	11,490.54
33 14 13 53-0125	EA	20" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	9,833.14
33 14 13 53-0126	EA	20" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	9,481.85
33 14 13 53-0127	EA	20" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	9,662.11
33 14 13 53-0128	EA	20" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	9,734.07
33 14 13 53-0129	EA	20" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	10,082.30
33 14 13 53-0130	EA	20" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	13,568.40
33 14 13 53-0131	EA	20" Diameter x 16", 18" Or 20" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	13,838.25
33 14 13 53-0132	EA	24" Diameter x 4", 6" Or 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	11,867.15
33 14 13 53-0133	EA	24" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	12,032.99
33 14 13 53-0134	EA	24" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	12,081.63
33 14 13 53-0135	EA	24" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	16,652.22
33 14 13 53-0136	EA	24" Diameter x 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	16,868.70
33 14 13 53-0137	EA	24" Diameter x 18" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	16,921.23
33 14 13 53-0138	EA	24" Diameter x 20" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	17,383.61
33 14 13 53-0139	EA	24" Diameter x 24" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615).....	17,605.98

33 14 13 53-0140 Carbon Steel Epoxy Coated Flange, Stainless Steel Tapping Sleeve (33 14 13 53)

33 14 13 53-0141	EA	4" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,202.10
33 14 13 53-0142	EA	6" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,281.93
33 14 13 53-0143	EA	6" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,399.00
33 14 13 53-0144	EA	8" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,443.81
33 14 13 53-0145	EA	8" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,503.35
33 14 13 53-0146	EA	8" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,719.97
33 14 13 53-0147	EA	10" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,578.36
33 14 13 53-0148	EA	10" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,636.39
33 14 13 53-0149	EA	10" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,827.09
33 14 13 53-0150	EA	10" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,499.06
33 14 13 53-0151	EA	12" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,778.12
33 14 13 53-0152	EA	12" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	1,862.14
33 14 13 53-0153	EA	12" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,049.84
33 14 13 53-0154	EA	12" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,652.06
33 14 13 53-0155	EA	12" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,886.81
33 14 13 53-0156	EA	14" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,324.72
33 14 13 53-0157	EA	14" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,394.64
33 14 13 53-0158	EA	14" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,794.75
33 14 13 53-0159	EA	14" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,290.24
33 14 13 53-0160	EA	14" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,613.27
33 14 13 53-0161	EA	16" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,755.75
33 14 13 53-0162	EA	16" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,827.86
33 14 13 53-0163	EA	16" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,093.51
33 14 13 53-0164	EA	16" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,801.20
33 14 13 53-0165	EA	16" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,970.24
33 14 13 53-0166	EA	18" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	2,931.27
33 14 13 53-0167	EA	18" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,060.01
33 14 13 53-0168	EA	18" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,237.95
33 14 13 53-0169	EA	18" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	4,070.29
33 14 13 53-0170	EA	18" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	4,239.14
33 14 13 53-0171	EA	20" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,529.49
33 14 13 53-0172	EA	20" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,601.44
33 14 13 53-0173	EA	20" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,997.86
33 14 13 53-0174	EA	20" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	4,666.59
33 14 13 53-0175	EA	20" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	4,951.68
33 14 13 53-0176	EA	24" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,814.09
33 14 13 53-0177	EA	24" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	3,969.00
33 14 13 53-0178	EA	24" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	4,177.36
33 14 13 53-0179	EA	24" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	5,125.54
33 14 13 53-0180	EA	24" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662).....	5,301.48

33 14 13 53-0181 Stainless Steel Flange, Stainless Steel Tapping Sleeve (33 14 13 53)

33 14 13 53-0182	EA	4" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,383.15
33 14 13 53-0183	EA	6" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,510.60
33 14 13 53-0184	EA	6" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,598.26
33 14 13 53-0185	EA	8" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,635.09
33 14 13 53-0186	EA	8" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,735.71
33 14 13 53-0187	EA	8" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,031.69
33 14 13 53-0188	EA	10" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,874.49
33 14 13 53-0189	EA	10" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	1,985.81
33 14 13 53-0190	EA	10" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,251.34
33 14 13 53-0191	EA	10" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,017.37
33 14 13 53-0192	EA	12" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,141.66
33 14 13 53-0193	EA	12" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,292.56



		Utilities	33	CS
		Water Utilities	33 10	
		Water Utility Transmission and Distribution	33 14	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 53-0194	EA	12" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,642.60	
33 14 13 53-0195	EA	12" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,097.95	
33 14 13 53-0196	EA	12" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,446.62	
33 14 13 53-0197	EA	14" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,444.50	
33 14 13 53-0198	EA	14" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,629.10	
33 14 13 53-0199	EA	14" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,022.95	
33 14 13 53-0200	EA	14" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,478.73	
33 14 13 53-0201	EA	14" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,720.89	
33 14 13 53-0202	EA	16" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	2,973.33	
33 14 13 53-0203	EA	16" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,224.84	
33 14 13 53-0204	EA	16" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,417.03	
33 14 13 53-0205	EA	16" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,906.92	
33 14 13 53-0206	EA	16" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	4,240.01	
33 14 13 53-0207	EA	18" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,282.46	
33 14 13 53-0208	EA	18" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,657.22	
33 14 13 53-0209	EA	18" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,857.71	
33 14 13 53-0210	EA	18" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	4,288.47	
33 14 13 53-0211	EA	18" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	4,857.66	
33 14 13 53-0212	EA	20" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,550.23	
33 14 13 53-0213	EA	20" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	3,924.02	
33 14 13 53-0214	EA	20" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	4,087.34	
33 14 13 53-0215	EA	20" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	4,886.98	
33 14 13 53-0216	EA	20" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	5,333.09	
33 14 13 53-0217	EA	24" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	4,197.10	
33 14 13 53-0218	EA	24" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	4,252.27	
33 14 13 53-0219	EA	24" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	4,447.66	
33 14 13 53-0220	EA	24" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	5,401.70	
33 14 13 53-0221	EA	24" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663).....	5,911.98	
33 14 13 53-0222 Ductile Iron Body, Flanged Coupling Adapter (33 14 13 53)				
33 14 13 53-0223	EA	3" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912).....	367.60	79.16
33 14 13 53-0224	EA	4" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912).....	460.87	99.80
33 14 13 53-0225	EA	6" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912).....	609.00	137.67
33 14 13 53-0226	EA	8" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912).....	781.49	161.76
33 14 13 53-0227	EA	10" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912).....	1,193.89	182.41
33 14 13 53-0228	EA	12" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912).....	1,335.02	206.50
33 14 13 53-0229 Steel Body, Flanged Coupling Adapter (33 14 13 53)				
33 14 13 53-0230	EA	3" Steel Body, Flanged Coupling Adapter (Smith-Blair 913).....	519.46	79.16
33 14 13 53-0231	EA	4" Steel Body, Flanged Coupling Adapter (Smith-Blair 913).....	617.13	99.80
33 14 13 53-0232	EA	6" Steel Body, Flanged Coupling Adapter (Smith-Blair 913).....	826.06	137.67
33 14 13 53-0233	EA	8" Steel Body, Flanged Coupling Adapter (Smith-Blair 913).....	1,007.40	161.76
33 14 13 53-0234	EA	10" Steel Body, Flanged Coupling Adapter (Smith-Blair 913).....	1,222.87	182.41
33 14 13 53-0235	EA	12" Steel Body, Flanged Coupling Adapter (Smith-Blair 913).....	1,422.17	206.50
33 14 13 53-0236	EA	14" Steel Body, Flanged Coupling Adapter (Smith-Blair 913).....	1,681.17	227.15
33 14 13 53-0237	EA	16" Steel Body, Flanged Coupling Adapter (Smith-Blair 913).....	1,981.20	247.80
33 14 13 53-0238	EA	18" Steel Body, Flanged Coupling Adapter (Smith-Blair 913).....	2,330.40	272.58
33 14 13 53-0239	EA	20" Steel Body, Flanged Coupling Adapter (Smith-Blair 913).....	2,743.49	299.84
33 14 13 53-0240 Steel Body, Flanged-Lock Restrained Coupling Adapters (33 14 13 53)				
33 14 13 53-0241	EA	4" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	471.03	99.80
33 14 13 53-0242	EA	6" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	634.07	137.67
33 14 13 53-0243	EA	8" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	706.47	161.76
33 14 13 53-0244	EA	10" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	1,006.33	182.41
33 14 13 53-0245	EA	12" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	1,269.63	206.50
33 14 13 53-0246	EA	14" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	1,421.94	227.15
33 14 13 53-0247	EA	16" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	1,662.48	247.80
33 14 13 53-0248	EA	18" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	1,863.12	272.58
33 14 13 53-0249	EA	20" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	2,226.09	299.84
33 14 13 53-0250	EA	24" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	2,666.86	329.85
33 14 13 53-0251	EA	30" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	5,402.83	362.76
33 14 13 53-0252	EA	36" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911).....	7,249.29	399.10
33 14 13 53-0253 Ductile Iron Body, Omni Coupling System (33 14 13 53)				
33 14 13 53-0254	EA	2" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	175.23	55.06
33 14 13 53-0255	EA	2-1/2" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	214.95	65.40
33 14 13 53-0256	EA	3" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	265.27	79.16
33 14 13 53-0257	EA	4" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	333.31	99.80
33 14 13 53-0258	EA	6" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	446.81	137.67
33 14 13 53-0259	EA	8" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	540.27	161.76
33 14 13 53-0260	EA	10" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	665.75	182.41
33 14 13 53-0261	EA	12" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	775.36	206.50
33 14 13 53-0262	EA	14" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	1,060.49	227.15
33 14 13 53-0263	EA	16" Ductile Iron Body, Omni Coupling System (Smith-Blair 441).....	1,306.27	247.80

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 14 19 Valves and Hydrants for Water Utility Service (33 14)

Note: Flanged valves excludes bolt and gasket set. Excludes excavation and backfill.

33 14 19 00-0001 Water Utility Distribution Valves (33 14 19)**33 14 19 00-0002 Angle Valves (33 14 19 00-0001)**

Note: For connecting meters to water service.

33 14 19 00-0003 Threaded, Class 150, Bronze Angle Valve (33 14 19 00-0002)

Note: Nibco T-335Y

33 14 19 00-0004	EA	1/2" Threaded, Class 150, Bronze Angle Valve	111.40	23.66
33 14 19 00-0005	EA	3/4" Threaded, Class 150, Bronze Angle Valve	150.23	31.79
33 14 19 00-0006	EA	1" Threaded, Class 150, Bronze Angle Valve	200.17	39.19
33 14 19 00-0007	EA	1-1/4" Threaded, Class 150, Bronze Angle Valve	257.32	49.24
33 14 19 00-0008	EA	1-1/2" Threaded, Class 150, Bronze Angle Valve	319.00	56.92
33 14 19 00-0009	EA	2" Threaded, Class 150, Bronze Angle Valve	467.08	66.54
33 14 19 00-0010	EA	2-1/2" Threaded, Class 150, Bronze Angle Valve	739.64	90.80
33 14 19 00-0011	EA	3" Threaded, Class 150, Bronze Angle Valve	1,106.27	104.83

33 14 19 00-0012 Butterfly Valves (33 14 19 00-0001)**33 14 19 00-0013 Lug Type Flanged, Cast Iron Disc, Butterfly Valves (33 14 19 00-0012)**

Note: ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, 304 Stainless Steel Pin

33 14 19 00-0014	EA	3" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,3,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8)	2,177.27	251.38
33 14 19 00-0015	EA	3" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,3,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8)	2,414.55	251.38
33 14 19 00-0016	EA	4" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,4,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8)	2,371.40	388.96
33 14 19 00-0017	EA	4" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,4,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8)	2,608.68	388.96
33 14 19 00-0018	EA	6" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,6,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8)	2,698.91	438.70
33 14 19 00-0019	EA	6" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,6,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8)	2,936.19	438.70
33 14 19 00-0020	EA	8" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,8,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8)	3,062.02	560.56
33 14 19 00-0021	EA	8" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,8,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8)	3,298.12	560.56
33 14 19 00-0022	EA	10" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,10,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8)	3,836.81	682.42
33 14 19 00-0023	EA	10" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,10,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8)	4,829.96	682.42
33 14 19 00-0024	EA	12" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,12,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8)	4,400.95	827.15
33 14 19 00-0025	EA	12" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,12,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8)	4,638.23	827.15
33 14 19 00-0026	EA	14" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,14,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD12)	5,831.30	1,101.09
33 14 19 00-0027	EA	14" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,14,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW12)	6,451.79	1,101.09
33 14 19 00-0028	EA	16" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,16,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD16)	6,782.81	1,211.21
33 14 19 00-0029	EA	16" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,16,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW20)	7,544.48	1,211.21
33 14 19 00-0030	EA	18" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,18,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD24)	8,481.99	1,343.34
33 14 19 00-0031	EA	18" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,18,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW24)	9,288.74	1,343.34
33 14 19 00-0032	EA	20" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,20,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD24)	9,716.82	1,514.01
33 14 19 00-0033	EA	20" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,20,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW24)	10,522.38	1,514.01



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Water Utility Transmission and Distribution			33 14	

MINOR CSI UOM DESCRIPTION				TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0034 Lug Type Flanged, Ductile Iron Disc, Butterfly Valves (33 14 19 00-0012)					
Note: ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, 304 Stainless Steel Pin					
33 14 19 00-0035	EA	24" Chainwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S2*GS-12A-CW20)	15,832.16	1,858.10	
33 14 19 00-0036	EA	24" Cylinder Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S2*GS-12-PC10)	24,426.44	1,858.10	
33 14 19 00-0037	EA	24" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S2*GS-12A-HD20)	15,783.51	1,858.10	
33 14 19 00-0038	EA	30" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,30,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD24)	32,744.68	2,973.62	
33 14 19 00-0039	EA	36" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,36,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD24)	38,692.51	3,964.83	
33 14 19 00-0040	EA	42" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,42,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD32)	48,840.60	5,947.25	
33 14 19 00-0041	EA	48" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,48,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR4L-HD24)	66,465.19	7,434.05	
33 14 19 00-0042	EA	54" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,54,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR6L-HD24)	105,568.35	8,920.86	
33 14 19 00-0043	EA	60" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,60,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR6L-HD36)	132,325.01	10,705.04	
33 14 19 00-0044	EA	72" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,72,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR8L-HD36)	189,779.73	12,846.05	
33 14 19 00-0045	LF	3/16" Link, 316 Stainless Steel Chain For Use With Dezurik Chainwheel	26.78		
33 14 19 00-0046	EA	316 Stainless Steel Closing Link For Use With Dezurik Chainwheel	11.72		
Note: One required per valve.					
33 14 19 00-0047 Check Valves (33 14 19 00-0001)					
33 14 19 00-0048 Flanged, Swing Type Gravity Operated Check Valves (33 14 19 00-0047)					
Note: AWWA C508. Bronze disc facing. Mueller A-2600-6.					
33 14 19 00-0049	EA	2-1/2" Flanged, Swing Type Gravity Operated Check Valve	1,081.13	197.40	
33 14 19 00-0050	EA	3" Flanged, Swing Type Gravity Operated Check Valve	1,123.26	231.44	
33 14 19 00-0051	EA	4" Flanged, Swing Type Gravity Operated Check Valve	1,609.70	292.70	
33 14 19 00-0052	EA	4" x 6" Flanged, Swing Type Gravity Operated Check Valve	2,160.49	440.41	
33 14 19 00-0053	EA	4" x 8" Flanged, Swing Type Gravity Operated Check Valve	2,257.58	491.85	
33 14 19 00-0054	EA	6" Flanged, Swing Type Gravity Operated Check Valve	2,161.39	490.10	
33 14 19 00-0055	EA	6" x 8" Flanged, Swing Type Gravity Operated Check Valve	2,790.88	557.10	
33 14 19 00-0056	EA	6" x 10" Flanged, Swing Type Gravity Operated Check Valve	2,928.75	626.24	
33 14 19 00-0057	EA	8" Flanged, Swing Type Gravity Operated Check Valve	3,041.65	626.24	
33 14 19 00-0058	EA	10" Flanged, Swing Type Gravity Operated Check Valve	5,014.73	762.37	
33 14 19 00-0059	EA	12" Flanged, Swing Type Gravity Operated Check Valve	7,501.66	571.78	
33 14 19 00-0060	EA	14" Flanged, Swing Type Gravity Operated Check Valve	10,369.24	1,101.09	
33 14 19 00-0061	EA	16" Flanged, Swing Type Gravity Operated Check Valve	13,702.24	1,211.21	
33 14 19 00-0062	EA	18" Flanged, Swing Type Gravity Operated Check Valve	19,731.30	1,343.34	
33 14 19 00-0063	EA	20" Flanged, Swing Type Gravity Operated Check Valve	22,954.68	1,514.01	
33 14 19 00-0064 Combination Air Release Valves (33 14 19 00-0001)					
33 14 19 00-0065	EA	1" Combination Air Release Valve	473.44	28.59	
33 14 19 00-0066	EA	2" Combination Air Release Valve	767.05	49.01	
33 14 19 00-0067 Corporation Stop And Curb Valve (33 14 19 00-0001)					
Note: AWWA C800					
33 14 19 00-0068 Ball Corporation Valves (33 14 19 00-0067)					
Note: Mueller B-25000.					
33 14 19 00-0069	EA	3/4" Ball Corporation Valve (Mueller B-25000)	94.10	28.59	
33 14 19 00-0070	EA	1" Ball Corporation Valve (Mueller B-25000)	117.80	35.39	
33 14 19 00-0071	EA	1-1/2" Ball Corporation Valve (Mueller B-25000)	203.61	51.74	
33 14 19 00-0072	EA	2" Ball Corporation Valve (Mueller B-25000)	296.44	61.26	
33 14 19 00-0073 Gate Valve, AWWA C500 And C509 (33 14 19 00-0001)					
33 14 19 00-0074 Gate Valve, Flanged (33 14 19 00-0073)					
Note: Mueller A-2380-6.					
33 14 19 00-0075	EA	2" Gate Valve, Flanged	697.21	181.47	
33 14 19 00-0076	EA	2-1/2" Gate Valve, Flanged	809.10	197.40	
33 14 19 00-0077	EA	3" Gate Valve, Flanged	956.09	231.44	

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0078 EA 4" Gate Valve, Flanged.....	1,324.67	289.97
33 14 19 00-0079 EA 6" Gate Valve, Flanged.....	1,610.35	490.10
33 14 19 00-0080 EA 8" Gate Valve, Flanged.....	2,333.64	626.24
33 14 19 00-0081 EA 10" Gate Valve, Flanged.....	3,425.16	762.37
33 14 19 00-0082 EA 12" Gate Valve, Flanged.....	4,128.39	571.78
33 14 19 00-0083 EA 14" Gate Valve, Flanged.....	8,504.88	1,101.09
33 14 19 00-0084 EA 16" Gate Valve, Flanged.....	11,039.80	1,211.21
33 14 19 00-0085 EA 18" Gate Valve, Flanged.....	17,271.24	1,343.34
33 14 19 00-0086 EA 20" Gate Valve, Flanged.....	20,618.90	1,514.01
33 14 19 00-0087 Resilient Wedge Gate Valve, Flanged (33 14 19 00-0073)		
Note: Mueller A-2360-6.		
33 14 19 00-0088 EA 2" Resilient Wedge Gate Valve, Flanged.....	670.60	181.47
33 14 19 00-0089 EA 2-1/2" Resilient Wedge Gate Valve, Flanged.....	777.32	197.40
33 14 19 00-0090 EA 3" Resilient Wedge Gate Valve, Flanged.....	918.37	231.44
33 14 19 00-0091 EA 4" Resilient Wedge Gate Valve, Flanged.....	1,282.51	289.97
33 14 19 00-0092 EA 6" Resilient Wedge Gate Valve, Flanged.....	1,553.98	490.10
33 14 19 00-0093 EA 8" Resilient Wedge Gate Valve, Flanged.....	2,245.59	626.24
33 14 19 00-0094 EA 10" Resilient Wedge Gate Valve, Flanged.....	3,285.24	762.37
33 14 19 00-0095 EA 12" Resilient Wedge Gate Valve, Flanged.....	3,959.45	571.78
33 14 19 00-0096 Gate Valve, Mechanical Joint (33 14 19 00-0073)		
Note: Mueller A-2380-20.		
33 14 19 00-0097 EA 2" Gate Valve, Mechanical Joint.....	826.54	144.99
33 14 19 00-0098 EA 2-1/2" Gate Valve, Mechanical Joint.....	914.24	181.74
33 14 19 00-0099 EA 3" Gate Valve, Mechanical Joint.....	1,142.26	219.86
33 14 19 00-0100 EA 4" Gate Valve, Mechanical Joint.....	1,383.54	289.97
33 14 19 00-0101 EA 6" Gate Valve, Mechanical Joint.....	1,720.90	340.34
33 14 19 00-0102 EA 8" Gate Valve, Mechanical Joint.....	2,435.10	408.41
33 14 19 00-0103 EA 10" Gate Valve, Mechanical Joint.....	3,467.86	476.48
33 14 19 00-0104 EA 12" Gate Valve, Mechanical Joint.....	4,322.28	571.78
33 14 19 00-0105 EA 14" Gate Valve, Mechanical Joint.....	9,006.18	674.42
33 14 19 00-0106 EA 16" Gate Valve, Mechanical Joint.....	11,581.56	757.00
33 14 19 00-0107 EA 18" Gate Valve, Mechanical Joint.....	18,241.49	839.59
33 14 19 00-0108 EA 20" Gate Valve, Mechanical Joint.....	21,665.91	946.25
33 14 19 00-0109 Resilient Wedge Gate Valve, Mechanical Joint (33 14 19 00-0073)		
Note: Mueller A-2360-20.		
33 14 19 00-0110 EA 2" Resilient Wedge Gate Valve, Mechanical Joint.....	796.16	144.99
33 14 19 00-0111 EA 3" Resilient Wedge Gate Valve, Mechanical Joint.....	1,102.49	219.86
33 14 19 00-0112 EA 4" Resilient Wedge Gate Valve, Mechanical Joint.....	1,338.05	289.97
33 14 19 00-0113 EA 6" Resilient Wedge Gate Valve, Mechanical Joint.....	1,662.03	340.34
33 14 19 00-0114 EA 8" Resilient Wedge Gate Valve, Mechanical Joint.....	2,343.51	408.41
33 14 19 00-0115 EA 10" Resilient Wedge Gate Valve, Mechanical Joint.....	3,325.51	476.48
33 14 19 00-0116 EA 12" Resilient Wedge Gate Valve, Mechanical Joint.....	4,142.33	571.78
33 14 19 00-0117 Resilient Wedge Gate Valve, Mechanical Joint X Flange Joint (33 14 19 00-0073)		
Note: Mueller A-2361.		
33 14 19 00-0118 EA 14" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....	8,083.29	1,101.09
33 14 19 00-0119 EA 16" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....	8,790.57	1,211.21
33 14 19 00-0120 EA 18" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....	13,587.68	1,343.34
33 14 19 00-0121 EA 20" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....	16,198.19	1,514.01
33 14 19 00-0122 EA 24" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....	22,943.42	1,858.10
33 14 19 00-0123 Gate Valve, Threaded, WW-V-51 Class A, Type 1 (33 14 19 00-0073)		
Note: NIBCO T-113.		
33 14 19 00-0124 EA 1/4" Gate Valve, Bronze, Threaded.....	68.74	23.81
33 14 19 00-0125 EA 3/8" Gate Valve, Bronze, Threaded.....	71.00	23.81
33 14 19 00-0126 EA 1/2" Gate Valve, Bronze, Threaded.....	70.95	23.81
33 14 19 00-0127 EA 3/4" Gate Valve, Bronze, Threaded.....	92.00	32.16
33 14 19 00-0128 EA 1" Gate Valve, Bronze, Threaded.....	113.12	38.89
33 14 19 00-0129 EA 1-1/4" Gate Valve, Bronze, Threaded.....	152.17	49.24
33 14 19 00-0130 EA 1-1/2" Gate Valve, Bronze, Threaded.....	176.44	56.92
33 14 19 00-0131 EA 2" Gate Valve, Bronze, Threaded.....	213.29	66.54
33 14 19 00-0132 EA 2-1/2" Gate Valve, Bronze, Threaded.....	393.85	90.80
33 14 19 00-0133 EA 3" Gate Valve, Bronze, Threaded.....	470.30	104.15
33 14 19 00-0134 Globe Valve, AWWA (33 14 19 00-0001)		
33 14 19 00-0135 Globe Valve, Threaded, WW-V-51 Class B, Type 1 (33 14 19 00-0134)		
Note: NIBCO T-235.		
33 14 19 00-0136 EA 1/8" Globe Valve, Threaded.....	94.33	23.81
33 14 19 00-0137 EA 1/4" Globe Valve, Threaded.....	89.77	23.81
33 14 19 00-0138 EA 3/8" Globe Valve, Threaded.....	92.03	23.81
33 14 19 00-0139 EA 1/2" Globe Valve, Threaded.....	94.33	23.81
33 14 19 00-0140 EA 3/4" Globe Valve, Threaded.....	128.02	32.16



Utilities			33	CS
Water Utilities			33 10	
Water Utility Transmission and Distribution			33 14	

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
33 14 19 00-0141	EA	1" Globe Valve, Threaded.....	176.87	38.89
33 14 19 00-0142	EA	1-1/4" Globe Valve, Threaded	255.20	49.24
33 14 19 00-0143	EA	1-1/2" Globe Valve, Threaded	303.79	56.92
33 14 19 00-0144	EA	2" Globe Valve, Threaded.....	418.20	66.54
33 14 19 00-0145	EA	2-1/2" Globe Valve, Threaded	753.74	90.80
33 14 19 00-0146	EA	3" Globe Valve, Threaded.....	1,023.30	104.69
33 14 19 00-0147		Tapping Valve, AWWA C500 And C509 (33 14 19 00-0001)		
33 14 19 00-0148		Tapping Valve, AWWA C500 And C509 (33 14 19 00-0147)		
Note: Flanged inlet X mechanical joint, Mueller H-667.				
33 14 19 00-0149	EA	2" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	950.77	181.47
33 14 19 00-0150	EA	3" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	1,224.02	231.44
33 14 19 00-0151	EA	4" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	1,583.47	289.97
33 14 19 00-0152	EA	6" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	2,005.83	490.10
33 14 19 00-0153	EA	8" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	2,840.84	626.24
33 14 19 00-0154	EA	10" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	4,041.53	762.37
33 14 19 00-0155	EA	12" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	5,863.97	571.78
33 14 19 00-0156	EA	14" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	10,290.10	1,101.09
33 14 19 00-0157	EA	16" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	12,930.20	1,211.21
33 14 19 00-0158	EA	18" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint	20,623.23	1,343.34
33 14 19 00-0159		Accessories For Valves (33 14 19)		
33 14 19 00-0160	EA	1' Valve Extension Stem	129.06	
For Each Additional LF, Add			9.05	
33 14 19 00-0161	EA	Up to 80" Long Indicator Post Telescoping Barrel Assembly.....	1,651.06	136.14
Note: Excludes valve.				
33 14 19 00-0162	EA	>80" To 114" Long Indicator Post Telescoping Barrel Assembly	1,870.83	149.75
Note: Excludes valve.				
33 14 19 00-0163	EA	Adjust Water Valve Box To Grade	136.14	
33 14 19 00-0164		Utility Box (33 14 19)		
Note: Christy Concrete Products.				
33 14 19 00-0165		B3 Utility Box, 9-3/8" x 15-1/2" (33 14 19 00-0164)		
33 14 19 00-0166	EA	9-3/8" x 15-1/2" Precast Concrete Utility Box.....	129.86	67.22
33 14 19 00-0167	EA	Cast Iron Lid For 9-3/8" x 15-1/2" Utility Box.....	118.77	7.47
33 14 19 00-0168	EA	Reinforced Concrete Lid For 9-3/8" x 15-1/2" Utility Box	51.46	7.47
33 14 19 00-0169	EA	Steel Checkered Plate Cover For 9-3/8" x 15-1/2" Utility Box.....	255.61	7.47
33 14 19 00-0170	EA	12-1/8" x 18-5/8" Reinforced Concrete Slab For 9-3/8" x 15-1/2" Utility Box	74.98	14.94
33 14 19 00-0171	EA	3" High Reinforced Concrete Base For 9-3/8" x 15-1/2" Utility Box	104.72	14.94
33 14 19 00-0172		B9 Utility Box, 10-1/4" x 17-1/4" (33 14 19 00-0164)		
33 14 19 00-0173	EA	10-1/4" x 17-1/4" Precast Concrete Utility Box.....	159.42	89.64
33 14 19 00-0174	EA	Cast Iron Lid For 10-1/4" x 17-1/4" Utility Box.....	139.23	8.96
33 14 19 00-0175	EA	Reinforced Concrete Lid For 10-1/4" x 17-1/4" Utility Box	57.43	8.96
33 14 19 00-0176	EA	Steel Checkered Plate Cover For 10-1/4" x 17-1/4" Utility Box.....	267.99	7.47
33 14 19 00-0177	EA	13" x 19-3/4" Reinforced Concrete Slab For 10-1/4" x 17-1/4" Utility Box.....	83.16	14.94
33 14 19 00-0178	EA	5-3/4" High Reinforced Concrete Base For 10-1/4" x 17-1/4" Utility Box	112.48	22.41
33 14 19 00-0179	EA	12" High Reinforced Concrete Extension For 10-1/4" x 17-1/4" Utility Box.....	140.03	41.08
33 14 19 00-0180		B12 Utility Box, 12" x 20" (33 14 19 00-0164)		
33 14 19 00-0181	EA	12" x 20" Precast Concrete Utility Box.....	174.92	97.10
33 14 19 00-0182	EA	Cast Iron Lid For 12" x 20" Utility Box.....	248.41	11.21
33 14 19 00-0183	EA	Reinforced Concrete Lid For 12" x 20" Utility Box.....	78.39	14.94
33 14 19 00-0184	EA	Steel Checkered Plate Cover For 12" x 20" Utility Box	362.72	14.94
33 14 19 00-0185	EA	12" High Reinforced Concrete Extension For 12" x 20" Utility Box	181.99	52.29
33 14 19 00-0186		B16 Utility Box, 12" x 22-1/4" (33 14 19 00-0164)		
33 14 19 00-0187	EA	12" x 22-1/4" Precast Concrete Utility Box.....	201.75	113.53
33 14 19 00-0188	EA	Cast Iron Lid For 12" x 22-1/4" Utility Box.....	281.74	14.94
33 14 19 00-0189	EA	Reinforced Concrete Lid For 12" x 22-1/4" Utility Box	95.25	14.94
33 14 19 00-0190	EA	Steel Checkered Plate Cover For 12" x 22-1/4" Utility Box	364.73	14.94
33 14 19 00-0191	EA	16" x 27" Reinforced Concrete Slab For 12" x 22-1/4" Utility Box.....	135.79	25.40
33 14 19 00-0192	EA	12" High Reinforced Concrete Extension For 12" x 22-1/4" Utility Box.....	184.79	52.29
33 14 19 00-0193		B30 Utility Box, 13-1/4" x 24" (33 14 19 00-0164)		
33 14 19 00-0194	EA	13-1/4" x 24" Precast Concrete Utility Box (Christy B30BOX)	242.51	134.45
33 14 19 00-0195	EA	Reinforced Concrete Lid For 13-1/4" x 24" Utility Box (Christy B30D).....	130.03	23.91
33 14 19 00-0196	EA	Steel Checkered Plate Cover For 13-1/4" x 24" Utility Box (Christy B30-61G).....	451.33	19.42
33 14 19 00-0197	EA	16" x 27" Reinforced Concrete Slab For 13-1/4" x 24" Utility Box (Christy B30SL).....	135.79	25.40
33 14 19 00-0198	EA	5-1/2" High Reinforced Concrete Base For 13-1/4" x 24" Utility Box (Christy B30BA).....	209.38	41.83
33 14 19 00-0199	EA	6" High Reinforced Concrete Extension For 13-1/4" x 24" Utility Box (Christy B30X6).....	161.53	28.38
33 14 19 00-0200	EA	12" High Reinforced Concrete Extension For 13-1/4" x 24" Utility Box (Christy B30X12).....	239.21	67.22

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0201 B36 Utility Box, 17-1/4" x 30" (33 14 19 00-0164)				
33 14 19 00-0202	EA	17-1/4" x 30" Precast Concrete Utility Box (Christy B36BOX)	315.68	170.30
33 14 19 00-0203	EA	Reinforced Concrete Lid For 17-1/4" x 30" Utility Box (Christy B36D)	212.86	41.08
33 14 19 00-0204	EA	Steel Checkered Plate Cover For 17-1/4" x 30" Utility Box (Christy B36-1D)	567.64	28.38
33 14 19 00-0205	EA	20" x 34" Reinforced Concrete Slab For 17-1/4" x 30" Utility Box (Christy B36SL)	199.55	53.78
33 14 19 00-0206	EA	6" High Reinforced Concrete Base For 17-1/4" x 30" Utility Box (Christy B36BA)	323.26	59.75
33 14 19 00-0207	EA	12" High Reinforced Concrete Extension For 17-1/4" x 30" Utility Box (Christy B36X12)	317.95	86.65
33 14 19 00-0208 B40 Utility Box, 24-1/2" x 36" (33 14 19 00-0164)				
33 14 19 00-0209	EA	24-1/2" x 36" Precast Concrete Utility Box	632.51	262.93
33 14 19 00-0210	EA	Reinforced Concrete Lid For 24-1/2" x 36" Utility Box	576.13	98.59
33 14 19 00-0211	EA	Steel Checkered Plate Cover For 24-1/2" x 36" Utility Box	807.65	43.32
33 14 19 00-0212	EA	30" x 40" Reinforced Concrete Slab For 24-1/2" x 36" Utility Box	476.61	92.63
33 14 19 00-0213	EA	10" High Reinforced Concrete Extension For 24-1/2" x 36" Utility Box	505.13	97.10
33 14 19 00-0214 B48 Utility Box, 30-1/4" x 48-1/4" (33 14 19 00-0164)				
33 14 19 00-0215	EA	30-1/4" x 48-1/4" Precast Concrete Utility Box	814.23	298.77
33 14 19 00-0216	EA	1 Piece Reinforced Concrete Lid For 30-1/4" x 48-1/4" Utility Box	806.58	162.83
33 14 19 00-0217	EA	2 Piece Reinforced Concrete Lid For 30-1/4" x 48-1/4" Utility Box	997.38	162.83
33 14 19 00-0218	EA	2 Piece Steel Checkered Plate Cover For 30-1/4" x 48-1/4" Utility Box	1,281.45	74.70
33 14 19 00-0219	EA	36" x 53" Reinforced Concrete Slab For 30-1/4" x 48-1/4" Utility Box	723.60	201.67
33 14 19 00-0220	EA	10" High Reinforced Concrete Extension For 30-1/4" x 48-1/4" Utility Box	631.67	135.94
33 14 19 00-0221 Fire Hydrants (33 14 19)				
Note: Breakaway type.				
33 14 19 00-0222 Three Way, Standard (Traditional) Model Fire Hydrant (33 14 19 00-0221)				
Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).				
33 14 19 00-0223	EA	1-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,622.11	341.20
33 14 19 00-0224	EA	2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,688.62	341.20
33 14 19 00-0225	EA	2-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,755.30	341.20
33 14 19 00-0226	EA	3' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,846.04	365.58
33 14 19 00-0227	EA	3-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,912.62	365.58
33 14 19 00-0228	EA	4' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,009.72	396.04
33 14 19 00-0229	EA	4-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,076.19	396.04
33 14 19 00-0230	EA	5' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,173.32	426.51
33 14 19 00-0231	EA	5-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,239.89	426.51
33 14 19 00-0232	EA	6' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,336.82	456.97
33 14 19 00-0233	EA	6-1/2' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,433.84	487.44
33 14 19 00-0234	EA	7' Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,561.22	548.37
33 14 19 00-0235	EA	1-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,682.81	341.20
33 14 19 00-0236	EA	2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,769.12	341.20
33 14 19 00-0237	EA	2-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,855.22	341.20
33 14 19 00-0238	EA	3' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	3,965.70	365.58
33 14 19 00-0239	EA	3-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,051.80	365.58
33 14 19 00-0240	EA	4' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,168.68	396.04
33 14 19 00-0241	EA	4-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,254.67	396.04
33 14 19 00-0242	EA	5' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,371.33	426.51
33 14 19 00-0243	EA	5-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,457.41	426.51
33 14 19 00-0244	EA	6' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,573.82	456.97
33 14 19 00-0245	EA	6-1/2' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,690.60	487.44
33 14 19 00-0246	EA	7' Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant	4,837.48	548.37
33 14 19 00-0247 Two Way, Standard (Traditional) Model Fire Hydrant (33 14 19 00-0221)				
Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).				
33 14 19 00-0248	EA	1-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,257.03	341.20
33 14 19 00-0249	EA	2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,323.31	341.20
33 14 19 00-0250	EA	2-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,389.97	341.20
33 14 19 00-0251	EA	3' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,480.99	365.58
33 14 19 00-0252	EA	3-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,547.35	365.58
33 14 19 00-0253	EA	4' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,644.30	396.04
33 14 19 00-0254	EA	4-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,710.87	396.04
33 14 19 00-0255	EA	5' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,808.06	426.51
33 14 19 00-0256	EA	5-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,874.49	426.51
33 14 19 00-0257	EA	6' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,971.78	456.97
33 14 19 00-0258	EA	6-1/2' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	4,068.38	487.44
33 14 19 00-0259	EA	7' Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	4,195.90	548.37
33 14 19 00-0260	EA	1-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,350.79	341.20
33 14 19 00-0261	EA	2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,436.91	341.20
33 14 19 00-0262	EA	2-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,522.90	341.20
33 14 19 00-0263	EA	3' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,633.60	365.58
33 14 19 00-0264	EA	3-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,719.48	365.58
33 14 19 00-0265	EA	4' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,836.21	396.04
33 14 19 00-0266	EA	4-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	3,922.14	396.04
33 14 19 00-0267	EA	5' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	4,039.08	426.51



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		Water Utility Transmission and Distribution	33 14	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0268 EA 5-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	4,124.96	426.51
33 14 19 00-0269 EA 6' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	4,241.67	456.97
33 14 19 00-0270 EA 6-1/2' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	4,358.03	487.44
33 14 19 00-0271 EA 7' Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant	4,505.38	548.37
33 14 19 00-0272 Three Way, Modern Model Fire Hydrant (33 14 19 00-0221) Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0273 EA 1-1/2' Burial Section, Three Way, Modern Type Fire Hydrant	3,777.33	341.20
33 14 19 00-0274 EA 2' Burial Section, Three Way, Modern Type Fire Hydrant	3,863.32	341.20
33 14 19 00-0275 EA 2-1/2' Burial Section, Three Way, Modern Type Fire Hydrant	3,949.57	341.20
33 14 19 00-0276 EA 3' Burial Section, Three Way, Modern Type Fire Hydrant	4,060.10	365.58
33 14 19 00-0277 EA 3-1/2' Burial Section, Three Way, Modern Type Fire Hydrant	4,146.15	365.58
33 14 19 00-0278 EA 4' Burial Section, Three Way, Modern Type Fire Hydrant	4,262.71	396.04
33 14 19 00-0279 EA 4-1/2' Burial Section, Three Way, Modern Type Fire Hydrant	4,348.88	396.04
33 14 19 00-0280 EA 5' Burial Section, Three Way, Modern Type Fire Hydrant	4,465.47	426.51
33 14 19 00-0281 EA 5-1/2' Burial Section, Three Way, Modern Type Fire Hydrant	4,551.55	426.51
33 14 19 00-0282 EA 6' Burial Section, Three Way, Modern Type Fire Hydrant	4,668.11	426.51
33 14 19 00-0283 EA 6-1/2' Burial Section, Three Way, Modern Type Fire Hydrant	4,784.94	487.44
33 14 19 00-0284 EA 7' Burial Section, Three Way, Modern Type Fire Hydrant	4,930.92	487.44
33 14 19 00-0285 Two Way, Modern Model Fire Hydrant (33 14 19 00-0221) Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0286 EA 1-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	2,699.07	341.20
33 14 19 00-0287 EA 2' Burial Section, Two Way, Modern Type Fire Hydrant	2,764.51	341.20
33 14 19 00-0288 EA 2-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	2,830.68	341.20
33 14 19 00-0289 EA 3' Burial Section, Two Way, Modern Type Fire Hydrant	2,919.73	365.58
33 14 19 00-0290 EA 3-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	2,985.15	365.58
33 14 19 00-0291 EA 4' Burial Section, Two Way, Modern Type Fire Hydrant	3,081.03	396.04
33 14 19 00-0292 EA 4-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	3,146.43	396.04
33 14 19 00-0293 EA 5' Burial Section, Two Way, Modern Type Fire Hydrant	3,242.40	426.51
33 14 19 00-0294 EA 5-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	3,307.63	426.51
33 14 19 00-0295 EA 6' Burial Section, Two Way, Modern Type Fire Hydrant	3,403.53	456.97
33 14 19 00-0296 EA 6-1/2' Burial Section, Two Way, Modern Type Fire Hydrant	3,499.51	487.44
33 14 19 00-0297 EA 7' Burial Section, Two Way, Modern Type Fire Hydrant	3,625.05	548.37
33 14 19 00-0298 Fire Hydrant Extension Kits (33 14 19 00-0221)		
33 14 19 00-0299 EA 6" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	569.06	30.46
33 14 19 00-0300 EA 12" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	677.07	38.08
33 14 19 00-0301 EA 18" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	740.56	45.70
33 14 19 00-0302 EA 24" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	843.94	56.36
33 14 19 00-0303 EA 30" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	1,261.30	58.65
33 14 19 00-0304 EA 36" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	1,346.30	60.93
33 14 19 00-0305 EA 42" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	1,367.82	63.98
33 14 19 00-0306 EA 48" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	1,445.19	68.54
33 14 19 00-0307 EA 54" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	1,596.59	82.26
33 14 19 00-0308 EA 60" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit	1,690.90	99.01
33 14 19 00-0309 EA 6" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	632.85	34.13
33 14 19 00-0310 EA 12" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	750.57	41.44
33 14 19 00-0311 EA 18" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	862.28	49.96
33 14 19 00-0312 EA 24" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	966.90	62.15
33 14 19 00-0313 EA 30" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	1,313.78	64.59
33 14 19 00-0314 EA 36" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	1,399.92	67.02
33 14 19 00-0315 EA 42" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	1,460.05	70.68
33 14 19 00-0316 EA 48" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	1,704.43	75.55
33 14 19 00-0317 EA 54" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	1,871.76	90.17
33 14 19 00-0318 EA 60" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit	1,973.68	108.46
33 14 19 00-0319 Removal And Reinstallation Of Standard Fire Hydrant (33 14 19 00-0221) Note: Includes all necessary fittings for resetting, storage and cleaning. Excludes excavation, backfill and thrust blocking around fire hydrant.		
33 14 19 00-0320 EA Up To 5' Burial Section, Removal And Reinstallation Of Fire Hydrant	974.87	
33 14 19 00-0321 EA >5' Burial Section, Removal And Reinstallation Of Fire Hydrant	1,421.69	
33 14 19 00-0322 EA Reset Fire Hydrant Upper Barrel	1,251.23	
Note: Includes Safety Repair Kit		
33 14 19 00-0323 Yard Hydrants (33 14 19) Note: With 3/4" hose thread outlet.		
33 14 19 00-0324 EA 2' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet	398.53	44.36
33 14 19 00-0325 EA 4' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet	426.06	44.36
33 14 19 00-0326 EA 6' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet	453.58	44.36
33 14 19 00-0327 EA 2' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet	356.69	56.19
33 14 19 00-0328 EA 4' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet	371.34	56.19
33 14 19 00-0329 EA 6' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet	385.99	56.19

33 Utilities**33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0330 Sanitary Yard Hydrants (33 14 19) Note: With 3/4" hose thread outlet.		
33 14 19 00-0331 EA 2' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	1,711.86	92.42
33 14 19 00-0332 EA 4' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	1,797.88	92.42
33 14 19 00-0333 EA 6' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	1,883.89	92.42
33 14 19 00-0334 Flushing Hydrants (33 14 19)		
33 14 19 00-0335 EA 2" Inlet x 2-1/2" Outlet Steel Flushing Hydrant, 3' Bury Depth	875.19	56.77
33 14 23 Enclosures for Water Utility Piping and Valves (33 14) Note: Excludes excavation and backfill.		
33 14 23 00-0001 Roadway Or Curb Valve Boxes (33 14 23)		
33 14 23 00-0002 Round Head, Cast Iron Service, Roadway Or Valve Boxes (33 14 23 00-0001)		
33 14 23 00-0003 EA 36" To 48" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	315.61	17.97
Note: Includes cover, top section and bottom section.		
33 14 23 00-0004 EA 36" To 54" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	367.72	17.97
Note: Includes cover, top section and bottom section.		
33 14 23 00-0005 EA 42" To 60" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	370.12	17.97
Note: Includes cover, top section and bottom section.		
33 14 23 00-0006 EA 9" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	93.57	8.98
33 14 23 00-0007 EA 16" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	107.37	8.98
33 14 23 00-0008 EA 24" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box	128.12	8.98
33 14 23 00-0009 EA 36" To 48" High, Screw Type, 4-1/4" Shaft, Round Head, Cast Iron Roadway Box.....	477.62	22.46
Note: Includes cover, top section and bottom section.		
33 14 23 00-0010 EA 45" To 54" High, Three Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	829.94	31.45
Note: Includes cover, top section, bottom section and #6 round base.		
33 14 23 00-0011 EA 45" To 66" High, Three Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	927.14	31.45
Note: Includes cover, top section, bottom section and #6 round base.		
33 14 23 00-0012 EA 24" To 36" High, Two Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	496.89	22.46
Note: Includes cover, top section and bottom section.		
33 14 23 00-0013 EA 36" To 48" High, Two Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....	520.12	22.46
Note: Includes cover, top section and bottom section.		
33 14 23 00-0014 EA 24" To 36" High, Two Piece, Slip Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	502.38	22.46
Note: Includes cover, top section and bottom section.		
33 14 23 00-0015 EA 12" Extension For Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box	181.77	8.98
33 14 23 00-0016 EA 18" To 24" High Round Head Cast Iron Roadway Or Curb Valve Boxes	302.52	36.97
33 14 23 00-0017 EA 22" To 28" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....	313.07	38.45
33 14 23 00-0018 EA 30" To 36" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....	348.59	39.92
33 14 23 00-0019 EA 36" To 48" High Round Head Cast Iron Roadway Or Curb Valve Box.....	482.22	42.15
33 14 23 00-0020 EA 48" To 60" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....	582.48	44.36
33 14 23 00-0021 EA 18" Cast Iron Service Box Extension Section	137.17	
33 14 23 00-0022 Plastic Roadway Grade Water Meter Box And Cover (33 14 23 00-0001)		
33 14 23 00-0023 EA 12" Wide x 16" Long x 16" Deep Plastic Meter Box And Cover	400.24	51.76
33 14 23 00-0024 EA 9-3/4" Wide x 19-1/4" Long x 16" Deep Oval Plastic Meter Box And Cover.....	301.20	36.97
33 14 23 00-0025 EA Cast Iron Lid For Plastic Meter Box	90.17	
33 14 23 00-0026 Traffic Valve Box And Lid (33 14 23 00-0001)		
33 14 23 00-0027 EA 10-3/8" ID x 12" Traffic Valve Box And 11" OD Cast Iron Lid (Christy G-5).....	236.66	
33 14 23 00-0028 EA 14-1/2" ID x 12" Traffic Valve Box And 13-1/4" OD Cast Iron Lid (Christy G-12).....	723.75	
33 30 Sanitary Sewerage Utilities (33)		
33 31 Sanitary Sewerage Piping (33 30)		
33 31 11 Public Sanitary Sewerage Gravity Piping (33 31) Note: Piping includes hydrostatic testing, disinfecting and warning tape. Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.		
33 31 11 00-0001 Plastic Sewer And Drain Piping (33 31 11)		
33 31 11 00-0002 Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe (33 31 11 00-0001)		
33 31 11 00-0003 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	9.79	3.99
33 31 11 00-0004 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	11.88	4.71
33 31 11 00-0005 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	16.49	5.71
33 31 11 00-0006 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	20.62	6.66
33 31 11 00-0007 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	28.22	7.75
33 31 11 00-0008 LF 8" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	37.85	9.01
33 31 11 00-0009 LF 10" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	51.76	9.32
33 31 11 00-0010 LF 12" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe	68.02	9.65
33 31 11 00-0011 Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe (33 31 11 00-0001) Note: D-2729 PVC pipe.		
33 31 11 00-0012 LF 3" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	13.06	5.71



		Utilities	33	
		Sanitary Sewerage Utilities	33 30	
		Sanitary Sewerage Piping	33 31	

MINOR			TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST	UNIT COST
33 31 11 00-0013	LF	4" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	15.38		6.66	
33 31 11 00-0014	LF	6" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	19.52		7.75	
33 31 11 00-0015	Polyvinyl Chloride (PVC) Sewer And Drain Fittings (33 31 11 00-0001)					
33 31 11 00-0016	1/4 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)					
33 31 11 00-0017	EA	1-1/2" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	29.69		15.66	
33 31 11 00-0018	EA	2" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	38.18		20.24	
33 31 11 00-0019	EA	3" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	65.30		27.19	
33 31 11 00-0020	EA	4" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	98.96		31.43	
33 31 11 00-0021	EA	6" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	376.99		40.85	
33 31 11 00-0022	EA	8" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	623.14		54.97	
33 31 11 00-0023	EA	10" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	822.78		73.20	
33 31 11 00-0024	1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)					
33 31 11 00-0025	EA	1-1/2" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	31.12		15.66	
33 31 11 00-0026	EA	2" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	38.06		20.24	
33 31 11 00-0027	EA	3" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	63.15		27.19	
33 31 11 00-0028	EA	4" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	88.46		31.43	
33 31 11 00-0029	EA	6" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	350.28		40.85	
33 31 11 00-0030	EA	8" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	561.04		54.97	
33 31 11 00-0031	EA	10" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	640.13		73.20	
33 31 11 00-0032	EA	12" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	949.13		97.50	
33 31 11 00-0033	Long Sweep 1/4 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)					
33 31 11 00-0034	EA	1-1/2" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	47.10		15.42	
33 31 11 00-0035	EA	2" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	48.20		20.24	
33 31 11 00-0036	EA	3" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	91.06		27.19	
33 31 11 00-0037	EA	4" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	146.19		31.43	
33 31 11 00-0038	EA	6" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	285.77		40.85	
33 31 11 00-0039	EA	8" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	503.25		54.97	
33 31 11 00-0040	EA	10" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	820.63		73.20	
33 31 11 00-0041	EA	12" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	1,241.24		97.50	
33 31 11 00-0042	1/16 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)					
33 31 11 00-0043	EA	1-1/2" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	34.17		15.66	
33 31 11 00-0044	EA	2" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	41.16		20.24	
33 31 11 00-0045	EA	3" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	72.07		27.19	
33 31 11 00-0046	EA	4" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	105.02		31.43	
33 31 11 00-0047	EA	6" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	465.87		40.85	
33 31 11 00-0048	EA	8" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	752.51		54.97	
33 31 11 00-0049	EA	10" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	852.23		73.20	
33 31 11 00-0050	EA	12" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	878.43		97.50	
33 31 11 00-0051	Reducers, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)					
33 31 11 00-0052	EA	2" x 1-1/2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	39.24		17.86	
33 31 11 00-0053	EA	3" x 1-1/2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	71.61		21.32	
33 31 11 00-0054	EA	3" x 2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	68.46		23.52	
33 31 11 00-0055	EA	4" x 2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	104.19		25.70	
33 31 11 00-0056	EA	4" x 3" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	112.36		29.16	
33 31 11 00-0057	EA	6" x 4" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	332.44		36.10	
33 31 11 00-0058	EA	8" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	700.02		47.86	
33 31 11 00-0059	EA	10" x 4" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	188.19		52.26	
33 31 11 00-0060	EA	10" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	256.76		57.00	
33 31 11 00-0061	EA	10" x 8" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	242.98		64.02	
33 31 11 00-0062	EA	12" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	732.18		69.20	
33 31 11 00-0063	EA	12" x 8" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	774.07		76.21	
33 31 11 00-0064	EA	12" x 10" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	820.80		85.35	
33 31 11 00-0065	Sanitary Tees, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)					
33 31 11 00-0066	EA	1-1/2" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	46.54		23.66	
33 31 11 00-0067	EA	2" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	61.68		30.60	
33 31 11 00-0068	EA	3" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	102.82		40.37	
33 31 11 00-0069	EA	4" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	155.65		50.14	
33 31 11 00-0070	EA	6" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	550.64		54.97	
33 31 11 00-0071	EA	8" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	715.17		73.20	
33 31 11 00-0072	Wyes, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)					
33 31 11 00-0073	EA	1-1/2" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	57.62		23.66	
33 31 11 00-0074	EA	2" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	68.12		30.60	
33 31 11 00-0075	EA	3" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	111.06		40.37	
33 31 11 00-0076	EA	4" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	169.14		50.14	

33 Utilities**33 30 Sanitary Sewerage Utilities****33 31 Sanitary Sewerage Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0077 EA 6" Wye, Polyvinyl Chloride (PVC) Sewer And Drain	500.07	54.97
33 31 11 00-0078 EA 8" Wye, Polyvinyl Chloride (PVC) Sewer And Drain	619.12	73.20
33 31 11 00-0079 EA 10" Wye, Polyvinyl Chloride (PVC) Sewer And Drain	814.72	97.69
33 31 11 00-0080 EA 12" Wye, Polyvinyl Chloride (PVC) Sewer And Drain	1,280.88	130.37
33 31 11 00-0081 Reducing Wyes, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)		
33 31 11 00-0082 EA 2" x 1-1/2" x 1-1/2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain	75.04	23.66
33 31 11 00-0083 EA 2" x 2" x 1" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain	85.06	30.60
33 31 11 00-0084 EA 3" x 3" x 2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain	99.61	40.37
33 31 11 00-0085 EA 4" x 4" x 2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain	150.65	50.14
33 31 11 00-0086 EA 4" x 4" x 3" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain	163.29	50.14
33 31 11 00-0087 Double Wyes, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)		
33 31 11 00-0088 EA 1-1/2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain	93.05	30.60
33 31 11 00-0089 EA 2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain	121.31	40.37
33 31 11 00-0090 EA 3" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain	238.52	54.49
33 31 11 00-0091 EA 4" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain	416.84	65.91
33 31 11 00-0092 EA 2" x 2" x 1-1/2" x 1-1/2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain	116.07	40.37
33 31 11 00-0093 EA 3" x 3" x 2" x 2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain	198.45	54.49
33 31 11 00-0094 EA 4" x 4" x 3" x 3" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain	350.65	65.91
33 31 11 00-0095 Combination Wye And 1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)		
33 31 11 00-0096 EA 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	71.46	23.66
33 31 11 00-0097 EA 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	89.71	30.60
33 31 11 00-0098 EA 3" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	175.93	40.37
33 31 11 00-0099 EA 4" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	314.64	50.14
33 31 11 00-0100 EA 2" x 2" x 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	136.70	30.60
33 31 11 00-0101 EA 3" x 3" x 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	218.49	40.37
33 31 11 00-0102 EA 3" x 3" x 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	159.29	40.37
33 31 11 00-0103 EA 4" x 4" x 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	294.68	50.14
33 31 11 00-0104 EA 4" x 4" x 3" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	312.93	50.14
33 31 11 00-0105 Double Combination Wye And 1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)		
33 31 11 00-0106 EA 1-1/2" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	103.78	30.60
33 31 11 00-0107 EA 2" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	122.51	40.37
33 31 11 00-0108 EA 3" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	189.26	54.49
33 31 11 00-0109 EA 4" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	665.62	65.91
33 31 11 00-0110 EA 6" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain	2,166.99	72.97
33 31 11 00-0111 Cleanout Tees With Plug, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)		
33 31 11 00-0112 EA 4" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain	530.01	119.46
33 31 11 00-0113 EA 6" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain	1,250.47	154.12
33 31 11 00-0114 EA 8" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain	1,594.97	217.18
33 31 11 00-0115 EA 10" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain	2,207.38	349.37
33 31 11 00-0116 Couplings, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)		
33 31 11 00-0117 EA 1-1/2" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	28.95	15.66
33 31 11 00-0118 EA 2" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	36.21	20.13
33 31 11 00-0119 EA 3" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	56.04	26.96
33 31 11 00-0120 EA 4" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	72.63	31.43
33 31 11 00-0121 EA 6" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	202.30	40.85
33 31 11 00-0122 EA 8" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	489.67	54.97
33 31 11 00-0123 EA 10" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	740.98	73.20
33 31 11 00-0124 EA 12" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain	1,221.51	97.50
33 31 11 00-0125 Adapters, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)		
33 31 11 00-0126 EA 4" Male, Plastic Pipe x Malleable Iron Pipe Adapter, Drain And Sewer Fitting	161.84	95.57
33 31 11 00-0127 EA 2" x 3" x 3" Downspout Adapter, Drain And Sewer Fitting	115.23	72.70
33 31 11 00-0128 EA 2" x 3" x 4" Downspout Adapter, Drain And Sewer Fitting	117.93	72.70
33 31 11 00-0129 EA 3" x 4" x 4" Downspout Adapter, Drain And Sewer Fitting	125.11	72.70
33 31 11 00-0130 EA 4" Hub, Cast Iron Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting	163.81	95.57
33 31 11 00-0131 EA 4" Spigot, Clay Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting	158.07	95.57
33 31 11 00-0132 EA 4" Spigot, Fiberglass Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting	148.63	95.57
33 31 11 00-0133 EA 4" Drain Grate, Drain And Sewer Fitting	80.69	49.14
33 31 11 00-0134 Caps, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)		
33 31 11 00-0135 EA 3" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting	41.73	16.83
33 31 11 00-0136 EA 4" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting	68.72	20.95



		Utilities	33	
		Sanitary Sewerage Utilities	33 30	
		Sanitary Sewerage Piping	33 31	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
33 31 11 00-0137	EA	6" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting.....	129.84		27.07
33 31 11 00-0138		Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)			
33 31 11 00-0139	EA	1-1/2" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	26.76		15.66
33 31 11 00-0140	EA	2" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	34.82		20.24
33 31 11 00-0141	EA	3" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	51.52		27.19
33 31 11 00-0142	EA	4" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	67.59		31.43
33 31 11 00-0143	EA	6" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	115.46		40.85
33 31 11 00-0144	EA	8" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	431.06		54.97
33 31 11 00-0145		Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe (33 31 11 00-0001)			
		Note: ASTM 3034.			
33 31 11 00-0146	LF	4" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....	16.29		6.66
33 31 11 00-0147	LF	6" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....	21.14		7.75
33 31 11 00-0148	LF	8" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....	27.63		9.01
33 31 11 00-0149	LF	10" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....	33.08		9.32
33 31 11 00-0150	LF	12" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....	39.63		9.65
33 31 11 00-0151	LF	15" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....	50.48		9.99
33 31 11 00-0152	LF	18" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....	62.88		10.35
33 31 11 00-0153	LF	21" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....	80.64		11.24
33 31 11 00-0154	LF	24" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....	97.09		12.13
33 31 11 00-0155	LF	27" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....	120.32		14.23
33 31 11 00-0156		Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe (33 31 11 00-0001)			
		Note: ASTM 3034.			
33 31 11 00-0157	LF	4" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe.....	17.16		6.66
33 31 11 00-0158	LF	6" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe.....	23.19		7.75
33 31 11 00-0159	LF	8" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe.....	31.48		9.01
33 31 11 00-0160		Gasketed SDR 35 Polyvinyl Chloride (PVC) Fittings (33 31 11 00-0001)			
		Note: ASTM 3034.			
33 31 11 00-0161		1/4 Bends, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0160)			
33 31 11 00-0162	EA	4" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	88.14		27.35
33 31 11 00-0163	EA	6" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	131.27		31.80
33 31 11 00-0164	EA	8" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	276.88		36.04
33 31 11 00-0165	EA	10" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	798.76		42.40
33 31 11 00-0166	EA	12" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,032.23		54.06
33 31 11 00-0167		1/8 Bends, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0160)			
33 31 11 00-0168	EA	4" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	79.39		27.35
33 31 11 00-0169	EA	6" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	121.62		31.80
33 31 11 00-0170	EA	8" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	252.49		36.04
33 31 11 00-0171	EA	10" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	569.18		42.40
33 31 11 00-0172	EA	12" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	813.94		54.06
33 31 11 00-0173	EA	15" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,748.02		76.32
33 31 11 00-0174	EA	18" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	2,774.42		108.12
33 31 11 00-0175	EA	21" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	4,632.05		143.09
33 31 11 00-0176	EA	24" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	6,316.22		190.79
33 31 11 00-0177		Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0160)			
33 31 11 00-0178	EA	4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	133.44		41.02
33 31 11 00-0179	EA	6" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	216.63		45.47
33 31 11 00-0180	EA	6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	243.73		47.69
33 31 11 00-0181	EA	8" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	269.30		49.92
33 31 11 00-0182	EA	8" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	308.83		52.15
33 31 11 00-0183	EA	8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	595.58		54.37
33 31 11 00-0184	EA	10" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	764.06		55.65
33 31 11 00-0185	EA	10" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	866.42		58.30
33 31 11 00-0186	EA	10" x 8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,281.66		60.52
33 31 11 00-0187	EA	10" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,671.86		63.60
33 31 11 00-0188	EA	12" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	940.21		67.73
33 31 11 00-0189	EA	12" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	998.30		69.96
33 31 11 00-0190	EA	12" x 8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,426.96		72.19
33 31 11 00-0191	EA	12" x 10" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	2,060.87		75.26
33 31 11 00-0192	EA	12" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	2,322.78		81.08
33 31 11 00-0193		Wyes, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0160)			
33 31 11 00-0194	EA	4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	126.66		41.02
33 31 11 00-0195	EA	6" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	194.01		45.47
33 31 11 00-0196	EA	6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	213.36		47.69
33 31 11 00-0197	EA	8" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	259.60		49.92
33 31 11 00-0198	EA	8" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	297.27		52.15
33 31 11 00-0199	EA	8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	457.38		54.37

33 Utilities**33 30 Sanitary Sewerage Utilities****33 31 Sanitary Sewerage Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0200 EA 10" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	698.42	56.08
33 31 11 00-0201 EA 10" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	712.35	58.30
33 31 11 00-0202 EA 10" x 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,074.22	60.52
33 31 11 00-0203 EA 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,188.97	63.60
33 31 11 00-0204 EA 12" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	885.45	67.73
33 31 11 00-0205 EA 12" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	913.25	69.96
33 31 11 00-0206 EA 12" x 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,310.38	72.19
33 31 11 00-0207 EA 12" x 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,580.04	75.26
33 31 11 00-0208 EA 12" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,649.52	81.08
33 31 11 00-0209 EA 15" x 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	2,033.08	97.52
33 31 11 00-0210 EA 15" x 12" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	2,256.03	103.35
33 31 11 00-0211 EA 15" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC)	2,821.96	114.47
33 31 11 00-0212 Couplings, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0160)		
33 31 11 00-0213 EA 4" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	87.36	27.35
33 31 11 00-0214 EA 6" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	136.42	31.80
33 31 11 00-0215 EA 8" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	202.10	36.25
33 31 11 00-0216 EA 10" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	385.15	42.40
33 31 11 00-0217 EA 12" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	547.02	54.06
33 31 11 00-0218 EA 15" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,072.53	76.32
33 31 11 00-0219 EA 18" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	2,020.43	108.12
33 31 11 00-0220 EA 21" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	3,374.69	143.09
33 31 11 00-0221 EA 24" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC)	4,886.75	190.79
33 31 11 00-0222 Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0160)		
33 31 11 00-0223 EA 6" x 4" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	169.20	29.58
33 31 11 00-0224 EA 8" x 4" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	243.38	31.80
33 31 11 00-0225 EA 8" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	256.61	34.02
33 31 11 00-0226 EA 10" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	581.53	37.10
33 31 11 00-0227 EA 10" x 8" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	668.65	39.32
33 31 11 00-0228 EA 12" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	747.20	42.93
33 31 11 00-0229 EA 12" x 8" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	857.94	45.15
33 31 11 00-0230 EA 12" x 10" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	984.03	48.23
33 31 11 00-0231 EA 15" x 12" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC)	1,482.18	65.18
33 31 11 00-0232 Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0160)		
33 31 11 00-0233 EA 6" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	139.36	
33 31 11 00-0234 EA 8" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	184.42	
33 31 11 00-0235 EA 8" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	188.61	
33 31 11 00-0236 EA 10" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	313.79	
33 31 11 00-0237 EA 10" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	331.33	
33 31 11 00-0238 EA 10" x 8" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	633.00	
33 31 11 00-0239 EA 12" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	357.14	
33 31 11 00-0240 EA 12" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	390.01	
33 31 11 00-0241 EA 12" x 8" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	877.07	
33 31 11 00-0242 EA 12" x 10" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	1,035.35	
33 31 11 00-0243 EA 15" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	408.59	
33 31 11 00-0244 EA 15" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	437.28	
33 31 11 00-0245 Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0160)		
33 31 11 00-0246 EA 6" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	149.18	
33 31 11 00-0247 EA 8" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	184.42	
33 31 11 00-0248 EA 8" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	201.98	
33 31 11 00-0249 EA 10" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	287.78	
33 31 11 00-0250 EA 10" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	329.22	
33 31 11 00-0251 EA 10" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	502.07	
33 31 11 00-0252 EA 12" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	355.05	
33 31 11 00-0253 EA 12" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	388.03	
33 31 11 00-0254 EA 12" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	583.88	
33 31 11 00-0255 EA 12" x 10" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	711.71	
33 31 11 00-0256 EA 15" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	407.30	
33 31 11 00-0257 EA 15" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	427.56	
33 31 11 00-0258 EA 15" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	717.15	
33 31 11 00-0259 EA 15" x 10" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	794.29	
33 31 11 00-0260 EA 15" x 12" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC)	1,125.82	
33 31 11 00-0261 Couplings And Plug Fittings (33 31 11)		
33 31 11 00-0262 Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Couplings (33 31 11 00-0261)		
Note: For cast iron or plastic to cast iron to plastic pipe. Includes stainless steel clamps.		
33 31 11 00-0263 EA 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-150)	23.98	8.96
33 31 11 00-0264 EA 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-22)	26.31	10.45
33 31 11 00-0265 EA 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-33)	30.18	11.95



		Utilities	33	CS
		Sanitary Sewerage Utilities	33 30	
		Sanitary Sewerage Piping	33 31	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0266	EA	4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-44)	34.00	12.70
33 31 11 00-0267	EA	5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-55)	40.89	13.44
33 31 11 00-0268	EA	6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-66)	47.83	14.94
33 31 11 00-0269	EA	8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-88)	59.62	16.43
33 31 11 00-0270	EA	10" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1010)	72.53	17.17
33 31 11 00-0271	EA	12" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1212)	115.76	17.93
33 31 11 00-0272	EA	15" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1515)	155.42	19.42
33 31 11 00-0273	EA	18" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1818)	293.02	20.16
33 31 11 00-0274	EA	21" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2121)	339.57	21.29
33 31 11 00-0275	EA	24" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2424)	375.70	22.41
33 31 11 00-0276	EA	27" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2727)	449.21	23.91

33 31 11 00-0277 Cast Iron Service Saddles With U Bolt (33 31 11)

33 31 11 00-0278	EA	2" Diameter x 2" Tapped Tee Cast Iron Service Saddles With U Bolt	128.83	
33 31 11 00-0279	EA	3" Diameter x 1-1/2" Tapped Tee Cast Iron Service Saddles With U Bolt	129.46	
33 31 11 00-0280	EA	3" Diameter x 2" Tapped Tee Cast Iron Service Saddles With U Bolt	142.59	
33 31 11 00-0281	EA	4" Diameter x 1-1/2" Tapped Tee Cast Iron Service Saddles With U Bolt	137.79	
33 31 11 00-0282	EA	4" Diameter x 2" Hub Tee Cast Iron Service Saddles With U Bolt	155.25	
33 31 11 00-0283	EA	4" Diameter x 3" Hub Tee Cast Iron Service Saddles With U Bolt	174.30	
33 31 11 00-0284	EA	4" Diameter x 4" Hub Tee Cast Iron Service Saddles With U Bolt	206.34	
33 31 11 00-0285	EA	6" Diameter x 2" Hub Tee Cast Iron Service Saddles With U Bolt	174.17	
33 31 11 00-0286	EA	6" Diameter x 3" Hub Tee Cast Iron Service Saddles With U Bolt	190.37	
33 31 11 00-0287	EA	6" Diameter x 4" Hub Tee Cast Iron Service Saddles With U Bolt	219.75	
33 31 11 00-0288	EA	4" Diameter x 1-1/2" Tapped Wye Cast Iron Service Saddle With U Bolt	141.36	
33 31 11 00-0289	EA	4" Diameter x 2" Tapped Wye Cast Iron Service Saddle With U Bolt	154.49	
33 31 11 00-0290	EA	4" Diameter x 3" Hub Wye Cast Iron Service Saddle With U Bolt	182.65	
33 31 11 00-0291	EA	4" Diameter x 4" Hub Wye Cast Iron Service Saddle With U Bolt	216.59	
33 31 11 00-0292	EA	6" Diameter x 4" Hub Wye Cast Iron Service Saddle With U Bolt	232.53	

33 31 11 00-0293 Manhole Inside Bowl Drop (33 31 11)

33 31 11 00-0294	EA	Inside Pipe Drop, 4" Outlet for 4' to 5' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A4DB)	336.14	
33 31 11 00-0295	EA	Inside Pipe Drop, 4" Outlet for 6' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A4R96)	352.05	
33 31 11 00-0296	EA	Inside Pipe Drop, 6" Outlet for 4' to 5' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A6DB)	361.64	
33 31 11 00-0297	EA	Inside Pipe Drop, 6" Outlet for 6' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A6R96)	373.76	
33 31 11 00-0298	EA	Inside Pipe Drop, 8" Outlet for 4' to 5' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A8DB)	389.02	
33 31 11 00-0299	EA	Inside Pipe Drop, 8" Outlet for 6' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A8DBR84)	416.55	
33 31 11 00-0300	EA	Inside Pipe Drop, 10" Outlet for 4' to 5' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A10DB)	434.61	
33 31 11 00-0301	EA	Inside Pipe Drop, 10" Outlet for 6' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A10R96)	448.37	
33 31 11 00-0302	EA	Inside Pipe Drop, 12" Outlet for 4' to 6' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner 24/12R60)	766.87	
33 31 11 00-0303	EA	Inside Pipe Drop, 12" Outlet for 7' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner 24/12R96)	787.52	

33 40 Stormwater Utilities (33)

33 41 Subdrainage (33 40)

33 41 16 Subdrainage Piping (33 41)

33 41 16 13 Subdrainage Piping (33 41 16)

See CSI section 33 42 11 00-0227 for polyethylene drain pipe.

33 41 16 13-0001 Corrugated High Density Polyethylene (HDPE) Drainage Piping (33 41 16 13)

33 41 16 13-0002 Single Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 41 16 13-0001)

Note: Excludes couplings and gaskets.

33 41 16 13-0003 Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 41 16 13-0002)

33 41 16 13-0004	LF	4" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	5.72	4.81
		For <100, Add	1.01	
		For >1,000, Deduct	-0.53	
33 41 16 13-0005	LF	6" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	7.18	5.15
		For <100, Add	1.13	
		For >1,000, Deduct	-0.62	
33 41 16 13-0006	LF	8" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	8.99	5.40
		For <100, Add	1.26	
		For >1,000, Deduct	-0.72	
33 41 16 13-0007	LF	10" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	12.20	5.58
		For <100, Add	1.45	
		For >1,000, Deduct	-0.89	
33 41 16 13-0008	LF	12" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	14.35	6.09
		For <100, Add	1.63	
		For >1,000, Deduct	-1.02	
33 41 16 13-0009	LF	15" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	18.90	6.87
		For <100, Add	1.98	
		For >1,000, Deduct	-1.29	
33 41 16 13-0010	LF	18" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe	30.11	11.28
		For <100, Add	3.20	
		For >1,000, Deduct	-2.07	

33 Utilities**33 40 Stormwater Utilities****33 41 Subdrainage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16 13-0011 LF 24" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe For <100, Add 3.95 For >1,000, Deduct -2.71	41.79	12.38
33 41 16 13-0012 Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 41 16 13-0002)		
33 41 16 13-0013 LF 4" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... For <100, Add 1.00 For >1,000, Deduct -0.52	5.59	4.81
33 41 16 13-0014 LF 6" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... For <100, Add 1.13 For >1,000, Deduct -0.61	7.12	5.15
33 41 16 13-0015 LF 8" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... For <100, Add 1.38 For >1,000, Deduct -0.84	11.45	5.40
33 41 16 13-0016 LF 10" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... For <100, Add 1.51 For >1,000, Deduct -0.95	13.50	5.58
33 41 16 13-0017 LF 12" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... For <100, Add 1.70 For >1,000, Deduct -1.09	15.77	6.09
33 41 16 13-0018 LF 15" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... For <100, Add 1.97 For >1,000, Deduct -1.28	18.75	6.87
33 41 16 13-0019 LF 18" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... For <100, Add 3.15 For >1,000, Deduct -2.02	29.18	11.28
33 41 16 13-0020 LF 24" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... For <100, Add 3.87 For >1,000, Deduct -2.63	40.30	12.38
33 41 16 13-0021 Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe Fittings (33 41 16 13-0001) Note: Excludes couplings and gaskets.		
33 41 16 13-0022 Tees, Single Wall, Corrugated High Density Polyethylene (HDPE) (33 41 16 13-0021)		
33 41 16 13-0023 EA 4" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	48.07	25.45
33 41 16 13-0024 EA 6" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	57.25	29.69
33 41 16 13-0025 EA 8" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	94.88	36.06
33 41 16 13-0026 EA 10" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	122.08	44.54
33 41 16 13-0027 EA 12" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	183.35	53.03
33 41 16 13-0028 EA 15" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	405.54	69.29
33 41 16 13-0029 EA 18" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	483.24	93.32
33 41 16 13-0030 EA 24" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	925.65	106.05
33 41 16 13-0031 Wyres, Single Wall, Corrugated High Density Polyethylene (HDPE) (33 41 16 13-0021)		
33 41 16 13-0032 EA 4" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE).....	49.54	25.45
33 41 16 13-0033 EA 6" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE).....	62.08	29.69
33 41 16 13-0034 EA 8" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE).....	145.38	36.06
33 41 16 13-0035 45 Degree Bends, Single Wall, Corrugated High Density Polyethylene (HDPE) (33 41 16 13-0021)		
33 41 16 13-0036 EA 4" 45 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	32.54	16.97
33 41 16 13-0037 90 Degree Bends, Single Wall, Corrugated High Density Polyethylene (HDPE) (33 41 16 13-0021)		
33 41 16 13-0038 EA 4" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	34.09	16.97
33 41 16 13-0039 EA 6" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	44.41	19.80
33 41 16 13-0040 EA 8" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	66.86	24.04
33 41 16 13-0041 EA 10" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	88.42	29.69
33 41 16 13-0042 Perforated Polyvinyl Chloride (PVC) Drainage Piping, D2729 (33 41 16 13) Note: Includes fittings, couplings, elbows, etc.		
33 41 16 13-0043 LF 3" Perforated Polyvinyl Chloride (PVC) Drainage Piping For <100, Add 1.14 For >1,000, Deduct -0.65	8.21	4.84
33 41 16 13-0044 LF 4" Perforated Polyvinyl Chloride (PVC) Drainage Piping For <100, Add 1.23 For >1,000, Deduct -0.71	8.98	5.23
33 41 16 13-0045 LF 6" Perforated Polyvinyl Chloride (PVC) Drainage Piping For <100, Add 1.58 For >1,000, Deduct -0.95	12.72	6.27
33 41 16 13-0046 LF 8" Perforated Polyvinyl Chloride (PVC) Drainage Piping For <100, Add 2.17 For >1,000, Deduct -1.39	19.89	7.84



		Utilities	33	
		Stormwater Utilities	33 40	
		Subdrainage	33 41	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16 13-0047 LF 10" Perforated Polyvinyl Chloride (PVC) Drainage Piping For <100, Add 2.84 For >1,000, Deduct -2.02	32.26	8.16
33 41 16 13-0048 LF 12" Perforated Polyvinyl Chloride (PVC) Drainage Piping For <100, Add 3.39 For >1,000, Deduct -2.50	41.17	8.90
33 41 16 13-0049 LF 15" Perforated Polyvinyl Chloride (PVC) Drainage Piping For <100, Add 4.35 For >1,000, Deduct -3.34	56.83	10.04
33 41 16 13-0050 Perforated Non Reinforced Concrete Drainage Piping, C444 (33 41 16 13)		
33 41 16 13-0051 LF 6" Perforated Non Reinforced Concrete Drainage Pipe For Extra Strength, Add 2.06 For >1,000, Deduct -1.73	34.67	11.97
33 41 16 13-0052 LF 8" Perforated Non Reinforced Concrete Drainage Pipe For Extra Strength, Add 2.54 For >1,000, Deduct -2.03	40.66	13.31
33 41 16 13-0053 LF 10" Perforated Non Reinforced Concrete Drainage Pipe For Extra Strength, Add 2.96 For >1,000, Deduct -2.31	46.10	14.64
33 41 16 13-0054 LF 12" Perforated Non Reinforced Concrete Drainage Pipe For Extra Strength, Add 3.71 For >1,000, Deduct -2.72	54.38	15.97
33 41 16 13-0055 Extra Strength Porous Non Reinforced Concrete Drainage Piping, C654 (33 41 16 13) Note: Bell and spigot or tongue and groove. With seals and gaskets.		
33 41 16 13-0056 LF 6" Extra Strength Porous Non Reinforced Concrete Drainage Pipe For >1,000, Deduct -1.41	28.27	11.97
33 41 16 13-0057 LF 8" Extra Strength Porous Non Reinforced Concrete Drainage Pipe For >1,000, Deduct -1.56	31.28	13.31
33 41 16 13-0058 LF 10" Extra Strength Porous Non Reinforced Concrete Drainage Pipe For >1,000, Deduct -1.73	34.51	14.64
33 41 16 13-0059 LF 12" Extra Strength Porous Non Reinforced Concrete Drainage Pipe For >1,000, Deduct -1.98	39.56	15.21
33 41 16 13-0060 LF 15" Extra Strength Porous Non Reinforced Concrete Drainage Pipe For >1,000, Deduct -2.31	46.14	17.11
33 41 16 13-0061 LF 18" Extra Strength Porous Non Reinforced Concrete Drainage Pipe For >1,000, Deduct -2.85	57.06	21.87
33 41 16 13-0062 LF 21" Extra Strength Porous Non Reinforced Concrete Drainage Pipe For >1,000, Deduct -3.56	71.21	28.05
33 41 16 13-0063 LF 24" Extra Strength Porous Non Reinforced Concrete Drainage Pipe For >1,000, Deduct -4.34	86.85	34.22
33 41 16 13-0064 Standard Strength Porous Non Reinforced Concrete Drainage Piping, C654 (33 41 16 13)		
33 41 16 13-0065 LF 6" Standard Strength Porous Non Reinforced Concrete Drainage Pipe For >1,000, Deduct -1.31	26.17	11.97
33 41 16 13-0066 LF 8" Standard Strength Porous Non Reinforced Concrete Drainage Pipe For >1,000, Deduct -1.68	33.62	13.31
33 41 16 13-0067 LF 10" Standard Strength Porous Non Reinforced Concrete Drainage Pipe For >1,000, Deduct -2.15	42.97	14.64
33 41 16 13-0068 LF 12" Standard Strength Porous Non Reinforced Concrete Drainage Pipe For >1,000, Deduct -2.63	52.51	15.97
33 41 16 13-0069 LF 15" Standard Strength Porous Non Reinforced Concrete Drainage Pipe For >1,000, Deduct -3.01	60.25	17.77
33 41 16 13-0070 LF 18" Standard Strength Porous Non Reinforced Concrete Drainage Pipe For >1,000, Deduct -3.91	78.26	22.16
33 41 16 13-0071 Perforated Vitrified Clay Drainage Piping, C700 (33 41 16 13)		
33 41 16 13-0072 LF 4" Perforated Vitrified Clay Drainage Pipe 33 41 16 13-0073 LF 6" Perforated Vitrified Clay Drainage Pipe 33 41 16 13-0074 LF 8" Perforated Vitrified Clay Drainage Pipe 33 41 16 13-0075 LF 10" Perforated Vitrified Clay Drainage Pipe 33 41 16 13-0076 LF 12" Perforated Vitrified Clay Drainage Pipe	24.55 29.24 33.17 44.30 52.50	13.31 14.97 14.97 18.30 19.96
33 41 16 13-0077 Geotextile Filter Fabric Sock (33 41 16 13)		
33 41 16 13-0078 LF 3" Geotextile Filter Fabric Sock 33 41 16 13-0079 LF 4" Geotextile Filter Fabric Sock 33 41 16 13-0080 LF 6" Geotextile Filter Fabric Sock 33 41 16 13-0081 LF 8" Geotextile Filter Fabric Sock 33 41 16 13-0082 LF 10" Geotextile Filter Fabric Sock 33 41 16 13-0083 LF 12" Geotextile Filter Fabric Sock 33 41 16 13-0084 LF 15" Geotextile Filter Fabric Sock	0.81 1.06 1.60 2.15 3.23 4.47 5.39	
33 41 16 13-0085 Strip-Perforated, Galvanized, Corrugated Steel Pipe (33 41 16 13) Note: Perforations are located in the bottom quarter points of the pipe.		

33 Utilities**33 40 Stormwater Utilities****33 41 Subdrainage**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16 13-0086	LF	6" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe.....	23.81	5.71
		<i>For Full Perforated, Add</i>	1.24	
33 41 16 13-0087	LF	8" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe.....	30.17	6.92
		<i>For Full Perforated, Add</i>	1.63	
33 41 16 13-0088	LF	10" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe.....	38.04	8.77
		<i>For Full Perforated, Add</i>	2.05	
33 41 16 13-0089	LF	12" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe.....	42.17	10.37
		<i>For Full Perforated, Add</i>	2.14	
33 41 16 13-0090	LF	15" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe.....	48.41	10.74
		<i>For Full Perforated, Add</i>	2.69	
33 41 16 13-0091	LF	18" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe.....	54.78	11.13
		<i>For Full Perforated, Add</i>	3.25	
33 41 16 13-0092	LF	21" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe.....	62.73	12.00
		<i>For Full Perforated, Add</i>	3.87	
33 41 16 13-0093 Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe (33 41 16 13)				
Note: Perforations are located in the bottom quarter points of the pipe.				
33 41 16 13-0094	LF	6" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	25.81	5.71
		<i>For Full Perforated, Add</i>	1.44	
33 41 16 13-0095	LF	8" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	32.88	6.92
		<i>For Full Perforated, Add</i>	1.91	
33 41 16 13-0096	LF	10" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	41.35	8.77
		<i>For Full Perforated, Add</i>	2.38	
33 41 16 13-0097	LF	12" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	45.38	10.37
		<i>For Full Perforated, Add</i>	2.46	
33 41 16 13-0098	LF	15" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	52.37	10.74
		<i>For Full Perforated, Add</i>	3.09	
33 41 16 13-0099	LF	18" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	59.49	11.13
		<i>For Full Perforated, Add</i>	3.72	
33 41 16 13-0100	LF	21" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe.....	68.21	12.00
		<i>For Full Perforated, Add</i>	4.42	
33 41 16 13-0101 Strip-Perforated, Corrugated Aluminum Pipe (33 41 16 13)				
Note: Perforations are located in the bottom quarter points of the pipe.				
33 41 16 13-0102	LF	6" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	26.45	5.71
		<i>For Full Perforated, Add</i>	1.50	
33 41 16 13-0103	LF	8" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	33.71	6.92
		<i>For Full Perforated, Add</i>	1.99	
33 41 16 13-0104	LF	10" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	42.40	8.77
		<i>For Full Perforated, Add</i>	2.49	
33 41 16 13-0105	LF	12" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	53.30	10.37
		<i>For Full Perforated, Add</i>	3.26	
33 41 16 13-0106	LF	15" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	62.22	10.74
		<i>For Full Perforated, Add</i>	4.08	
33 41 16 13-0107	LF	18" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	71.43	11.13
		<i>For Full Perforated, Add</i>	4.92	
33 41 16 13-0108	LF	21" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe.....	82.14	12.00
		<i>For Full Perforated, Add</i>	5.81	
33 41 16 13-0109 Prefabricated Composite Drains (33 41 16 13)				
33 41 16 13-0110 Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE) (33 41 16 13-0109)				
Note: Excludes excavation and backfill. See CSI section 31 23 16 13-0000 for excavation and backfill.				
33 41 16 13-0111	LF	12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	10.88	2.21
		<i>For External Typar Geotextile Wrap, Add</i>	2.03	
33 41 16 13-0112	EA	Coupler For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	49.73	
33 41 16 13-0113	EA	End Cap For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	49.73	
33 41 16 13-0114	EA	Side Outlet For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	96.73	
33 41 16 13-0115	EA	End Outlet For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	96.73	
33 41 16 13-0116	LF	18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	17.46	2.77
		<i>For External Typar Geotextile Wrap, Add</i>	3.04	
33 41 16 13-0117	EA	Coupler For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	73.86	
33 41 16 13-0118	EA	End Cap For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	73.86	
33 41 16 13-0119	EA	Side Outlet For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	127.23	
33 41 16 13-0120	EA	End Outlet For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	127.23	
33 41 19 Underslab Drainage (33 41)				
33 41 19 13 Underslab Drainage Piping (33 41 19)				
33 41 19 13-0001 Capillary Water Barrier Underslab Drainage (33 41 19 13)				
Note: Consists of a layer of fine granular material overlying a coarse layer.				
33 41 19 13-0002	CY	2" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage.....	118.23	
33 41 19 13-0003	CY	4" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage.....	115.69	
33 41 19 13-0004	CY	6" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage.....	114.67	
33 41 19 13-0005	CY	8" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage.....	113.15	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 42 Stormwater Conveyance (33 40)

Note: Piping includes hydrostatic testing, disinfecting and warning tape. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

33 42 11 Stormwater Gravity Piping (33 42)

33 42 11 00-0001 Reinforced Concrete Piping (33 42 11)

33 42 11 00-0002 Class 3 Reinforced Concrete Pipe Without Gaskets (33 42 11 00-0001)

33 42 11 00-0003	LF	12" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	52.29	15.97
		For >1,000, Deduct	-2.61	
		For Class 4, Add	2.80	
		For Class 5, Add	5.90	
33 42 11 00-0004	LF	15" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	63.13	17.77
		For >1,000, Deduct	-3.16	
		For Class 4, Add	3.59	
		For Class 5, Add	7.55	
33 42 11 00-0005	LF	18" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	71.37	22.16
		For >1,000, Deduct	-3.57	
		For Class 4, Add	3.77	
		For Class 5, Add	7.94	
33 42 11 00-0006	LF	21" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	91.53	27.95
		For >1,000, Deduct	-4.58	
		For Class 4, Add	4.90	
		For Class 5, Add	10.32	
33 42 11 00-0007	LF	24" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	106.87	33.94
		For >1,000, Deduct	-5.34	
		For Class 4, Add	5.55	
		For Class 5, Add	11.68	
33 42 11 00-0008	LF	27" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	135.14	43.02
		For >1,000, Deduct	-6.76	
		For Class 4, Add	7.00	
		For Class 5, Add	14.74	
33 42 11 00-0009	LF	30" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	143.92	44.41
		For >1,000, Deduct	-7.20	
		For Class 4, Add	7.57	
		For Class 5, Add	15.94	
33 42 11 00-0010	LF	36" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	179.47	50.47
		For >1,000, Deduct	-8.97	
		For Class 4, Add	10.27	
		For Class 5, Add	21.62	
33 42 11 00-0011	LF	42" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	234.96	55.52
		For >1,000, Deduct	-11.75	
		For Class 4, Add	14.86	
		For Class 5, Add	31.29	
33 42 11 00-0012	LF	48" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	282.35	61.83
		For >1,000, Deduct	-14.12	
		For Class 4, Add	18.43	
		For Class 5, Add	38.81	
33 42 11 00-0013	LF	54" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	352.88	70.66
		For >1,000, Deduct	-17.64	
		For Class 4, Add	23.93	
		For Class 5, Add	50.39	
33 42 11 00-0014	LF	60" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	426.95	81.97
		For >1,000, Deduct	-21.35	
		For Class 4, Add	29.44	
		For Class 5, Add	61.97	
33 42 11 00-0015	LF	66" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	666.75	90.85
		For >1,000, Deduct	-33.34	
		For Class 4, Add	51.07	
		For Class 5, Add	107.51	
33 42 11 00-0016	LF	72" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	779.47	98.92
		For >1,000, Deduct	-38.97	
		For Class 4, Add	60.62	
		For Class 5, Add	127.63	
33 42 11 00-0017	LF	78" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	939.19	111.03
		For >1,000, Deduct	-46.96	
		For Class 4, Add	74.12	
		For Class 5, Add	156.04	
33 42 11 00-0018	LF	84" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets	1,214.56	123.65
		For >1,000, Deduct	-60.73	
		For Class 4, Add	98.60	
		For Class 5, Add	207.58	

33 42 11 00-0019 HE-I Elliptical Reinforced Concrete Piping Without Gaskets (33 42 11 00-0001)

33 42 11 00-0020	LF	12" x 18" Elliptical Reinforced Concrete Pipe Without Gaskets (15" Diameter Equivalent Round Size)	81.93	25.09
		For >1,000, Deduct	-4.10	
		For Horizontal Elliptical - II (HE- II), Add	4.61	
		For Horizontal Elliptical - III (HE- III), Add	10.14	
		For Horizontal Elliptical - IV (HE- IV), Add	22.12	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0021	LF	14" x 23" Elliptical Reinforced Concrete Pipe Without Gaskets (18" Diameter Equivalent Round Size).....	128.02	29.47
		For >1,000, Deduct.....	-6.40	
		For Horizontal Elliptical - II (HE- II), Add.....	8.59	
		For Horizontal Elliptical - III (HE- III), Add.....	18.90	
		For Horizontal Elliptical - IV (HE- IV), Add.....	41.24	
33 42 11 00-0022	LF	19" x 30" Elliptical Reinforced Concrete Pipe Without Gaskets (24" Diameter Equivalent Round Size).....	176.89	45.14
		For >1,000, Deduct.....	-8.84	
		For Horizontal Elliptical - II (HE- II), Add.....	11.24	
		For Horizontal Elliptical - III (HE- III), Add.....	24.73	
		For Horizontal Elliptical - IV (HE- IV), Add.....	53.96	
33 42 11 00-0023	LF	22" x 34" Elliptical Reinforced Concrete Pipe Without Gaskets (27" Diameter Equivalent Round Size).....	207.38	57.21
		For >1,000, Deduct.....	-10.37	
		For Horizontal Elliptical - II (HE- II), Add.....	12.57	
		For Horizontal Elliptical - III (HE- III), Add.....	27.65	
		For Horizontal Elliptical - IV (HE- IV), Add.....	60.32	
33 42 11 00-0024	LF	24" x 38" Elliptical Reinforced Concrete Pipe Without Gaskets (30" Diameter Equivalent Round Size).....	220.35	59.77
		For >1,000, Deduct.....	-11.02	
		For Horizontal Elliptical - II (HE- II), Add.....	13.50	
		For Horizontal Elliptical - III (HE- III), Add.....	29.69	
		For Horizontal Elliptical - IV (HE- IV), Add.....	64.79	
33 42 11 00-0025	LF	27" x 42" Elliptical Reinforced Concrete Pipe Without Gaskets (33" Diameter Equivalent Round Size).....	254.28	63.11
		For >1,000, Deduct.....	-12.71	
		For Horizontal Elliptical - II (HE- II), Add.....	16.41	
		For Horizontal Elliptical - III (HE- III), Add.....	36.11	
		For Horizontal Elliptical - IV (HE- IV), Add.....	78.78	
33 42 11 00-0026	LF	29" x 45" Elliptical Reinforced Concrete Pipe Without Gaskets (36" Diameter Equivalent Round Size).....	288.20	66.44
		For >1,000, Deduct.....	-14.41	
		For Horizontal Elliptical - II (HE- II), Add.....	19.33	
		For Horizontal Elliptical - III (HE- III), Add.....	42.52	
		For Horizontal Elliptical - IV (HE- IV), Add.....	92.78	
33 42 11 00-0027	LF	34" x 53" Elliptical Reinforced Concrete Pipe Without Gaskets (42" Diameter Equivalent Round Size).....	353.10	73.11
		For >1,000, Deduct.....	-17.66	
		For Horizontal Elliptical - II (HE- II), Add.....	24.87	
		For Horizontal Elliptical - III (HE- III), Add.....	54.71	
		For Horizontal Elliptical - IV (HE- IV), Add.....	119.36	
33 42 11 00-0028	LF	38" x 60" Elliptical Reinforced Concrete Pipe Without Gaskets (48" Diameter Equivalent Round Size).....	426.84	82.23
		For >1,000, Deduct.....	-21.34	
		For Horizontal Elliptical - II (HE- II), Add.....	30.94	
		For Horizontal Elliptical - III (HE- III), Add.....	68.06	
		For Horizontal Elliptical - IV (HE- IV), Add.....	148.49	
33 42 11 00-0029	LF	43" x 68" Elliptical Reinforced Concrete Pipe Without Gaskets (54" Diameter Equivalent Round Size).....	485.80	93.98
		For >1,000, Deduct.....	-24.29	
		For Horizontal Elliptical - II (HE- II), Add.....	35.16	
		For Horizontal Elliptical - III (HE- III), Add.....	77.34	
		For Horizontal Elliptical - IV (HE- IV), Add.....	168.74	
33 42 11 00-0030	LF	48" x 76" Elliptical Reinforced Concrete Pipe Without Gaskets (60" Diameter Equivalent Round Size).....	603.37	109.01
		For >1,000, Deduct.....	-30.17	
		For Horizontal Elliptical - II (HE- II), Add.....	44.76	
		For Horizontal Elliptical - III (HE- III), Add.....	98.48	
		For Horizontal Elliptical - IV (HE- IV), Add.....	214.87	
33 42 11 00-0031	LF	53" x 83" Elliptical Reinforced Concrete Pipe without Gaskets (66" Diameter Equivalent Round Size).....	689.69	120.12
33 42 11 00-0032	LF	58" x 91" Elliptical Reinforced Concrete Pipe without Gaskets (72" Diameter Equivalent Round Size).....	839.74	131.23
33 42 11 00-0033	LF	63" x 98" Elliptical Reinforced Concrete Pipe without Gaskets (78" Diameter Equivalent Round Size).....	1,005.29	148.38
33 42 11 00-0034	LF	68" x 106" Elliptical Reinforced Concrete Pipe without Gaskets (84" Diameter Equivalent Round Size).....	1,087.28	164.54
33 42 11 00-0035	LF	72" x 113" Elliptical Reinforced Concrete Pipe without Gaskets (90" Diameter Equivalent Round Size).....	1,401.53	172.61
33 42 11 00-0036	LF	77" x 121" Elliptical Reinforced Concrete Pipe without Gaskets (96" Diameter Equivalent Round Size).....	1,628.86	180.69
33 42 11 00-0037 Concrete Reducing Wye Without Gaskets (33 42 11 00-0001)				
33 42 11 00-0038	EA	12" Concrete Reducing Wye Without Gaskets.....	668.90	60.84
33 42 11 00-0039	EA	15" Concrete Reducing Wye Without Gaskets.....	801.83	74.15
33 42 11 00-0040	EA	18" Concrete Reducing Wye Without Gaskets.....	993.27	81.75
33 42 11 00-0041	EA	21" Concrete Reducing Wye Without Gaskets.....	1,138.14	100.76
33 42 11 00-0042	EA	24" Concrete Reducing Wye Without Gaskets.....	1,284.44	121.67
33 42 11 00-0043 Concrete Pipe Joint Gaskets (33 42 11 00-0001)				
33 42 11 00-0044	EA	12" Diameter Concrete Pipe Joint Gasket.....	6.54	
33 42 11 00-0045	EA	15" Diameter Concrete Pipe Joint Gasket.....	7.73	
33 42 11 00-0046	EA	18" Diameter Concrete Pipe Joint Gasket.....	8.96	
33 42 11 00-0047	EA	21" Diameter Concrete Pipe Joint Gasket.....	10.83	
33 42 11 00-0048	EA	24" Diameter Concrete Pipe Joint Gasket.....	12.69	
33 42 11 00-0049	EA	27" Diameter Concrete Pipe Joint Gasket.....	14.14	
33 42 11 00-0050	EA	30" Diameter Concrete Pipe Joint Gasket.....	15.54	
33 42 11 00-0051	EA	36" Diameter Concrete Pipe Joint Gasket.....	18.98	
33 42 11 00-0052	EA	42" Diameter Concrete Pipe Joint Gasket.....	22.00	
33 42 11 00-0053	EA	48" Diameter Concrete Pipe Joint Gasket.....	25.38	
33 42 11 00-0054	EA	54" Diameter Concrete Pipe Joint Gasket.....	31.11	
33 42 11 00-0055	EA	60" Diameter Concrete Pipe Joint Gasket.....	46.05	
33 42 11 00-0056	EA	66" Diameter Concrete Pipe Joint Gasket.....	47.86	
33 42 11 00-0057	EA	72" Diameter Concrete Pipe Joint Gasket.....	49.63	
33 42 11 00-0058	EA	78" Diameter Concrete Pipe Joint Gasket.....	57.16	
33 42 11 00-0059	EA	84" Diameter Concrete Pipe Joint Gasket.....	68.52	



	Utilities	33	
	Stormwater Utilities	33 40	CS
	Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0060 Precast Concrete Cut Off Wall (33 42 11 00-0001)		
33 42 11 00-0061 EA 12" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	290.16	177.66
33 42 11 00-0062 EA 15" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	357.53	220.06
33 42 11 00-0063 EA 18" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	441.05	278.60
33 42 11 00-0064 EA 21" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	520.53	333.11
33 42 11 00-0065 EA 24" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	597.89	385.49
33 42 11 00-0066 EA 27" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	729.97	492.60
33 42 11 00-0067 EA 30" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	940.90	678.33
33 42 11 00-0068 EA 36" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,168.73	855.98
33 42 11 00-0069 EA 42" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,436.29	1,073.82
33 42 11 00-0070 EA 48" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,604.04	1,210.29
33 42 11 00-0071 EA 54" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,788.66	1,356.66
33 42 11 00-0072 EA 60" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	1,975.05	1,507.06
33 42 11 00-0073 EA 66" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	2,052.84	1,564.60
33 42 11 00-0074 EA 72" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	2,121.31	1,615.07
33 42 11 00-0075 EA 78" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	2,189.78	1,665.54
33 42 11 00-0076 EA 84" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall	2,260.50	1,716.01
33 42 11 00-0077 Strap Assembly (33 42 11 00-0001)		
Note: Includes drilling holes in concrete pipe, setting threaded rod, bolts, and mounting the 12' strap.		
33 42 11 00-0078 EA Up To 24" Diameter Pipe, 12' Strap Assembly	231.76	
33 42 11 00-0079 EA >24" Diameter Pipe, 12' Strap Assembly	327.46	
33 42 11 00-0080 Prestressed Concrete Cylinder Piping (33 42 11)		
33 42 11 00-0081 150 PSI Prestressed Concrete Cylinder Pipe And Fittings (33 42 11 00-0080)		
33 42 11 00-0082 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets (33 42 11 00-0081)		
Note: Lined-cylinder pipe (AWWA C301) up to 48". Embedded-cylinder pipe (AWWA C301) >48".		
33 42 11 00-0083 LF 12" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	149.83	15.97
For >1,000, Deduct	-7.49	
For 100 PSI, Deduct	-31.76	
33 42 11 00-0084 LF 15" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	159.75	17.77
For >1,000, Deduct	-7.99	
For 100 PSI, Deduct	-33.59	
33 42 11 00-0085 LF 18" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	173.38	22.16
For >1,000, Deduct	-8.67	
For 100 PSI, Deduct	-35.43	
33 42 11 00-0086 LF 21" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	189.00	27.95
For >1,000, Deduct	-9.45	
For 100 PSI, Deduct	-37.27	
33 42 11 00-0087 LF 24" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	204.91	33.94
For >1,000, Deduct	-10.25	
For 100 PSI, Deduct	-39.11	
33 42 11 00-0088 LF 30" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	239.35	44.41
For >1,000, Deduct	-11.97	
For 100 PSI, Deduct	-43.79	
33 42 11 00-0089 LF 36" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	265.22	50.47
For >1,000, Deduct	-13.26	
For 100 PSI, Deduct	-48.47	
33 42 11 00-0090 LF 42" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	308.49	55.52
For >1,000, Deduct	-15.42	
For 100 PSI, Deduct	-57.49	
33 42 11 00-0091 LF 48" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	354.38	61.83
For >1,000, Deduct	-17.72	
For 100 PSI, Deduct	-66.52	
33 42 11 00-0092 LF 54" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	471.05	80.80
For >1,000, Deduct	-23.55	
For 100 PSI, Deduct	-88.91	
33 42 11 00-0093 LF 60" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	568.40	93.72
For >1,000, Deduct	-28.42	
For 100 PSI, Deduct	-108.63	
33 42 11 00-0094 LF 66" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	639.08	103.87
For >1,000, Deduct	-31.95	
For 100 PSI, Deduct	-122.84	
33 42 11 00-0095 LF 72" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	713.09	113.11
For >1,000, Deduct	-35.65	
For 100 PSI, Deduct	-137.88	
33 42 11 00-0096 LF 78" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	810.17	126.96
For >1,000, Deduct	-40.51	
For 100 PSI, Deduct	-157.10	
33 42 11 00-0097 LF 84" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	907.25	141.39
For >1,000, Deduct	-45.36	
For 100 PSI, Deduct	-176.32	
33 42 11 00-0098 LF 90" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,122.36	165.04
For >1,000, Deduct	-56.12	
For 100 PSI, Deduct	-221.44	
33 42 11 00-0099 LF 96" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,322.15	188.48
For >1,000, Deduct	-66.11	
For 100 PSI, Deduct	-263.22	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0100 LF 102" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... For >1,000, Deduct For 100 PSI, Deduct	1,544.21 -77.21 -313.36	203.54
33 42 11 00-0101 LF 108" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... For >1,000, Deduct For 100 PSI, Deduct	1,746.06 -87.30 -359.32	216.15
33 42 11 00-0102 LF 114" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... For >1,000, Deduct For 100 PSI, Deduct	2,115.02 -105.75 -447.06	228.75
33 42 11 00-0103 LF 120" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... For >1,000, Deduct For 100 PSI, Deduct	2,465.76 -123.29 -530.62	240.29
33 42 11 00-0104 LF 126" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... For >1,000, Deduct For 100 PSI, Deduct	2,689.47 -134.47 -582.43	251.83
33 42 11 00-0105 LF 132" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... For >1,000, Deduct For 100 PSI, Deduct	2,916.54 -145.83 -635.08	263.37
33 42 11 00-0106 LF 138" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... For >1,000, Deduct For 100 PSI, Deduct	3,141.94 -157.10 -687.30	274.91
33 42 11 00-0107 LF 144" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets..... For >1,000, Deduct For 100 PSI, Deduct	3,367.32 -168.37 -739.53	286.45
33 42 11 00-0108 150 PSI Prestressed Concrete Cylinder 90 Degree Elbows With Gaskets⁽³³⁾ 42 11 00-0081)		
33 42 11 00-0109 EA 12" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	469.90	149.72
33 42 11 00-0110 EA 15" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	648.36	213.88
33 42 11 00-0111 EA 18" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	831.07	285.17
33 42 11 00-0112 EA 21" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,013.76	356.46
33 42 11 00-0113 EA 24" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,227.81	442.97
33 42 11 00-0114 EA 30" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,576.33	594.11
33 42 11 00-0115 EA 36" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,947.70	706.59
33 42 11 00-0116 EA 42" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,267.75	824.70
33 42 11 00-0117 EA 48" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,549.41	941.78
33 42 11 00-0118 EA 54" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,131.59	1,175.97
33 42 11 00-0119 EA 60" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,125.68	1,615.83
33 42 11 00-0120 EA 66" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,594.83	1,788.96
33 42 11 00-0121 EA 72" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,063.97	1,962.08
33 42 11 00-0122 EA 78" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	6,152.35	2,250.62
33 42 11 00-0123 EA 84" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	7,234.33	2,539.16
33 42 11 00-0124 EA 90" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	8,587.65	2,885.41
33 42 11 00-0125 EA 96" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	9,934.59	3,231.66
33 42 11 00-0126 EA 102" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	13,297.65	4,092.13
33 42 11 00-0127 EA 108" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	16,616.08	4,910.56
33 42 11 00-0128 EA 114" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	21,552.07	6,547.40
33 42 11 00-0129 EA 120" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	26,410.58	8,184.25
33 42 11 00-0130 EA 126" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	29,908.25	8,827.30
33 42 11 00-0131 EA 132" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	33,410.26	9,470.35
33 42 11 00-0132 EA 138" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	44,167.14	10,113.40
33 42 11 00-0133 EA 144" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	40,487.73	10,756.45
33 42 11 00-0134 150 PSI Prestressed Concrete Cylinder 45 Degree Elbows With Gaskets⁽³³⁾ 42 11 00-0081)		
33 42 11 00-0135 EA 12" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	435.80	149.72
33 42 11 00-0136 EA 15" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	604.24	213.88
33 42 11 00-0137 EA 18" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	778.92	285.17
33 42 11 00-0138 EA 21" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	953.60	356.46
33 42 11 00-0139 EA 24" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,159.62	442.97
33 42 11 00-0140 EA 30" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,482.74	554.19
33 42 11 00-0141 EA 36" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,840.74	706.59
33 42 11 00-0142 EA 42" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,144.08	824.70
33 42 11 00-0143 EA 48" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,416.38	941.78
33 42 11 00-0144 EA 54" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,945.37	1,175.97
33 42 11 00-0145 EA 60" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,945.62	1,615.83
33 42 11 00-0146 EA 66" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,401.72	1,788.96
33 42 11 00-0147 EA 72" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,857.81	1,962.08
33 42 11 00-0148 EA 78" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,671.13	2,250.62
33 42 11 00-0149 EA 84" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	6,478.05	2,539.16
33 42 11 00-0150 EA 90" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	7,633.24	2,885.41
33 42 11 00-0151 EA 96" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	8,782.03	3,231.66
33 42 11 00-0152 EA 102" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	11,494.76	4,039.57
33 42 11 00-0153 EA 108" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	14,373.05	4,910.56
33 42 11 00-0154 EA 114" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	18,763.31	6,547.40
33 42 11 00-0155 EA 120" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	23,076.10	8,184.25
33 42 11 00-0156 EA 126" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	25,839.59	8,827.30
33 42 11 00-0157 EA 132" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	28,607.43	10,756.45
33 42 11 00-0158 EA 138" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	31,387.13	10,113.40
33 42 11 00-0159 EA 144" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	34,482.93	10,756.45



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0160 400 PSI Prestressed Concrete Cylinder Pipe With Regular Joints (33 42 11 00-0080)		
33 42 11 00-0161 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints (33 42 11 00-0160)		
Note: AWWA C301		
33 42 11 00-0162 LF 30" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints	283.31	44.41
For >1,000, Deduct	-14.17	
33 42 11 00-0163 LF 36" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints	346.41	50.47
For >1,000, Deduct	-17.32	
33 42 11 00-0164 LF 42" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints	404.87	55.52
For >1,000, Deduct	-20.24	
33 42 11 00-0165 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints (33 42 11 00-0160)		
Note: AWWA C301		
33 42 11 00-0166 LF 48" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints	547.98	61.78
For >1,000, Deduct	-27.40	
33 42 11 00-0167 LF 54" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints	656.87	80.80
For >1,000, Deduct	-32.84	
33 42 11 00-0168 LF 60" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints	757.14	93.72
For >1,000, Deduct	-37.86	
33 42 11 00-0169 LF 66" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints	852.79	103.87
For >1,000, Deduct	-42.64	
33 42 11 00-0170 LF 72" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints	1,035.19	113.11
For >1,000, Deduct	-51.76	
33 42 11 00-0171 Welded Joints For Prestressed Concrete Cylinder Pipe (33 42 11 00-0160)		
Note: All pipe joints to be exposed and dewatered. Internal joint welding also requires joints to be ventilated and air quality checked.		
33 42 11 00-0172 EA 30" Welded Joint For Prestressed Concrete Cylinder Pipe	2,335.94	
33 42 11 00-0173 EA 36" Welded Joint For Prestressed Concrete Cylinder Pipe	2,508.98	
33 42 11 00-0174 EA 42" Welded Joint For Prestressed Concrete Cylinder Pipe	2,595.49	
33 42 11 00-0175 EA 48" Welded Joint For Prestressed Concrete Cylinder Pipe	2,941.56	
33 42 11 00-0176 EA 54" Welded Joint For Prestressed Concrete Cylinder Pipe	3,028.07	
33 42 11 00-0177 EA 60" Welded Joint For Prestressed Concrete Cylinder Pipe	3,201.11	
33 42 11 00-0178 EA 66" Welded Joint For Prestressed Concrete Cylinder Pipe	3,287.62	
33 42 11 00-0179 EA 72" Welded Joint For Prestressed Concrete Cylinder Pipe	3,374.14	
33 42 11 00-0180 EA 30" Internal Welded Joint For Prestressed Concrete Cylinder Pipe	4,325.82	
33 42 11 00-0181 EA 36" Internal Welded Joint For Prestressed Concrete Cylinder Pipe	4,325.82	
33 42 11 00-0182 EA 42" Internal Welded Joint For Prestressed Concrete Cylinder Pipe	4,931.43	
33 42 11 00-0183 EA 48" Internal Welded Joint For Prestressed Concrete Cylinder Pipe	4,931.43	
33 42 11 00-0184 EA 54" Internal Welded Joint For Prestressed Concrete Cylinder Pipe	5,277.50	
33 42 11 00-0185 EA 60" Internal Welded Joint For Prestressed Concrete Cylinder Pipe	5,277.50	
33 42 11 00-0186 EA 66" Internal Welded Joint For Prestressed Concrete Cylinder Pipe	5,710.08	
33 42 11 00-0187 EA 72" Internal Welded Joint For Prestressed Concrete Cylinder Pipe	5,710.08	
33 42 11 00-0188 Quick Test Joints (33 42 11 00-0160)		
33 42 11 00-0189 EA 30" Quick Test Joint	591.87	
33 42 11 00-0190 EA 36" Quick Test Joint	596.91	
33 42 11 00-0191 EA 42" Quick Test Joint	601.96	
33 42 11 00-0192 EA 48" Quick Test Joint	614.05	
33 42 11 00-0193 EA 54" Quick Test Joint	642.93	
33 42 11 00-0194 EA 60" Quick Test Joint	666.21	
33 42 11 00-0195 EA 66" Quick Test Joint	701.19	
33 42 11 00-0196 EA 72" Quick Test Joint	736.18	
33 42 11 00-0197 Harnessed Joints (33 42 11 00-0160)		
33 42 11 00-0198 Harness Clamp Restrained Joints (33 42 11 00-0197)		
33 42 11 00-0199 EA 30" Harness Clamp Restrained Joint	3,885.32	
33 42 11 00-0200 EA 36" Harness Clamp Restrained Joint	4,036.69	
33 42 11 00-0201 EA 42" Harness Clamp Restrained Joint	4,188.07	
33 42 11 00-0202 EA 48" Harness Clamp Restrained Joint	4,339.44	
33 42 11 00-0203 EA 54" Harness Clamp Restrained Joint	4,505.29	
33 42 11 00-0204 EA 60" Harness Clamp Restrained Joint	4,736.33	
33 42 11 00-0205 EA 66" Harness Clamp Restrained Joint	4,894.20	
33 42 11 00-0206 EA 72" Harness Clamp Restrained Joint	5,242.30	
33 42 11 00-0207 Snap Ring Restrained Joints (33 42 11 00-0197)		
33 42 11 00-0208 EA 30" Snap Ring Restrained Joint	666.08	
33 42 11 00-0209 EA 36" Snap Ring Restrained Joint	758.91	
33 42 11 00-0210 EA 42" Snap Ring Restrained Joint	1,012.72	
33 42 11 00-0211 EA 48" Snap Ring Restrained Joint	1,149.46	
33 42 11 00-0212 EA 54" Snap Ring Restrained Joint	1,300.68	
33 42 11 00-0213 EA 60" Snap Ring Restrained Joint	1,473.19	
33 42 11 00-0214 EA 66" Snap Ring Restrained Joint	1,631.06	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0215 EA 72" Snap Ring Restrained Joint.....	1,818.19	
33 42 11 00-0216 Pipe Repairs (33 42 11 00-0160) Note: For repair of damaged or defective lined or embedded cylinder concrete pipe. Includes 2 concrete adapters, MJD sleeve, 20' pipe.		
33 42 11 00-0217 Lined Cylinder Pipe Repair (33 42 11 00-0216)		
33 42 11 00-0218 EA 30" Lined Cylinder Pipe Repair.....	7,131.48	
33 42 11 00-0219 EA 36" Lined Cylinder Pipe Repair.....	8,852.50	
33 42 11 00-0220 EA 42" Lined Cylinder Pipe Repair.....	10,732.08	
33 42 11 00-0221 Embedded Cylinder Pipe Repair (33 42 11 00-0216) Note: Field welded concrete enclosure assembly with concrete pipe.		
33 42 11 00-0222 EA 48" Embedded Cylinder Pipe Repair.....	16,237.24	
33 42 11 00-0223 EA 54" Embedded Cylinder Pipe Repair.....	18,892.03	
33 42 11 00-0224 EA 60" Embedded Cylinder Pipe Repair.....	21,563.56	
33 42 11 00-0225 EA 66" Embedded Cylinder Pipe Repair.....	24,366.82	
33 42 11 00-0226 EA 72" Embedded Cylinder Pipe Repair.....	29,423.92	
33 42 11 00-0227 High Density Polyethylene (HDPE) Drainage Piping (33 42 11)		
33 42 11 00-0228 Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0227) Note: Excludes couplings and gaskets.		
33 42 11 00-0229 Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0228)		
33 42 11 00-0230 LF 4" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	14.80	6.66
For <100, Add	2.66	
For >1,000, Deduct	-1.41	
33 42 11 00-0231 LF 6" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	19.25	7.75
For <100, Add	3.10	
For >1,000, Deduct	-1.74	
33 42 11 00-0232 LF 8" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	23.64	9.01
For <100, Add	3.60	
For >1,000, Deduct	-2.08	
33 42 11 00-0233 LF 10" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	26.77	9.32
For <100, Add	3.73	
For >1,000, Deduct	-2.27	
33 42 11 00-0234 LF 12" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	28.13	9.65
For <100, Add	3.86	
For >1,000, Deduct	-2.37	
33 42 11 00-0235 LF 15" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	31.83	9.99
For <100, Add	4.00	
For >1,000, Deduct	-2.59	
33 42 11 00-0236 LF 18" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	38.38	10.35
For <100, Add	4.14	
For >1,000, Deduct	-2.95	
33 42 11 00-0237 LF 24" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	52.40	12.13
For <100, Add	4.85	
For >1,000, Deduct	-3.83	
33 42 11 00-0238 LF 30" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	74.23	16.33
For <100, Add	6.53	
For >1,000, Deduct	-5.34	
33 42 11 00-0239 LF 36" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	97.47	20.63
For <100, Add	8.26	
For >1,000, Deduct	-6.94	
33 42 11 00-0240 Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0228)		
33 42 11 00-0241 LF 12" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	27.98	9.65
For <100, Add	3.86	
For >1,000, Deduct	-2.36	
33 42 11 00-0242 LF 15" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	32.45	9.99
For <100, Add	4.00	
For >1,000, Deduct	-2.62	
33 42 11 00-0243 LF 18" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	39.31	10.35
For <100, Add	4.14	
For >1,000, Deduct	-3.00	
33 42 11 00-0244 LF 24" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	53.88	12.13
For <100, Add	4.85	
For >1,000, Deduct	-3.91	
33 42 11 00-0245 LF 30" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	78.28	16.33
For <100, Add	6.53	
For >1,000, Deduct	-5.55	
33 42 11 00-0246 LF 36" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	100.49	20.63
For <100, Add	8.26	
For >1,000, Deduct	-7.09	



		Utilities	33	
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0247	LF	42" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	130.49	22.51
		For <100, Add	9.00	
		For >1,000, Deduct	-8.78	
33 42 11 00-0248	LF	48" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	142.40	25.40
		For <100, Add	10.16	
		For >1,000, Deduct	-9.66	
33 42 11 00-0249		Perforated, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0227)		
		Note: Excludes couplings and gaskets.		
33 42 11 00-0250		Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0249)		
33 42 11 00-0251	LF	4" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	15.58	6.66
		For <100, Add	2.66	
		For >1,000, Deduct	-1.45	
33 42 11 00-0252	LF	6" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	19.27	7.75
		For <100, Add	3.10	
		For >1,000, Deduct	-1.74	
33 42 11 00-0253	LF	8" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	23.64	9.01
		For <100, Add	3.60	
		For >1,000, Deduct	-2.08	
33 42 11 00-0254	LF	10" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	26.80	9.32
		For <100, Add	3.73	
		For >1,000, Deduct	-2.27	
33 42 11 00-0255	LF	12" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	28.13	9.65
		For <100, Add	3.86	
		For >1,000, Deduct	-2.37	
33 42 11 00-0256	LF	15" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	31.85	9.99
		For <100, Add	4.00	
		For >1,000, Deduct	-2.59	
33 42 11 00-0257	LF	18" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	38.40	10.35
		For <100, Add	4.14	
		For >1,000, Deduct	-2.96	
33 42 11 00-0258	LF	24" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	52.40	12.13
		For <100, Add	4.85	
		For >1,000, Deduct	-3.83	
33 42 11 00-0259	LF	30" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	74.49	16.33
		For <100, Add	6.53	
		For >1,000, Deduct	-5.36	
33 42 11 00-0260	LF	36" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	97.47	20.63
		For <100, Add	8.26	
		For >1,000, Deduct	-6.94	
33 42 11 00-0261		Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0249)		
33 42 11 00-0262	LF	12" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	28.00	9.65
		For <100, Add	3.86	
		For >1,000, Deduct	-2.37	
33 42 11 00-0263	LF	15" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	32.48	9.99
		For <100, Add	4.00	
		For >1,000, Deduct	-2.62	
33 42 11 00-0264	LF	18" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	39.34	10.35
		For <100, Add	4.14	
		For >1,000, Deduct	-3.00	
33 42 11 00-0265	LF	24" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	53.88	12.13
		For <100, Add	4.85	
		For >1,000, Deduct	-3.91	
33 42 11 00-0266	LF	30" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	78.28	16.33
		For <100, Add	6.53	
		For >1,000, Deduct	-5.55	
33 42 11 00-0267	LF	36" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	100.49	20.63
		For <100, Add	8.26	
		For >1,000, Deduct	-7.09	
33 42 11 00-0268	LF	42" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	130.49	22.51
		For <100, Add	9.00	
		For >1,000, Deduct	-8.78	
33 42 11 00-0269	LF	48" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe	142.40	25.40
		For <100, Add	10.16	
		For >1,000, Deduct	-9.66	
33 42 11 00-0270		Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe Fittings (33 42 11 00-0227)		
		Note: Excludes couplings and gaskets.		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 42 11 00-0271		Tees, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) (33 42 11 00-0270)		
33 42 11 00-0272	EA	4" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	72.08	25.45
33 42 11 00-0273	EA	6" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	90.97	29.69
33 42 11 00-0274	EA	8" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	149.01	36.06
33 42 11 00-0275	EA	10" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	229.16	44.54
33 42 11 00-0276	EA	12" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	364.67	53.03
33 42 11 00-0277	EA	15" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	515.69	69.29
33 42 11 00-0278	EA	18" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	742.75	93.32
33 42 11 00-0279	EA	24" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	954.36	106.52
33 42 11 00-0280	EA	30" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	1,678.69	123.02
33 42 11 00-0281	EA	36" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	2,158.82	142.11
33 42 11 00-0282	EA	42" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	3,605.88	169.68
33 42 11 00-0283	EA	48" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	4,528.04	201.50
33 42 11 00-0284		Wyes, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) (33 42 11 00-0270)		
33 42 11 00-0285	EA	4" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	107.75	25.45
33 42 11 00-0286	EA	6" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	130.11	29.69
33 42 11 00-0287	EA	8" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	173.72	36.06
33 42 11 00-0288	EA	10" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	256.40	44.54
33 42 11 00-0289	EA	12" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	452.32	53.03
33 42 11 00-0290	EA	15" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	488.81	69.29
33 42 11 00-0291	EA	18" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	690.45	93.32
33 42 11 00-0292		22-1/2 Degree Bends, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) (33 42 11 00-0270)		
33 42 11 00-0293	EA	4" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	43.57	16.97
33 42 11 00-0294	EA	6" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	53.97	19.80
33 42 11 00-0295	EA	8" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	79.56	24.04
33 42 11 00-0296	EA	10" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	100.22	29.69
33 42 11 00-0297	EA	12" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	146.72	35.35
33 42 11 00-0298	EA	15" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	233.60	45.25
33 42 11 00-0299	EA	18" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	309.22	62.22
33 42 11 00-0300	EA	24" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	594.88	70.70
33 42 11 00-0301	EA	30" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	829.33	82.01
33 42 11 00-0302	EA	36" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	972.09	94.74
33 42 11 00-0303	EA	42" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	1,243.65	113.12
33 42 11 00-0304	EA	48" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	1,684.42	134.32
33 42 11 00-0305		45 Degree Bends, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) (33 42 11 00-0270)		
33 42 11 00-0306	EA	4" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	47.48	16.97
33 42 11 00-0307	EA	6" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	62.10	19.80
33 42 11 00-0308	EA	8" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	83.71	24.04
33 42 11 00-0309	EA	10" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	133.99	29.69
33 42 11 00-0310	EA	12" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	146.72	35.35
33 42 11 00-0311	EA	15" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	232.93	45.25
33 42 11 00-0312	EA	18" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	363.67	62.22
33 42 11 00-0313	EA	24" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	636.95	70.70
33 42 11 00-0314	EA	30" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	831.33	82.01
33 42 11 00-0315	EA	36" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	1,062.76	94.74
33 42 11 00-0316	EA	42" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	1,593.61	113.12
33 42 11 00-0317	EA	48" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	1,998.08	134.32
33 42 11 00-0318		Couplings And End Caps, Corrugated High Density Polyethylene (HDPE) Pipe Fittings (33 42 11 00-0227)		
Note: For single and double wall high density polyethylene (HDPE) piping.				
33 42 11 00-0319		Couplings, Corrugated High Density Polyethylene (HDPE) Pipe (33 42 11 00-0318)		
33 42 11 00-0320	EA	4" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	2.33	
33 42 11 00-0321	EA	6" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	4.18	
33 42 11 00-0322	EA	8" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	6.43	
33 42 11 00-0323	EA	10" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	7.90	
33 42 11 00-0324	EA	12" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	8.50	
33 42 11 00-0325	EA	15" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	12.11	
33 42 11 00-0326	EA	18" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	17.91	
33 42 11 00-0327	EA	24" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	28.51	
33 42 11 00-0328	EA	30" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	43.77	
33 42 11 00-0329	EA	36" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	57.28	
33 42 11 00-0330	EA	42" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	90.05	
33 42 11 00-0331	EA	48" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe	121.79	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 42 11 00-0332 Self Adhering Gaskets, Corrugated High Density Polyethylene (HDPE) Pipe (33 42 11 00-0318)

33 42 11 00-0333	EA	4" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	123.31	
33 42 11 00-0334	EA	6" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	129.12	
33 42 11 00-0335	EA	8" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	135.20	
33 42 11 00-0336	EA	10" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	141.55	
33 42 11 00-0337	EA	12" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	167.89	
33 42 11 00-0338	EA	15" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	173.34	
33 42 11 00-0339	EA	18" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	180.79	
33 42 11 00-0340	EA	24" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	205.93	
33 42 11 00-0341	EA	30" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	330.12	
33 42 11 00-0342	EA	36" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	361.59	
33 42 11 00-0343	EA	42" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	393.98	
33 42 11 00-0344	EA	48" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	478.50	

33 42 11 00-0345 End Caps, Corrugated High Density Polyethylene (HDPE) Pipe (33 42 11 00-0318)

33 42 11 00-0346	EA	6" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	32.49	
33 42 11 00-0347	EA	8" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	38.13	
33 42 11 00-0348	EA	10" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	61.64	
33 42 11 00-0349	EA	12" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	104.66	
33 42 11 00-0350	EA	15" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	121.76	
33 42 11 00-0351	EA	18" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	164.50	
33 42 11 00-0352	EA	24" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe	170.52	

33 42 11 00-0353 Vitrified Clay Piping (33 42 11)

33 42 11 00-0354 Extra Strength Vitrified Clay Piping (33 42 11 00-0353)

33 42 11 00-0355 Plain Joint, Extra Strength, Vitrified Clay Piping (33 42 11 00-0354)
Note: ASTM C700.

33 42 11 00-0356	LF	4" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	21.11	
		For 3' Lengths, Add	1.68	
		For 2' Lengths, Add	2.24	
		For Standard Strength, Deduct	-0.56	
		For >1,000, Deduct	-1.06	
33 42 11 00-0357	LF	6" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	35.13	
		For 3' Lengths, Add	2.60	
		For 2' Lengths, Add	3.47	
		For Standard Strength, Deduct	-0.87	
		For >1,000, Deduct	-1.76	
33 42 11 00-0358	LF	8" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	41.79	
		For 3' Lengths, Add	3.72	
		For 2' Lengths, Add	4.96	
		For Standard Strength, Deduct	-1.24	
		For >1,000, Deduct	-2.09	
33 42 11 00-0359	LF	10" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	50.06	
		For 3' Lengths, Add	5.70	
		For 2' Lengths, Add	7.60	
		For Standard Strength, Deduct	-1.90	
		For >1,000, Deduct	-2.50	
33 42 11 00-0360	LF	12" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	60.70	
		For 3' Lengths, Add	8.04	
		For 2' Lengths, Add	10.72	
		For Standard Strength, Deduct	-2.68	
		For >1,000, Deduct	-3.04	
33 42 11 00-0361	LF	15" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	87.98	
		For 3' Lengths, Add	15.08	
		For 2' Lengths, Add	20.11	
		For Standard Strength, Deduct	-5.03	
		For >1,000, Deduct	-4.40	
33 42 11 00-0362	LF	18" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	119.09	
		For 3' Lengths, Add	21.62	
		For 2' Lengths, Add	28.82	
		For Standard Strength, Deduct	-7.21	
		For >1,000, Deduct	-5.95	
33 42 11 00-0363	LF	21" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	174.75	
		For 3' Lengths, Add	34.63	
		For 2' Lengths, Add	46.18	
		For Standard Strength, Deduct	-11.54	
		For >1,000, Deduct	-8.74	
33 42 11 00-0364	LF	24" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	222.82	
		For 3' Lengths, Add	45.24	
		For 2' Lengths, Add	60.32	
		For Standard Strength, Deduct	-15.08	
		For >1,000, Deduct	-11.14	
33 42 11 00-0365	LF	30" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	275.50	
		For 3' Lengths, Add	56.42	
		For 2' Lengths, Add	75.22	
		For Standard Strength, Deduct	-18.81	
		For >1,000, Deduct	-13.78	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0366 LF 36" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	333.34	
For 3' Lengths, Add	68.15	
For 2' Lengths, Add	90.86	
For Standard Strength, Deduct	-22.72	
For >1,000, Deduct	-16.67	
33 42 11 00-0367 Compression Joint, Extra Strength, Vitrified Clay Piping (33 42 11 00-0354)		
Note: ASTM C425.		
33 42 11 00-0368 LF 4" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	30.10	
For 3' Lengths, Add	1.98	
For 2' Lengths, Add	2.64	
For Standard Strength, Deduct	-0.66	
For >1,000, Deduct	-1.51	
33 42 11 00-0369 LF 6" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	37.21	
For 3' Lengths, Add	3.23	
For 2' Lengths, Add	4.30	
For Standard Strength, Deduct	-1.08	
For >1,000, Deduct	-1.86	
33 42 11 00-0370 LF 8" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	44.58	
For 3' Lengths, Add	4.56	
For 2' Lengths, Add	6.08	
For Standard Strength, Deduct	-1.52	
For >1,000, Deduct	-2.23	
33 42 11 00-0371 LF 10" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	56.02	
For 3' Lengths, Add	7.49	
For 2' Lengths, Add	9.98	
For Standard Strength, Deduct	-2.50	
For >1,000, Deduct	-2.80	
33 42 11 00-0372 LF 12" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	66.66	
For 3' Lengths, Add	9.83	
For 2' Lengths, Add	13.11	
For Standard Strength, Deduct	-3.28	
For >1,000, Deduct	-3.33	
33 42 11 00-0373 LF 15" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	97.48	
For 3' Lengths, Add	17.93	
For 2' Lengths, Add	23.91	
For Standard Strength, Deduct	-5.98	
For >1,000, Deduct	-4.87	
33 42 11 00-0374 LF 18" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	134.54	
For 3' Lengths, Add	26.25	
For 2' Lengths, Add	35.00	
For Standard Strength, Deduct	-8.75	
For >1,000, Deduct	-6.73	
33 42 11 00-0375 LF 21" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	192.44	
For 3' Lengths, Add	39.94	
For 2' Lengths, Add	53.25	
For Standard Strength, Deduct	-13.31	
For >1,000, Deduct	-9.62	
33 42 11 00-0376 LF 24" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	250.75	
For 3' Lengths, Add	53.62	
For 2' Lengths, Add	71.50	
For Standard Strength, Deduct	-17.87	
For >1,000, Deduct	-12.54	
33 42 11 00-0377 LF 30" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	398.39	
For 3' Lengths, Add	93.28	
For 2' Lengths, Add	124.38	
For Standard Strength, Deduct	-31.09	
For >1,000, Deduct	-19.92	
33 42 11 00-0378 LF 36" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	564.22	
For 3' Lengths, Add	137.41	
For 2' Lengths, Add	183.21	
For Standard Strength, Deduct	-45.80	
For >1,000, Deduct	-28.21	
33 42 11 00-0379 Extra Strength, Vitrified Clay Pipe Fittings (33 42 11 00-0353)		
33 42 11 00-0380 1/8 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0379)		
33 42 11 00-0381 Plain End 1/8 Bend, Extra Strength, Vitrified Clay (33 42 11 00-0380)		
33 42 11 00-0382 EA 4" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	86.43	
33 42 11 00-0383 EA 6" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	116.00	
33 42 11 00-0384 EA 8" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	164.30	
33 42 11 00-0385 EA 10" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	224.87	
33 42 11 00-0386 EA 12" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	295.48	
33 42 11 00-0387 EA 15" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	693.74	
33 42 11 00-0388 EA 18" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	976.78	
33 42 11 00-0389 EA 21" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	1,520.15	
33 42 11 00-0390 EA 24" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	1,755.45	
33 42 11 00-0391 EA 30" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	2,040.20	
33 42 11 00-0392 EA 36" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	3,051.07	
33 42 11 00-0393 Compression Joint 1/8 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0380)		



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0394	EA	4" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	98.03	
33 42 11 00-0395	EA	6" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	138.14	
33 42 11 00-0396	EA	8" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	185.85	
33 42 11 00-0397	EA	10" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	248.19	
33 42 11 00-0398	EA	12" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	313.61	
33 42 11 00-0399	EA	15" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	779.06	
33 42 11 00-0400	EA	18" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	1,130.76	
33 42 11 00-0401	EA	21" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	1,166.15	
33 42 11 00-0402	EA	24" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	2,246.46	
33 42 11 00-0403	EA	30" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	2,505.08	
33 42 11 00-0404	EA	36" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	3,709.00	
33 42 11 00-0405		1/4 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0379)		
33 42 11 00-0406		Plain End 1/4 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0405)		
33 42 11 00-0407	EA	4" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	101.94	
33 42 11 00-0408	EA	6" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	134.70	
33 42 11 00-0409	EA	8" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	186.16	
33 42 11 00-0410	EA	10" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	248.93	
33 42 11 00-0411	EA	12" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	322.59	
33 42 11 00-0412	EA	15" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	723.91	
33 42 11 00-0413	EA	18" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	1,014.40	
33 42 11 00-0414	EA	21" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	1,567.60	
33 42 11 00-0415	EA	24" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	1,813.07	
33 42 11 00-0416	EA	30" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	2,112.05	
33 42 11 00-0417	EA	36" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	3,130.94	
33 42 11 00-0418		Compression Joint 1/4 Bends, Extra Strength, Vitrified Clay (33 42 11 00-0405)		
33 42 11 00-0419	EA	4" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	116.64	
33 42 11 00-0420	EA	6" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	160.57	
33 42 11 00-0421	EA	8" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	212.09	
33 42 11 00-0422	EA	10" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	277.07	
33 42 11 00-0423	EA	12" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	346.15	
33 42 11 00-0424	EA	15" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	815.25	
33 42 11 00-0425	EA	18" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	1,175.90	
33 42 11 00-0426	EA	21" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	2,266.79	
33 42 11 00-0427	EA	24" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	2,315.60	
33 42 11 00-0428	EA	30" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	2,591.29	
33 42 11 00-0429	EA	36" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	3,804.83	
33 42 11 00-0430		Wyes Or Tees, Extra Strength, Vitrified Clay (33 42 11 00-0379)		
33 42 11 00-0431		Plain End Wyes Or Tees, Extra Strength, Vitrified Clay (33 42 11 00-0430)		
33 42 11 00-0432	EA	4" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	113.03	
33 42 11 00-0433	EA	6" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	146.70	
33 42 11 00-0434	EA	8" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	197.46	
33 42 11 00-0435	EA	10" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	259.85	
33 42 11 00-0436	EA	12" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	326.52	
33 42 11 00-0437	EA	15" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	734.67	
33 42 11 00-0438	EA	18" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	1,025.31	
33 42 11 00-0439	EA	21" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	1,477.25	
33 42 11 00-0440	EA	24" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	2,050.65	
33 42 11 00-0441	EA	30" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	2,176.89	
33 42 11 00-0442	EA	36" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	3,116.65	
33 42 11 00-0443		Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay (33 42 11 00-0430)		
33 42 11 00-0444	EA	4" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	137.91	
33 42 11 00-0445	EA	6" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	187.43	
33 42 11 00-0446	EA	8" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	245.03	
33 42 11 00-0447	EA	10" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	316.04	
33 42 11 00-0448	EA	12" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	392.18	
33 42 11 00-0449	EA	15" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	893.35	
33 42 11 00-0450	EA	18" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	1,283.26	
33 42 11 00-0451	EA	21" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	1,899.05	
33 42 11 00-0452	EA	24" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	2,512.19	
33 42 11 00-0453	EA	30" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay.....	2,909.72	
33 42 11 00-0454	EA	36" Compression Joint, Extra Strength, Vitrified Clay Wye Or Tee.....	4,114.53	
33 42 11 00-0455		Vitrified Clay Couplings (33 42 11 00-0353)		
33 42 11 00-0456		Vitrified Clay To Cast Iron Or Plastic Pipe Couplings (33 42 11 00-0455)		
Note: Stainless steel tightening band at each end (Fernco #1002)				
33 42 11 00-0457	EA	4" x 3" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling.....	51.00	
33 42 11 00-0458	EA	4" x 4" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling.....	50.45	
33 42 11 00-0459	EA	5" x 4" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling.....	71.28	
33 42 11 00-0460	EA	5" x 5" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling.....	66.85	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0461 EA 6" x 4" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	88.08	
33 42 11 00-0462 EA 6" x 5" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	91.93	
33 42 11 00-0463 EA 6" x 6" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	83.42	
33 42 11 00-0464 EA 8" x 6" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	123.42	
33 42 11 00-0465 EA 8" x 8" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	113.69	
33 42 11 00-0466 EA 10" x 8" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	163.11	
33 42 11 00-0467 EA 10" x 10" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	148.08	
33 42 11 00-0468 EA 12" x 10" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	203.94	
33 42 11 00-0469 EA 12" x 12" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	169.42	
33 42 11 00-0470 EA 15" x 12" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	349.42	
33 42 11 00-0471 EA 15" x 15" Vitrified Clay To Cast Iron Or Plastic Pipe Coupling	267.16	
33 42 11 00-0472 Vitrified Clay To Vitrified Clay Pipe Non-Shear Couplings (33 42 11 00-0455)		
Note: Stainless steel tightening band at each end. (NDS Non-shear)		
33 42 11 00-0473 EA 4" x 4" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	76.46	
33 42 11 00-0474 EA 6" x 4" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	101.05	
33 42 11 00-0475 EA 6" x 6" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	106.51	
33 42 11 00-0476 EA 8" x 8" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	111.66	
33 42 11 00-0477 EA 10" x 10" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	136.85	
33 42 11 00-0478 EA 12" x 12" Vitrified Clay To Vitrified Clay Pipe Non-Shear Coupling	158.16	
33 42 11 00-0479 Vitrified Clay To Plastic Pipe Non-Shear Couplings (33 42 11 00-0455)		
Note: Stainless steel tightening band at each end. (NDS Non-shear)		
33 42 11 00-0480 EA 4" x 4" Vitrified Clay To Plastic Pipe Non-Shear Coupling	78.29	
33 42 11 00-0481 EA 6" x 4" Vitrified Clay To Plastic Pipe Non-Shear Coupling	102.88	
33 42 11 00-0482 EA 6" x 6" Vitrified Clay To Plastic Pipe Non-Shear Coupling	94.73	
33 42 11 00-0483 EA 8" x 8" Vitrified Clay To Plastic Pipe Non-Shear Coupling	122.62	
33 42 11 00-0484 EA 10" x 10" Vitrified Clay To Plastic Pipe Non-Shear Coupling	175.21	
33 42 11 00-0485 EA 12" x 12" Vitrified Clay To Plastic Pipe Non-Shear Coupling	197.54	
33 42 11 00-0486 Corrugated Metal Piping (33 42 11)		
33 42 11 00-0487 Galvanized Corrugated Steel Piping (33 42 11 00-0486)		
33 42 11 00-0488 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0487)		
33 42 11 00-0489 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0488)		
33 42 11 00-0490 LF 12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	34.62	9.98
For Bituminous Coated Pipe, Add	3.36	
For Bituminous Coated And 25% Paved, Add	6.87	
For Smooth-Flo, Add	12.27	
33 42 11 00-0491 LF 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	38.94	10.45
For Bituminous Coated Pipe, Add	4.23	
For Bituminous Coated And 25% Paved, Add	8.65	
For Smooth-Flo, Add	15.44	
33 42 11 00-0492 LF 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	43.42	11.41
For Bituminous Coated Pipe, Add	5.12	
For Bituminous Coated And 25% Paved, Add	10.48	
For Smooth-Flo, Add	18.71	
33 42 11 00-0493 LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	49.34	12.36
For Bituminous Coated Pipe, Add	6.13	
For Bituminous Coated And 25% Paved, Add	12.53	
For Smooth-Flo, Add	22.38	
33 42 11 00-0494 LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	54.58	13.31
For Bituminous Coated Pipe, Add	6.90	
For Bituminous Coated And 25% Paved, Add	14.11	
For Smooth-Flo, Add	25.19	
33 42 11 00-0495 LF 30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	72.07	17.11
For Bituminous Coated Pipe, Add	8.95	
For Bituminous Coated And 25% Paved, Add	18.30	
For Smooth-Flo, Add	32.68	
33 42 11 00-0496 LF 36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	93.73	22.20
For Bituminous Coated Pipe, Add	11.28	
For Bituminous Coated And 25% Paved, Add	23.08	
For Smooth-Flo, Add	41.22	
33 42 11 00-0497 LF 42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	106.57	26.25
For Bituminous Coated Pipe, Add	13.35	
For Bituminous Coated And 25% Paved, Add	27.31	
For Smooth-Flo, Add	48.78	
33 42 11 00-0498 LF 48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	119.78	30.29
For Bituminous Coated Pipe, Add	14.96	
For Bituminous Coated And 25% Paved, Add	30.60	
For Smooth-Flo, Add	54.64	
33 42 11 00-0499 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0489)		
33 42 11 00-0500 LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	37.62	9.98
For Bituminous Coated Pipe, Add	3.41	
For Bituminous Coated And 25% Paved, Add	7.90	
For Smooth-Flo, Add	15.97	



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Stormwater Utilities			33 40	
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MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
33 42 11 00-0501	LF	15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	42.64	10.45
		For Bituminous Coated Pipe, Add	4.28	
		For Bituminous Coated And 25% Paved, Add	9.91	
		For Smooth-Flo, Add	20.03	
33 42 11 00-0502	LF	18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	47.89	11.41
		For Bituminous Coated Pipe, Add	5.18	
		For Bituminous Coated And 25% Paved, Add	12.00	
		For Smooth-Flo, Add	24.26	
33 42 11 00-0503	LF	21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	54.50	12.36
		For Bituminous Coated Pipe, Add	6.16	
		For Bituminous Coated And 25% Paved, Add	14.26	
		For Smooth-Flo, Add	28.83	
33 42 11 00-0504	LF	24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	60.58	13.31
		For Bituminous Coated Pipe, Add	6.97	
		For Bituminous Coated And 25% Paved, Add	16.15	
		For Smooth-Flo, Add	32.64	
33 42 11 00-0505	LF	30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	79.40	17.11
		For Bituminous Coated Pipe, Add	8.95	
		For Bituminous Coated And 25% Paved, Add	20.73	
		For Smooth-Flo, Add	41.91	
33 42 11 00-0506	LF	36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	102.63	22.20
		For Bituminous Coated Pipe, Add	11.22	
		For Bituminous Coated And 25% Paved, Add	25.99	
		For Smooth-Flo, Add	52.53	
33 42 11 00-0507	LF	42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	116.75	26.25
		For Bituminous Coated Pipe, Add	13.20	
		For Bituminous Coated And 25% Paved, Add	30.59	
		For Smooth-Flo, Add	61.83	
33 42 11 00-0508	LF	48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	131.43	30.29
		For Bituminous Coated Pipe, Add	14.84	
		For Bituminous Coated And 25% Paved, Add	34.38	
		For Smooth-Flo, Add	69.49	
33 42 11 00-0509	LF	54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	156.84	34.32
		For Bituminous Coated Pipe, Add	18.25	
		For Bituminous Coated And 25% Paved, Add	42.28	
		For Smooth-Flo, Add	85.46	
33 42 11 00-0510		12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping ⁽³³⁾		
		^{42 11 00-0488)}		
33 42 11 00-0511	LF	18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	57.13	11.41
		For Bituminous Coated Pipe, Add	5.93	
		For Bituminous Coated And 25% Paved, Add	10.71	
		For Smooth-Flo, Add	20.58	
33 42 11 00-0512	LF	21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	65.25	12.36
		For Bituminous Coated Pipe, Add	7.01	
		For Bituminous Coated And 25% Paved, Add	12.66	
		For Smooth-Flo, Add	24.33	
33 42 11 00-0513	LF	24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	72.82	12.36
		For Bituminous Coated Pipe, Add	7.95	
		For Bituminous Coated And 25% Paved, Add	14.35	
		For Smooth-Flo, Add	27.58	
33 42 11 00-0514	LF	30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	94.53	17.11
		For Bituminous Coated Pipe, Add	10.10	
		For Bituminous Coated And 25% Paved, Add	18.25	
		For Smooth-Flo, Add	35.06	
33 42 11 00-0515	LF	36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	120.59	22.20
		For Bituminous Coated Pipe, Add	12.49	
		For Bituminous Coated And 25% Paved, Add	22.56	
		For Smooth-Flo, Add	43.36	
33 42 11 00-0516	LF	42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	137.51	26.25
		For Bituminous Coated Pipe, Add	14.64	
		For Bituminous Coated And 25% Paved, Add	26.44	
		For Smooth-Flo, Add	50.81	
33 42 11 00-0517	LF	48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	155.21	30.29
		For Bituminous Coated Pipe, Add	16.53	
		For Bituminous Coated And 25% Paved, Add	29.85	
		For Smooth-Flo, Add	57.37	
33 42 11 00-0518	LF	54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	183.10	34.32
		For Bituminous Coated Pipe, Add	19.82	
		For Bituminous Coated And 25% Paved, Add	35.80	
		For Smooth-Flo, Add	68.79	
33 42 11 00-0519	LF	60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	200.16	36.34
		For Bituminous Coated Pipe, Add	21.71	
		For Bituminous Coated And 25% Paved, Add	39.20	
		For Smooth-Flo, Add	75.34	
33 42 11 00-0520	LF	66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	242.43	44.41
		For Bituminous Coated Pipe, Add	26.43	
		For Bituminous Coated And 25% Paved, Add	47.73	
		For Smooth-Flo, Add	91.72	
33 42 11 00-0521		10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping ⁽³³⁾		
		^{42 11 00-0488)}		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0522	LF	36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	137.40 15.89 26.55 37.88	22.20
33 42 11 00-0523	LF	42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	157.18 18.62 31.10 44.38	26.25
33 42 11 00-0524	LF	48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	177.54 21.04 35.15 50.16	30.29
33 42 11 00-0525	LF	54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	208.11 24.92 41.63 59.41	34.32
33 42 11 00-0526	LF	60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	228.00 27.37 45.73 65.24	36.34
33 42 11 00-0527	LF	66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	273.01 32.74 54.70 78.04	44.41
33 42 11 00-0528	LF	72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	328.22 35.16 58.73 83.80	64.60
33 42 11 00-0529		3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0487)		
33 42 11 00-0530		16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0529)		
33 42 11 00-0531	LF	36" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	109.15 12.41 28.17 56.09	22.20
33 42 11 00-0532	LF	42" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	124.25 14.57 33.08 65.87	26.25
33 42 11 00-0533	LF	48" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	139.69 16.34 37.10 73.87	30.29
33 42 11 00-0534	LF	54" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	166.32 19.96 45.32 90.24	34.32
33 42 11 00-0535	LF	60" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	181.22 21.75 49.37 98.31	36.34
33 42 11 00-0536	LF	66" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	226.66 27.94 63.42 126.28	44.41
33 42 11 00-0537	LF	72" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	277.37 29.78 67.60 134.61	64.60
33 42 11 00-0538	LF	78" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	299.46 31.63 71.80 142.96	70.66
33 42 11 00-0539	LF	84" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	318.79 33.48 75.99 151.31	75.71
33 42 11 00-0540	LF	90" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	338.16 35.33 80.20 159.70	80.76
33 42 11 00-0541	LF	96" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	358.21 37.17 84.38 168.03	85.80
33 42 11 00-0542	LF	102" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	381.12 39.04 88.61 176.44	90.85

33 42 11 00-0543 **14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping** (33 42 11 00-0529)



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		UOM	DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI				UNIT COST	UNIT COST
33 42 11 00-0544	LF	54"	14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	182.05 23.11 45.30 91.52	34.32
33 42 11 00-0545	LF	60"	14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	198.63 25.23 49.45 99.92	36.34
33 42 11 00-0546	LF	66"	14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	245.81 31.77 62.27 125.80	44.41
33 42 11 00-0547	LF	72"	14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	298.23 33.95 66.55 134.45	64.60
33 42 11 00-0548	LF	78"	14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	321.99 36.13 70.82 143.09	70.66
33 42 11 00-0549	LF	84"	14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	343.11 38.34 75.15 151.83	75.71
33 42 11 00-0550	LF	90"	14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	364.11 40.52 79.42 160.47	80.76
33 42 11 00-0551	LF	96"	14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	385.87 42.71 83.70 169.12	85.80
33 42 11 00-0552	LF	102"	14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	410.46 44.90 88.01 177.82	90.85
33 42 11 00-0553	LF	108"	14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	437.38 47.10 92.32 186.52	100.94
33 42 11 00-0554	LF	114"	14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	463.69 49.26 96.54 195.05	111.03
33 42 11 00-0555			12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0529)		
33 42 11 00-0556	LF	60"	12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	237.24 32.95 62.78 102.32	36.34
33 42 11 00-0557	LF	66"	12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	288.57 40.32 76.81 125.19	44.41
33 42 11 00-0558	LF	72"	12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	344.72 43.25 82.39 134.29	64.60
33 42 11 00-0559	LF	78"	12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	372.25 46.19 87.98 143.41	70.66
33 42 11 00-0560	LF	84"	12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	397.10 49.14 93.61 152.57	75.71
33 42 11 00-0561	LF	90"	12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	421.87 52.07 99.20 161.69	80.76
33 42 11 00-0562	LF	96"	12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	447.43 55.02 104.81 170.83	85.80
33 42 11 00-0563	LF	102"	12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	475.78 57.97 110.43 179.99	90.85
33 42 11 00-0564	LF	108"	12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	506.41 60.91 116.03 189.11	100.94

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0565 LF 114" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	536.52	111.03
For Bituminous Coated Pipe, Add	63.82	
For Bituminous Coated And 25% Paved, Add	121.58	
For Smooth-Flo, Add	198.17	
33 42 11 00-0566 LF 120" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	565.53	121.13
For Bituminous Coated Pipe, Add	66.77	
For Bituminous Coated And 25% Paved, Add	127.20	
For Smooth-Flo, Add	207.33	
33 42 11 00-0567 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0529)		
33 42 11 00-0568 LF 72" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	388.07	64.60
For Bituminous Coated Pipe, Add	51.92	
For Bituminous Coated And 25% Paved, Add	98.65	
For Smooth-Flo, Add	131.88	
33 42 11 00-0569 LF 78" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	419.17	70.66
For Bituminous Coated Pipe, Add	55.57	
For Bituminous Coated And 25% Paved, Add	105.58	
For Smooth-Flo, Add	141.15	
33 42 11 00-0570 LF 84" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	447.57	75.71
For Bituminous Coated Pipe, Add	59.23	
For Bituminous Coated And 25% Paved, Add	112.54	
For Smooth-Flo, Add	150.45	
33 42 11 00-0571 LF 90" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	475.90	80.76
For Bituminous Coated Pipe, Add	62.88	
For Bituminous Coated And 25% Paved, Add	119.47	
For Smooth-Flo, Add	159.72	
33 42 11 00-0572 LF 96" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	505.02	85.80
For Bituminous Coated Pipe, Add	66.54	
For Bituminous Coated And 25% Paved, Add	126.42	
For Smooth-Flo, Add	169.00	
33 42 11 00-0573 LF 102" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	536.93	90.85
For Bituminous Coated Pipe, Add	70.20	
For Bituminous Coated And 25% Paved, Add	133.38	
For Smooth-Flo, Add	178.30	
33 42 11 00-0574 LF 108" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	571.11	100.94
For Bituminous Coated Pipe, Add	73.85	
For Bituminous Coated And 25% Paved, Add	140.31	
For Smooth-Flo, Add	187.57	
33 42 11 00-0575 LF 114" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	604.74	111.03
For Bituminous Coated Pipe, Add	77.47	
For Bituminous Coated And 25% Paved, Add	147.19	
For Smooth-Flo, Add	196.76	
33 42 11 00-0576 LF 120" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	637.35	121.13
For Bituminous Coated Pipe, Add	81.14	
For Bituminous Coated And 25% Paved, Add	154.16	
For Smooth-Flo, Add	206.09	
33 42 11 00-0577 LF 126" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	671.78	131.23
For Bituminous Coated Pipe, Add	84.77	
For Bituminous Coated And 25% Paved, Add	161.06	
For Smooth-Flo, Add	215.32	
33 42 11 00-0578 LF 132" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	708.79	141.32
For Bituminous Coated Pipe, Add	88.43	
For Bituminous Coated And 25% Paved, Add	168.02	
For Smooth-Flo, Add	224.62	
33 42 11 00-0579 LF 138" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	748.91	151.41
For Bituminous Coated Pipe, Add	92.10	
For Bituminous Coated And 25% Paved, Add	174.99	
For Smooth-Flo, Add	233.94	
33 42 11 00-0580 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0487)		
33 42 11 00-0581 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0580)		
33 42 11 00-0582 LF 48" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	140.14	30.29
For Bituminous Coated Pipe, Add	20.54	
For Bituminous Coated And 25% Paved, Add	46.84	
For Smooth-Flo, Add	74.36	
33 42 11 00-0583 LF 54" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	167.20	34.32
For Bituminous Coated Pipe, Add	25.18	
For Bituminous Coated And 25% Paved, Add	57.40	
For Smooth-Flo, Add	91.13	
33 42 11 00-0584 LF 60" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	181.99	36.34
For Bituminous Coated Pipe, Add	27.38	
For Bituminous Coated And 25% Paved, Add	62.43	
For Smooth-Flo, Add	99.12	
33 42 11 00-0585 LF 66" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	224.85	44.41
For Bituminous Coated Pipe, Add	34.47	
For Bituminous Coated And 25% Paved, Add	78.59	
For Smooth-Flo, Add	124.78	



Utilities			33	CS
Stormwater Utilities			33 40	
Stormwater Conveyance			33 42	

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
33 42 11 00-0586	LF	72" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	275.35	64.60
		For Bituminous Coated Pipe, Add	36.72	
		For Bituminous Coated And 25% Paved, Add	83.72	
		For Smooth-Flo, Add	132.93	
33 42 11 00-0587	LF	78" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	297.16	70.66
		For Bituminous Coated Pipe, Add	38.96	
		For Bituminous Coated And 25% Paved, Add	88.83	
		For Smooth-Flo, Add	141.04	
33 42 11 00-0588	LF	84" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	316.18	75.71
		For Bituminous Coated Pipe, Add	41.19	
		For Bituminous Coated And 25% Paved, Add	93.92	
		For Smooth-Flo, Add	149.12	
33 42 11 00-0589	LF	90" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	335.16	80.76
		For Bituminous Coated Pipe, Add	43.42	
		For Bituminous Coated And 25% Paved, Add	98.99	
		For Smooth-Flo, Add	157.16	
33 42 11 00-0590	LF	96" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	355.04	85.80
		For Bituminous Coated Pipe, Add	45.68	
		For Bituminous Coated And 25% Paved, Add	104.14	
		For Smooth-Flo, Add	165.34	
33 42 11 00-0591	LF	102" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	377.88	90.85
		For Bituminous Coated Pipe, Add	47.99	
		For Bituminous Coated And 25% Paved, Add	109.41	
		For Smooth-Flo, Add	173.71	
33 42 11 00-0592		14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0580)		
33 42 11 00-0593	LF	54" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	186.87	34.32
		For Bituminous Coated Pipe, Add	24.07	
		For Bituminous Coated And 25% Paved, Add	56.57	
		For Smooth-Flo, Add	102.43	
33 42 11 00-0594	LF	60" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	203.86	36.34
		For Bituminous Coated Pipe, Add	26.28	
		For Bituminous Coated And 25% Paved, Add	61.75	
		For Smooth-Flo, Add	111.81	
33 42 11 00-0595	LF	66" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	248.70	44.41
		For Bituminous Coated Pipe, Add	32.35	
		For Bituminous Coated And 25% Paved, Add	76.01	
		For Smooth-Flo, Add	137.63	
33 42 11 00-0596	LF	72" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	301.12	64.60
		For Bituminous Coated Pipe, Add	34.53	
		For Bituminous Coated And 25% Paved, Add	81.15	
		For Smooth-Flo, Add	146.93	
33 42 11 00-0597	LF	78" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	325.27	70.66
		For Bituminous Coated Pipe, Add	36.79	
		For Bituminous Coated And 25% Paved, Add	86.46	
		For Smooth-Flo, Add	156.54	
33 42 11 00-0598	LF	84" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	346.49	75.71
		For Bituminous Coated Pipe, Add	39.02	
		For Bituminous Coated And 25% Paved, Add	91.69	
		For Smooth-Flo, Add	166.01	
33 42 11 00-0599	LF	90" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	366.55	80.76
		For Bituminous Coated Pipe, Add	41.01	
		For Bituminous Coated And 25% Paved, Add	96.37	
		For Smooth-Flo, Add	174.50	
33 42 11 00-0600	LF	96" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	389.60	85.80
		For Bituminous Coated Pipe, Add	43.45	
		For Bituminous Coated And 25% Paved, Add	102.11	
		For Smooth-Flo, Add	184.89	
33 42 11 00-0601	LF	102" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	414.29	90.85
		For Bituminous Coated Pipe, Add	45.67	
		For Bituminous Coated And 25% Paved, Add	107.32	
		For Smooth-Flo, Add	194.33	
33 42 11 00-0602	LF	108" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	441.22	100.94
		For Bituminous Coated Pipe, Add	47.87	
		For Bituminous Coated And 25% Paved, Add	112.49	
		For Smooth-Flo, Add	203.68	
33 42 11 00-0603	LF	114" 14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	468.02	111.03
		For Bituminous Coated Pipe, Add	50.12	
		For Bituminous Coated And 25% Paved, Add	117.79	
		For Smooth-Flo, Add	213.27	
33 42 11 00-0604		12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0580)		
33 42 11 00-0605	LF	60" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	244.81	36.34
		For Bituminous Coated Pipe, Add	34.47	
		For Bituminous Coated And 25% Paved, Add	65.49	
		For Smooth-Flo, Add	118.23	
33 42 11 00-0606	LF	66" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	293.80	44.41
		For Bituminous Coated Pipe, Add	41.37	
		For Bituminous Coated And 25% Paved, Add	78.60	
		For Smooth-Flo, Add	141.89	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0607	LF	72" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	350.51	64.60
		For Bituminous Coated Pipe, Add	44.41	
		For Bituminous Coated And 25% Paved, Add	84.38	
		For Smooth-Flo, Add	152.32	
33 42 11 00-0608	LF	78" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	378.46	70.66
		For Bituminous Coated Pipe, Add	47.43	
		For Bituminous Coated And 25% Paved, Add	90.11	
		For Smooth-Flo, Add	162.68	
33 42 11 00-0609	LF	84" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	403.52	75.71
		For Bituminous Coated Pipe, Add	50.42	
		For Bituminous Coated And 25% Paved, Add	95.80	
		For Smooth-Flo, Add	172.95	
33 42 11 00-0610	LF	90" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	428.78	80.76
		For Bituminous Coated Pipe, Add	53.46	
		For Bituminous Coated And 25% Paved, Add	101.57	
		For Smooth-Flo, Add	183.35	
33 42 11 00-0611	LF	96" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	454.69	85.80
		For Bituminous Coated Pipe, Add	56.47	
		For Bituminous Coated And 25% Paved, Add	107.29	
		For Smooth-Flo, Add	193.69	
33 42 11 00-0612	LF	102" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	483.32	90.85
		For Bituminous Coated Pipe, Add	59.48	
		For Bituminous Coated And 25% Paved, Add	113.00	
		For Smooth-Flo, Add	204.00	
33 42 11 00-0613	LF	108" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	514.43	100.94
		For Bituminous Coated Pipe, Add	62.51	
		For Bituminous Coated And 25% Paved, Add	118.77	
		For Smooth-Flo, Add	214.41	
33 42 11 00-0614	LF	114" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	545.03	111.03
		For Bituminous Coated Pipe, Add	65.52	
		For Bituminous Coated And 25% Paved, Add	124.50	
		For Smooth-Flo, Add	224.75	
33 42 11 00-0615	LF	120" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	574.36	121.13
		For Bituminous Coated Pipe, Add	68.54	
		For Bituminous Coated And 25% Paved, Add	130.22	
		For Smooth-Flo, Add	235.09	
33 42 11 00-0616		10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel		
		Piping (33 42 11 00-0580)		
33 42 11 00-0617	LF	72" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	397.81	64.60
		For Bituminous Coated Pipe, Add	53.87	
		For Bituminous Coated And 25% Paved, Add	102.35	
		For Smooth-Flo, Add	160.80	
33 42 11 00-0618	LF	78" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	430.15	70.66
		For Bituminous Coated Pipe, Add	57.77	
		For Bituminous Coated And 25% Paved, Add	109.76	
		For Smooth-Flo, Add	172.43	
33 42 11 00-0619	LF	84" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	459.32	75.71
		For Bituminous Coated Pipe, Add	61.58	
		For Bituminous Coated And 25% Paved, Add	117.01	
		For Smooth-Flo, Add	183.82	
33 42 11 00-0620	LF	90" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	488.32	80.76
		For Bituminous Coated Pipe, Add	65.36	
		For Bituminous Coated And 25% Paved, Add	124.19	
		For Smooth-Flo, Add	195.11	
33 42 11 00-0621	LF	96" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	518.27	85.80
		For Bituminous Coated Pipe, Add	69.19	
		For Bituminous Coated And 25% Paved, Add	131.45	
		For Smooth-Flo, Add	206.52	
33 42 11 00-0622	LF	102" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	550.81	90.85
		For Bituminous Coated Pipe, Add	72.97	
		For Bituminous Coated And 25% Paved, Add	138.65	
		For Smooth-Flo, Add	217.83	
33 42 11 00-0623	LF	108" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	585.83	100.94
		For Bituminous Coated Pipe, Add	76.79	
		For Bituminous Coated And 25% Paved, Add	145.90	
		For Smooth-Flo, Add	229.22	
33 42 11 00-0624	LF	114" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	620.40	111.03
		For Bituminous Coated Pipe, Add	80.60	
		For Bituminous Coated And 25% Paved, Add	153.14	
		For Smooth-Flo, Add	240.59	
33 42 11 00-0625	LF	120" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	653.60	121.13
		For Bituminous Coated Pipe, Add	84.39	
		For Bituminous Coated And 25% Paved, Add	160.33	
		For Smooth-Flo, Add	251.89	
33 42 11 00-0626	LF	126" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	694.87	131.23
		For Bituminous Coated Pipe, Add	89.39	
		For Bituminous Coated And 25% Paved, Add	169.84	
		For Smooth-Flo, Add	266.82	
33 42 11 00-0627	LF	132" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	734.18	141.32
		For Bituminous Coated Pipe, Add	93.51	
		For Bituminous Coated And 25% Paved, Add	177.67	
		For Smooth-Flo, Add	279.13	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0628	LF	138" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe	777.37	151.41
		<i>For Bituminous Coated Pipe, Add</i>	97.79	
		<i>For Bituminous Coated And 25% Paved, Add</i>	185.81	
		<i>For Smooth-Flo, Add</i>	291.92	
33 42 11 00-0629 Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0487)				
33 42 11 00-0630 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0629)				
33 42 11 00-0631	LF	18" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	49.42	11.41
		<i>For Bituminous Coated Pipe, Add</i>	6.33	
33 42 11 00-0632	LF	21" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	56.39	12.36
		<i>For Bituminous Coated Pipe, Add</i>	7.54	
33 42 11 00-0633	LF	24" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	62.84	13.31
		<i>For Bituminous Coated Pipe, Add</i>	8.57	
33 42 11 00-0634	LF	30" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	82.47	17.11
		<i>For Bituminous Coated Pipe, Add</i>	11.04	
33 42 11 00-0635	LF	36" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	106.46	22.20
		<i>For Bituminous Coated Pipe, Add</i>	13.83	
33 42 11 00-0636	LF	42" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	121.39	26.25
		<i>For Bituminous Coated Pipe, Add</i>	16.31	
33 42 11 00-0637	LF	48" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	136.76	30.29
		<i>For Bituminous Coated Pipe, Add</i>	18.36	
33 42 11 00-0638	LF	54" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	163.01	34.32
		<i>For Bituminous Coated Pipe, Add</i>	22.49	
33 42 11 00-0639	LF	60" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	177.84	36.34
		<i>For Bituminous Coated Pipe, Add</i>	24.55	
33 42 11 00-0640 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0629)				
33 42 11 00-0641	LF	18" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	53.95	11.41
		<i>For Bituminous Coated Pipe, Add</i>	7.32	
33 42 11 00-0642	LF	21" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	61.69	12.36
		<i>For Bituminous Coated Pipe, Add</i>	8.70	
33 42 11 00-0643	LF	24" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	68.88	13.31
		<i>For Bituminous Coated Pipe, Add</i>	9.89	
33 42 11 00-0644	LF	30" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	89.96	17.11
		<i>For Bituminous Coated Pipe, Add</i>	12.67	
33 42 11 00-0645	LF	36" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	115.50	22.20
		<i>For Bituminous Coated Pipe, Add</i>	15.80	
33 42 11 00-0646	LF	42" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	131.96	26.25
		<i>For Bituminous Coated Pipe, Add</i>	18.61	
33 42 11 00-0647	LF	48" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	148.83	30.29
		<i>For Bituminous Coated Pipe, Add</i>	20.99	
33 42 11 00-0648	LF	54" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	176.58	34.32
		<i>For Bituminous Coated Pipe, Add</i>	25.43	
33 42 11 00-0649	LF	60" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	192.94	36.34
		<i>For Bituminous Coated Pipe, Add</i>	27.83	
33 42 11 00-0650	LF	66" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	236.64	44.41
		<i>For Bituminous Coated Pipe, Add</i>	34.57	
33 42 11 00-0651	LF	72" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	288.39	64.60
		<i>For Bituminous Coated Pipe, Add</i>	36.94	
33 42 11 00-0652	LF	78" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	311.67	70.66
		<i>For Bituminous Coated Pipe, Add</i>	39.35	
33 42 11 00-0653 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0629)				
33 42 11 00-0654	LF	30" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	105.17	17.11
		<i>For Bituminous Coated Pipe, Add</i>	13.24	
33 42 11 00-0655	LF	36" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	133.67	22.20
		<i>For Bituminous Coated Pipe, Add</i>	16.36	
33 42 11 00-0656	LF	42" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	153.24	26.25
		<i>For Bituminous Coated Pipe, Add</i>	19.25	
33 42 11 00-0657	LF	48" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	173.11	30.29
		<i>For Bituminous Coated Pipe, Add</i>	21.76	
33 42 11 00-0658	LF	54" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	203.92	34.32
		<i>For Bituminous Coated Pipe, Add</i>	25.97	
33 42 11 00-0659	LF	60" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	223.36	36.34
		<i>For Bituminous Coated Pipe, Add</i>	28.52	
33 42 11 00-0660	LF	66" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	270.01	44.41
		<i>For Bituminous Coated Pipe, Add</i>	34.59	
33 42 11 00-0661	LF	72" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	324.77	64.60
		<i>For Bituminous Coated Pipe, Add</i>	37.10	
33 42 11 00-0662	LF	78" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	351.05	70.66
		<i>For Bituminous Coated Pipe, Add</i>	39.64	
33 42 11 00-0663	LF	84" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	374.50	75.71
		<i>For Bituminous Coated Pipe, Add</i>	42.16	
33 42 11 00-0664	LF	90" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	397.91	80.76
		<i>For Bituminous Coated Pipe, Add</i>	44.68	
33 42 11 00-0665	LF	96" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	422.07	85.80
		<i>For Bituminous Coated Pipe, Add</i>	47.20	
33 42 11 00-0666	LF	102" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	447.53	90.85
		<i>For Bituminous Coated Pipe, Add</i>	49.44	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0667 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0487)		
33 42 11 00-0668 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0667)		
33 42 11 00-0669 LF 6" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	18.01	5.71
For Bituminous Coated Pipe, Add	1.62	
33 42 11 00-0670 LF 6" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	19.36	5.71
For Bituminous Coated Pipe, Add	1.95	
33 42 11 00-0671 LF 8" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	22.57	7.13
For Bituminous Coated Pipe, Add	2.14	
33 42 11 00-0672 LF 8" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	24.28	7.13
For Bituminous Coated Pipe, Add	2.56	
33 42 11 00-0673 LF 10" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	28.53	8.56
For Bituminous Coated Pipe, Add	2.69	
33 42 11 00-0674 LF 10" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	30.70	8.56
For Bituminous Coated Pipe, Add	3.22	
33 42 11 00-0675 Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0667)		
33 42 11 00-0676 LF 6" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	18.20	5.71
For Bituminous Coated Pipe, Add	1.60	
33 42 11 00-0677 LF 6" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	19.51	5.71
For Bituminous Coated Pipe, Add	1.90	
33 42 11 00-0678 LF 8" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	22.76	7.13
For Bituminous Coated Pipe, Add	2.10	
33 42 11 00-0679 LF 8" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	24.58	7.13
For Bituminous Coated Pipe, Add	2.53	
33 42 11 00-0680 LF 10" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	28.85	8.56
For Bituminous Coated Pipe, Add	2.66	
33 42 11 00-0681 LF 10" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	31.08	8.56
For Bituminous Coated Pipe, Add	3.18	
33 42 11 00-0682 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe Fittings (33 42 11 00-0667)		
33 42 11 00-0683 EA 6" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	9.99	
For Bituminous Coated Pipe, Add	2.25	
33 42 11 00-0684 EA 8" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	13.23	
For Bituminous Coated Pipe, Add	2.98	
33 42 11 00-0685 EA 10" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	16.22	
For Bituminous Coated Pipe, Add	3.65	
33 42 11 00-0686 EA 6" 18 Gauge, Band Elbows For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	36.04	
For Bituminous Coated Pipe, Add	4.97	
33 42 11 00-0687 EA 6" End Caps For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	8.53	
For Bituminous Coated Pipe, Add	1.14	
33 42 11 00-0688 EA 8" End Caps For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	10.73	
For Bituminous Coated Pipe, Add	1.70	
33 42 11 00-0689 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0487)		
33 42 11 00-0690 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0689)		
33 42 11 00-0691 LF 12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	54.45	9.98
33 42 11 00-0692 LF 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	63.94	10.45
33 42 11 00-0693 LF 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	73.73	11.41
33 42 11 00-0694 LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	85.56	12.36
33 42 11 00-0695 LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	95.39	13.31
33 42 11 00-0696 LF 30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	124.94	17.11
33 42 11 00-0697 LF 36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	160.50	22.20
33 42 11 00-0698 LF 42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	185.54	26.25
33 42 11 00-0699 LF 48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	208.25	30.29
33 42 11 00-0700 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0689)		
33 42 11 00-0701 LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	61.75	9.98
33 42 11 00-0702 LF 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	72.98	10.45
33 42 11 00-0703 LF 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	84.56	11.41
33 42 11 00-0704 LF 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	98.10	12.36
33 42 11 00-0705 LF 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	109.96	13.31
33 42 11 00-0706 LF 30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	142.82	17.11
33 42 11 00-0707 LF 36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	182.08	22.20
33 42 11 00-0708 LF 42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	210.31	26.25
33 42 11 00-0709 LF 48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	236.52	30.29
33 42 11 00-0710 LF 54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	286.11	34.32
33 42 11 00-0711 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0689)		
33 42 11 00-0712 LF 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	107.13	11.41
33 42 11 00-0713 LF 21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	124.46	12.36
33 42 11 00-0714 LF 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	139.92	13.31



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0715	LF	30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	180.25	17.11
33 42 11 00-0716	LF	36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	217.82	22.20
33 42 11 00-0717	LF	42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	262.67	26.25
33 42 11 00-0718	LF	48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	296.28	30.29
33 42 11 00-0719	LF	54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	354.29	34.32
33 42 11 00-0720	LF	60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	387.13	36.34
33 42 11 00-0721	LF	66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	474.01	44.41
33 42 11 00-0722		10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0689)		
33 42 11 00-0723	LF	36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	268.03	22.20
33 42 11 00-0724	LF	42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	310.37	26.25
33 42 11 00-0725	LF	48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	350.46	30.29
33 42 11 00-0726	LF	54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	414.99	34.32
33 42 11 00-0727	LF	60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	454.70	36.34
33 42 11 00-0728	LF	66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	548.22	44.41
33 42 11 00-0729	LF	72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	622.99	64.60
33 42 11 00-0730		3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0487)		
33 42 11 00-0731		16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0730)		
33 42 11 00-0732	LF	36" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	201.94	22.20
33 42 11 00-0733	LF	42" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	233.32	26.25
33 42 11 00-0734	LF	48" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	261.82	30.29
33 42 11 00-0735	LF	54" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	316.58	34.32
33 42 11 00-0736	LF	60" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	344.71	36.34
33 42 11 00-0737	LF	66" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	438.49	44.41
33 42 11 00-0738	LF	72" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	502.87	64.60
33 42 11 00-0739	LF	78" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	538.59	70.66
33 42 11 00-0740	LF	84" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	571.63	75.71
33 42 11 00-0741	LF	90" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	604.70	80.76
33 42 11 00-0742	LF	96" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	638.40	85.80
33 42 11 00-0743	LF	102" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	675.08	90.85
33 42 11 00-0744		14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0730)		
33 42 11 00-0745	LF	54" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	355.60	34.32
33 42 11 00-0746	LF	60" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	387.84	36.34
33 42 11 00-0747	LF	66" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	486.00	44.41
33 42 11 00-0748	LF	72" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	554.54	64.60
33 42 11 00-0749	LF	78" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	594.48	70.66
33 42 11 00-0750	LF	84" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	631.90	75.71
33 42 11 00-0751	LF	90" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	669.06	80.76
33 42 11 00-0752	LF	96" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	706.96	85.80
33 42 11 00-0753	LF	102" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	747.89	90.85
33 42 11 00-0754	LF	108" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	791.04	100.94
33 42 11 00-0755	LF	114" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	833.29	111.03
33 42 11 00-0756		12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0730)		
33 42 11 00-0757	LF	60" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	485.97	36.34
33 42 11 00-0758	LF	66" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	595.16	44.41
33 42 11 00-0759	LF	72" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	673.17	64.60
33 42 11 00-0760	LF	78" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	722.62	70.66
33 42 11 00-0761	LF	84" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	769.50	75.71
33 42 11 00-0762	LF	90" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	816.19	80.76
33 42 11 00-0763	LF	96" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	863.68	85.80
33 42 11 00-0764	LF	102" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	914.06	90.85
33 42 11 00-0765	LF	108" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	966.60	100.94
33 42 11 00-0766	LF	114" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,018.50	111.03
33 42 11 00-0767	LF	120" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,069.55	121.13
33 42 11 00-0768		10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0730)		
33 42 11 00-0769	LF	72" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	781.26	64.60
33 42 11 00-0770	LF	78" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	839.52	70.66
33 42 11 00-0771	LF	84" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	895.28	75.71
33 42 11 00-0772	LF	90" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	950.81	80.76
33 42 11 00-0773	LF	96" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,007.20	85.80
33 42 11 00-0774	LF	102" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,066.44	90.85
33 42 11 00-0775	LF	108" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,127.87	100.94
33 42 11 00-0776	LF	114" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,188.59	111.03
33 42 11 00-0777	LF	120" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,248.51	121.13
33 42 11 00-0778	LF	126" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,310.09	131.23
33 42 11 00-0779	LF	132" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,374.44	141.32
33 42 11 00-0780	LF	138" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....	1,441.90	151.41
33 42 11 00-0781		125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0487)		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0782		16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0781)		
33 42 11 00-0783	LF	48" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	253.41	30.29
33 42 11 00-0784	LF	54" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	307.32	34.32
33 42 11 00-0785	LF	60" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	334.10	36.34
33 42 11 00-0786	LF	66" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	418.77	44.41
33 42 11 00-0787	LF	72" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	481.54	64.60
33 42 11 00-0788	LF	78" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	515.58	70.66
33 42 11 00-0789	LF	84" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	546.72	75.71
33 42 11 00-0790	LF	90" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	577.78	80.76
33 42 11 00-0791	LF	96" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	609.90	85.80
33 42 11 00-0792	LF	102" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	645.40	90.85
33 42 11 00-0793		14 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0781)		
33 42 11 00-0794	LF	54" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	353.67	34.32
33 42 11 00-0795	LF	60" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	385.72	36.34
33 42 11 00-0796	LF	66" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	475.07	44.41
33 42 11 00-0797	LF	72" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	542.38	64.60
33 42 11 00-0798	LF	78" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	581.91	70.66
33 42 11 00-0799	LF	84" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	618.21	75.71
33 42 11 00-0800	LF	90" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	651.86	80.76
33 42 11 00-0801	LF	96" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	691.50	85.80
33 42 11 00-0802	LF	102" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	731.31	90.85
33 42 11 00-0803	LF	108" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	773.15	100.94
33 42 11 00-0804	LF	114" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	815.27	111.03
33 42 11 00-0805		12 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0781)		
33 42 11 00-0806	LF	60" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	489.19	36.34
33 42 11 00-0807	LF	66" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	589.54	44.41
33 42 11 00-0808	LF	72" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	667.66	64.60
33 42 11 00-0809	LF	78" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	716.70	70.66
33 42 11 00-0810	LF	84" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	762.70	75.71
33 42 11 00-0811	LF	90" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	809.27	80.76
33 42 11 00-0812	LF	96" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	856.30	85.80
33 42 11 00-0813	LF	102" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	905.96	90.85
33 42 11 00-0814	LF	108" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	958.36	100.94
33 42 11 00-0815	LF	114" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,010.08	111.03
33 42 11 00-0816	LF	120" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,060.50	121.13
33 42 11 00-0817		10 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0781)		
33 42 11 00-0818	LF	72" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	781.22	64.60
33 42 11 00-0819	LF	78" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	840.82	70.66
33 42 11 00-0820	LF	84" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	896.78	75.71
33 42 11 00-0821	LF	90" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	952.27	80.76
33 42 11 00-0822	LF	96" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,008.93	85.80
33 42 11 00-0823	LF	102" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,068.08	90.85
33 42 11 00-0824	LF	108" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,129.77	100.94
33 42 11 00-0825	LF	114" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,191.02	111.03
33 42 11 00-0826	LF	120" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,250.81	121.13
33 42 11 00-0827	LF	126" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,327.09	131.23
33 42 11 00-0828	LF	132" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,395.33	141.32
33 42 11 00-0829	LF	138" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,468.50	151.41
33 42 11 00-0830		Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0486)		
33 42 11 00-0831		2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0830)		
33 42 11 00-0832		16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0831)		
33 42 11 00-0833	LF	17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	39.96	10.45
		For Bituminous Coated Pipe, Add	4.60	
		For Bituminous Coated And 25% Paved, Add	11.13	
		For Smooth-Flo, Add	18.36	
33 42 11 00-0834	LF	21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	44.33	11.41
		For Bituminous Coated Pipe, Add	5.50	
		For Bituminous Coated And 25% Paved, Add	13.29	
		For Smooth-Flo, Add	21.93	
33 42 11 00-0835	LF	24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch	50.60	12.36
		For Bituminous Coated Pipe, Add	6.62	
		For Bituminous Coated And 25% Paved, Add	16.00	
		For Smooth-Flo, Add	26.39	



		Utilities	33	
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0836	LF	28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	56.70 7.62 18.43 30.41	13.31
33 42 11 00-0837	LF	35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	73.99 9.68 23.41 38.62	17.11
33 42 11 00-0838	LF	42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	97.26 12.49 30.20 49.81	22.20
33 42 11 00-0839		14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0831)		
33 42 11 00-0840	LF	17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	43.69 4.78 11.18 18.33	10.45
33 42 11 00-0841	LF	21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	48.90 5.73 13.40 21.99	11.41
33 42 11 00-0842	LF	24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	55.69 6.81 15.93 26.13	12.36
33 42 11 00-0843	LF	28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	62.60 7.85 18.37 30.13	13.31
33 42 11 00-0844	LF	35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	81.35 9.94 23.26 38.16	17.11
33 42 11 00-0845	LF	42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	106.01 12.67 29.63 48.60	22.20
33 42 11 00-0846	LF	49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	121.57 15.09 35.30 57.90	26.25
33 42 11 00-0847		12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0831)		
33 42 11 00-0848	LF	21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	63.39 6.20 13.79 21.21	12.11
33 42 11 00-0849	LF	24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	72.23 7.35 16.35 25.15	13.12
33 42 11 00-0850	LF	28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	81.03 8.43 18.76 28.85	14.13
33 42 11 00-0851	LF	35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	104.83 10.61 23.62 36.32	18.17
33 42 11 00-0852	LF	42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	123.87 13.28 29.56 45.45	22.20
33 42 11 00-0853	LF	49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	142.18 15.71 34.95 53.75	26.25
33 42 11 00-0854	LF	57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	165.64 18.63 41.45 63.74	30.29
33 42 11 00-0855	LF	64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	185.40 20.57 45.78 70.39	34.32
33 42 11 00-0856		10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0831)		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0857	LF	42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	140.68 16.00 33.69 42.49	22.20
33 42 11 00-0858	LF	49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	161.78 18.88 39.74 50.12	26.25
33 42 11 00-0859	LF	57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	187.86 22.21 46.76 58.97	30.29
33 42 11 00-0860	LF	64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	210.52 24.63 51.85 65.39	34.32
33 42 11 00-0861	LF	71" x 47" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	230.58 27.04 56.92 71.78	36.34
33 42 11 00-0862		3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0830)		
33 42 11 00-0863		14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0862)		
33 42 11 00-0864	LF	60" x 46" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	185.16 23.73 72.15 80.69	34.32
33 42 11 00-0865	LF	66" x 51" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	202.32 25.97 78.95 88.30	36.34
33 42 11 00-0866	LF	73" x 55" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	250.06 32.62 99.16 110.90	44.41
33 42 11 00-0867	LF	81" x 59" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	303.32 34.97 106.31 118.90	64.60
33 42 11 00-0868	LF	87" x 63" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	328.52 37.44 113.82 127.30	70.66
33 42 11 00-0869	LF	95" x 67" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	351.02 39.92 121.36 135.73	75.71
33 42 11 00-0870	LF	103" x 71" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	373.46 42.39 128.87 144.13	80.76
33 42 11 00-0871	LF	112" x 75" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	396.61 44.85 136.36 152.50	85.80
33 42 11 00-0872		12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0862)		
33 42 11 00-0873	LF	66" x 51" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	240.97 33.70 88.29 104.47	36.34
33 42 11 00-0874	LF	73" x 55" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	292.93 41.19 107.92 127.70	44.41
33 42 11 00-0875	LF	81" x 59" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	349.99 44.30 116.08 137.34	64.60
33 42 11 00-0876	LF	87" x 63" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	378.95 47.53 124.52 147.33	70.66
33 42 11 00-0877	LF	95" x 67" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	405.22 50.76 133.00 157.36	75.71
33 42 11 00-0878	LF	103" x 71" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch For Bituminous Coated Pipe, Add For Bituminous Coated And 25% Paved, Add For Smooth-Flo, Add	431.46 53.99 141.46 167.38	80.76



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0879	LF	112" x 75" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	.....	458.38	85.80
		For Bituminous Coated Pipe, Add	.....	57.21	
		For Bituminous Coated And 25% Paved, Add	.....	149.88	
		For Smooth-Flo, Add	.....	177.34	
33 42 11 00-0880	LF	117" x 79" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	.....	488.24	90.85
		For Bituminous Coated Pipe, Add	.....	60.46	
		For Bituminous Coated And 25% Paved, Add	.....	158.41	
		For Smooth-Flo, Add	.....	187.43	
33 42 11 00-0881	LF	128" x 83" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	.....	520.33	100.94
		For Bituminous Coated Pipe, Add	.....	63.69	
		For Bituminous Coated And 25% Paved, Add	.....	166.87	
		For Smooth-Flo, Add	.....	197.44	
33 42 11 00-0882	LF	137" x 87" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	.....	553.61	111.03
		For Bituminous Coated Pipe, Add	.....	67.24	
		For Bituminous Coated And 25% Paved, Add	.....	176.17	
		For Smooth-Flo, Add	.....	208.44	
33 42 11 00-0883 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0882)					
33 42 11 00-0884	LF	81" x 59" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	.....	393.34	64.60
		For Bituminous Coated Pipe, Add	.....	52.97	
		For Bituminous Coated And 25% Paved, Add	.....	126.08	
		For Smooth-Flo, Add	.....	136.94	
33 42 11 00-0885	LF	87" x 63" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	.....	425.90	70.66
		For Bituminous Coated Pipe, Add	.....	56.92	
		For Bituminous Coated And 25% Paved, Add	.....	135.46	
		For Smooth-Flo, Add	.....	147.13	
33 42 11 00-0886	LF	95" x 67" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	.....	455.73	75.71
		For Bituminous Coated Pipe, Add	.....	60.86	
		For Bituminous Coated And 25% Paved, Add	.....	144.86	
		For Smooth-Flo, Add	.....	157.33	
33 42 11 00-0887	LF	103" x 71" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	.....	485.46	80.76
		For Bituminous Coated Pipe, Add	.....	64.79	
		For Bituminous Coated And 25% Paved, Add	.....	154.20	
		For Smooth-Flo, Add	.....	167.49	
33 42 11 00-0888	LF	112" x 75" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	.....	515.97	85.80
		For Bituminous Coated Pipe, Add	.....	68.73	
		For Bituminous Coated And 25% Paved, Add	.....	163.57	
		For Smooth-Flo, Add	.....	177.66	
33 42 11 00-0889	LF	117" x 79" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	.....	549.34	90.85
		For Bituminous Coated Pipe, Add	.....	72.68	
		For Bituminous Coated And 25% Paved, Add	.....	172.98	
		For Smooth-Flo, Add	.....	187.88	
33 42 11 00-0890	LF	128" x 83" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	.....	584.99	100.94
		For Bituminous Coated Pipe, Add	.....	76.62	
		For Bituminous Coated And 25% Paved, Add	.....	182.36	
		For Smooth-Flo, Add	.....	198.07	
33 42 11 00-0891	LF	137" x 87" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	.....	621.55	111.03
		For Bituminous Coated Pipe, Add	.....	80.83	
		For Bituminous Coated And 25% Paved, Add	.....	192.37	
		For Smooth-Flo, Add	.....	208.94	
33 42 11 00-0892	LF	142" x 91" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch	.....	661.07	121.13
		For Bituminous Coated Pipe, Add	.....	85.88	
		For Bituminous Coated And 25% Paved, Add	.....	204.39	
		For Smooth-Flo, Add	.....	222.00	
33 42 11 00-0893 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0830)					
33 42 11 00-0894 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0893)					
33 42 11 00-0895	LF	81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	.....	354.24	64.60
		For Bituminous Coated Pipe, Add	.....	45.15	
		For Bituminous Coated And 25% Paved, Add	.....	110.18	
		For Smooth-Flo, Add	.....	140.20	
33 42 11 00-0896	LF	87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	.....	382.79	70.66
		For Bituminous Coated Pipe, Add	.....	48.29	
		For Bituminous Coated And 25% Paved, Add	.....	117.84	
		For Smooth-Flo, Add	.....	149.95	
33 42 11 00-0897	LF	95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	.....	408.40	75.71
		For Bituminous Coated Pipe, Add	.....	51.40	
		For Bituminous Coated And 25% Paved, Add	.....	125.41	
		For Smooth-Flo, Add	.....	159.59	
33 42 11 00-0898	LF	103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	.....	434.01	80.76
		For Bituminous Coated Pipe, Add	.....	54.50	
		For Bituminous Coated And 25% Paved, Add	.....	132.98	
		For Smooth-Flo, Add	.....	169.23	
33 42 11 00-0899	LF	112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	.....	460.48	85.80
		For Bituminous Coated Pipe, Add	.....	57.63	
		For Bituminous Coated And 25% Paved, Add	.....	140.61	
		For Smooth-Flo, Add	.....	178.93	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0900	LF	117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	489.98 60.81 148.37 188.81	90.85
33 42 11 00-0901	LF	128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	521.72 63.97 156.08 198.62	100.94
33 42 11 00-0902	LF	137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	557.06 67.93 165.75 210.92	111.03
33 42 11 00-0903 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch (33 42 11 00-0893)				
33 42 11 00-0904	LF	81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	402.24 54.75 123.74 134.42	64.60
33 42 11 00-0905	LF	87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	434.62 58.66 132.57 144.01	70.66
33 42 11 00-0906	LF	95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	464.14 62.55 141.35 153.55	75.71
33 42 11 00-0907	LF	103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	493.76 66.45 150.18 163.14	80.76
33 42 11 00-0908	LF	112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	523.47 70.23 158.71 172.40	85.80
33 42 11 00-0909	LF	117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	557.40 74.29 167.90 182.39	90.85
33 42 11 00-0910	LF	128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	593.12 78.25 176.84 192.10	100.94
33 42 11 00-0911	LF	137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	632.40 83.00 187.58 203.76	111.03
33 42 11 00-0912	LF	142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	669.09 87.48 197.71 214.77	121.13
33 42 11 00-0913 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0830)				
33 42 11 00-0914 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0913)				
33 42 11 00-0915	LF	17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	64.00	10.45
33 42 11 00-0916	LF	21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	73.07	11.41
33 42 11 00-0917	LF	24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	85.28	12.36
33 42 11 00-0918	LF	28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	96.73	13.31
33 42 11 00-0919	LF	35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	124.97	17.11
33 42 11 00-0920	LF	42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	163.48	22.20
33 42 11 00-0921 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0913)				
33 42 11 00-0922	LF	17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	72.59	10.45
33 42 11 00-0923	LF	21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	83.56	11.41
33 42 11 00-0924	LF	24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	96.99	12.36
33 42 11 00-0925	LF	28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	110.33	13.31
33 42 11 00-0926	LF	35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	141.89	17.11
33 42 11 00-0927	LF	42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	183.60	22.20
33 42 11 00-0928	LF	49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	214.20	26.25
33 42 11 00-0929 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0913)				
33 42 11 00-0930	LF	21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	109.27	11.41
33 42 11 00-0931	LF	24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	127.44	12.36
33 42 11 00-0932	LF	28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	144.82	13.31
33 42 11 00-0933	LF	35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	184.93	17.11
33 42 11 00-0934	LF	42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	235.59	22.20
33 42 11 00-0935	LF	49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	274.74	26.25



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0936	LF	57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	323.92	30.29
33 42 11 00-0937	LF	64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	359.71	34.32
33 42 11 00-0938		10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0913)		
33 42 11 00-0939	LF	42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	276.36	22.20
33 42 11 00-0940	LF	49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	322.31	26.25
33 42 11 00-0941	LF	57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	377.85	30.29
33 42 11 00-0942	LF	64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	420.69	34.32
33 42 11 00-0943	LF	64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	460.84	36.34
33 42 11 00-0944		3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0830)		
33 42 11 00-0945		14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0944)		
33 42 11 00-0946	LF	60" x 46" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	363.26	34.32
33 42 11 00-0947	LF	66" x 51" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	396.85	36.34
33 42 11 00-0948	LF	73" x 55" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	496.45	44.41
33 42 11 00-0949	LF	81" x 59" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	567.10	64.60
33 42 11 00-0950	LF	87" x 63" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	610.60	70.66
33 42 11 00-0951	LF	95" x 67" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	651.47	75.71
33 42 11 00-0952	LF	103" x 71" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	692.17	80.76
33 42 11 00-0953	LF	112" x 75" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	733.69	85.80
33 42 11 00-0954		12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0944)		
33 42 11 00-0955	LF	66" x 51" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	495.17	36.34
33 42 11 00-0956	LF	73" x 55" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	605.90	44.41
33 42 11 00-0957	LF	81" x 59" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	686.21	64.60
33 42 11 00-0958	LF	87" x 63" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	739.21	70.66
33 42 11 00-0959	LF	95" x 67" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	789.62	75.71
33 42 11 00-0960	LF	103" x 71" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	839.97	80.76
33 42 11 00-0961	LF	112" x 75" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	890.95	85.80
33 42 11 00-0962	LF	117" x 79" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	945.01	90.85
33 42 11 00-0963	LF	128" x 83" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,001.21	100.94
33 42 11 00-0964	LF	137" x 87" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,061.01	111.03
33 42 11 00-0965		10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0944)		
33 42 11 00-0966	LF	81" x 59" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	794.28	64.60
33 42 11 00-0967	LF	87" x 63" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	856.21	70.66
33 42 11 00-0968	LF	95" x 67" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	915.55	75.71
33 42 11 00-0969	LF	103" x 71" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	974.58	80.76
33 42 11 00-0970	LF	112" x 75" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,034.45	85.80
33 42 11 00-0971	LF	117" x 79" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,097.35	90.85
33 42 11 00-0972	LF	128" x 83" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,162.45	100.94
33 42 11 00-0973	LF	137" x 87" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,230.37	111.03
33 42 11 00-0974	LF	142" x 91" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,307.55	121.13
33 42 11 00-0975		125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0830)		
33 42 11 00-0976		12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0975)		
33 42 11 00-0977	LF	81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	676.50	64.60
33 42 11 00-0978	LF	87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	727.06	70.66
33 42 11 00-0979	LF	95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	774.44	75.71
33 42 11 00-0980	LF	103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	821.76	80.76
33 42 11 00-0981	LF	112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	870.12	85.80
33 42 11 00-0982	LF	117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	921.92	90.85
33 42 11 00-0983	LF	128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	975.78	100.94
33 42 11 00-0984	LF	137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,038.87	111.03
33 42 11 00-0985		10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch (33 42 11 00-0975)		
33 42 11 00-0986	LF	81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	791.75	64.60
33 42 11 00-0987	LF	87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	851.47	70.66
33 42 11 00-0988	LF	95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	908.20	75.71
33 42 11 00-0989	LF	103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	965.19	80.76
33 42 11 00-0990	LF	112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,021.41	85.80
33 42 11 00-0991	LF	117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,083.77	90.85
33 42 11 00-0992	LF	128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,147.22	100.94
33 42 11 00-0993	LF	137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,219.90	111.03
33 42 11 00-0994	LF	142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch	1,287.84	121.13
33 42 11 00-0995		Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0486)		

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0996		2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0995)		
33 42 11 00-0997		16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0996)		
33 42 11 00-0998	LF	12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	37.69 6.85	9.98
33 42 11 00-0999	LF	15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	42.82 8.63	10.45
33 42 11 00-1000	LF	18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	48.13 10.46	11.41
33 42 11 00-1001	LF	21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	54.96 12.50	12.36
33 42 11 00-1002	LF	24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	60.92 14.08	13.31
33 42 11 00-1003	LF	30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	80.30 18.26	17.11
33 42 11 00-1004	LF	36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	104.13 23.04	22.20
33 42 11 00-1005	LF	42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	118.85 27.25	26.25
33 42 11 00-1006	LF	48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	133.55 30.53	30.29
33 42 11 00-1007		14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0996)		
33 42 11 00-1008	LF	12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	41.39 6.50	9.98
33 42 11 00-1009	LF	15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	47.39 8.16	10.45
33 42 11 00-1010	LF	18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	53.57 9.87	11.41
33 42 11 00-1011	LF	21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	61.27 11.73	12.36
33 42 11 00-1012	LF	24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	68.25 13.28	13.31
33 42 11 00-1013	LF	30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	89.27 17.06	17.11
33 42 11 00-1014	LF	36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	114.97 21.38	22.20
33 42 11 00-1015	LF	42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	131.33 25.18	26.25
33 42 11 00-1016	LF	48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	147.78 28.29	30.29
33 42 11 00-1017	LF	54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	176.93 34.79	34.32
33 42 11 00-1018		12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0996)		
33 42 11 00-1019	LF	18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	65.01 9.19	11.41
33 42 11 00-1020	LF	21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	74.63 10.88	12.36
33 42 11 00-1021	LF	24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	83.42 12.33	13.31
33 42 11 00-1022	LF	30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	108.21 15.72	17.11
33 42 11 00-1023	LF	36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	137.82 19.50	22.20
33 42 11 00-1024	LF	42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	157.81 22.88	26.25
33 42 11 00-1025	LF	48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	177.99 25.80	30.29
33 42 11 00-1026	LF	54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	211.42 31.16	34.32
33 42 11 00-1027	LF	60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	230.93 34.07	36.34
33 42 11 00-1028	LF	66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	281.84 41.90	44.41
33 42 11 00-1029		10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0996)		
33 42 11 00-1030	LF	36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	158.36 21.36	22.20
33 42 11 00-1031	LF	42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	181.84 25.05	26.25
33 42 11 00-1032	LF	48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe For 1/2 Bituminous Coated And 25% Paved, Add	205.26 28.28	30.29



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1033	LF	54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	242.01 33.70	34.32
33 42 11 00-1034	LF	60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	264.97 36.96	36.34
33 42 11 00-1035	LF	66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	319.23 44.59	44.41
33 42 11 00-1036	LF	72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	377.47 47.81	64.60
33 42 11 00-1037		3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0995)		
33 42 11 00-1038		16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1037)		
33 42 11 00-1039	LF	36" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	120.28 25.61	22.20
33 42 11 00-1040	LF	42" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	137.33 30.08	26.25
33 42 11 00-1041	LF	48" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	154.34 33.73	30.29
33 42 11 00-1042	LF	54" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	184.22 41.20	34.32
33 42 11 00-1043	LF	60" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	200.72 44.89	36.34
33 42 11 00-1044	LF	66" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	251.70 57.66	44.41
33 42 11 00-1045	LF	72" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	304.05 61.45	64.60
33 42 11 00-1046	LF	78" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	327.78 65.26	70.66
33 42 11 00-1047	LF	84" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	348.79 69.08	75.71
33 42 11 00-1048	LF	90" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	369.80 72.91	80.76
33 42 11 00-1049	LF	96" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	391.52 76.71	85.80
33 42 11 00-1050	LF	102" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	416.11 80.56	90.85
33 42 11 00-1051		14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1037)		
33 42 11 00-1052	LF	54" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	202.77 35.70	34.32
33 42 11 00-1053	LF	60" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	221.23 38.98	36.34
33 42 11 00-1054	LF	66" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	274.27 49.07	44.41
33 42 11 00-1055	LF	72" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	328.64 52.44	64.60
33 42 11 00-1056	LF	78" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	354.36 55.82	70.66
33 42 11 00-1057	LF	84" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	377.46 59.23	75.71
33 42 11 00-1058	LF	90" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	400.42 62.60	80.76
33 42 11 00-1059	LF	96" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	424.13 65.97	85.80
33 42 11 00-1060	LF	102" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	450.71 69.37	90.85
33 42 11 00-1061	LF	108" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	479.59 72.76	100.94
33 42 11 00-1062	LF	114" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	507.85 76.10	111.03
33 42 11 00-1063		12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1037)		
33 42 11 00-1064	LF	60" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	266.82 52.28	36.34
33 42 11 00-1065	LF	66" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	324.74 63.96	44.41
33 42 11 00-1066	LF	72" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	383.51 68.61	64.60
33 42 11 00-1067	LF	78" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	413.69 73.27	70.66
33 42 11 00-1068	LF	84" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	441.18 77.95	75.71
33 42 11 00-1069	LF	90" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	468.61 82.61	80.76
33 42 11 00-1070	LF	96" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	496.75 87.27	85.80
33 42 11 00-1071	LF	102" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	527.75 91.95	90.85

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1072	LF	108" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	561.03 96.61	100.94
33 42 11 00-1073	LF	114" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	593.75 101.24	111.03
33 42 11 00-1074	LF	120" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	625.42 105.92	121.13
33 42 11 00-1075 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping				
33 42 11 00-1076	LF	72" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	434.67 84.21	64.60
33 42 11 00-1077	LF	78" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	468.97 90.10	70.66
33 42 11 00-1078	LF	84" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	500.69 96.05	75.71
33 42 11 00-1079	LF	90" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	532.26 101.96	80.76
33 42 11 00-1080	LF	96" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	564.66 107.89	85.80
33 42 11 00-1081	LF	102" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	599.88 113.83	90.85
33 42 11 00-1082	LF	108" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	637.31 119.74	100.94
33 42 11 00-1083	LF	114" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	674.22 125.62	111.03
33 42 11 00-1084	LF	120" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	710.11 131.57	121.13
33 42 11 00-1085	LF	126" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	747.82 137.47	131.23
33 42 11 00-1086	LF	132" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	788.11 143.41	141.32
33 42 11 00-1087	LF	138" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	831.50 149.35	151.41
33 42 11 00-1088 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping				
33 42 11 00-1089 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping				
33 42 11 00-1090	LF	48" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	154.93 41.79	30.29
33 42 11 00-1091	LF	54" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	185.30 51.20	34.32
33 42 11 00-1092	LF	60" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	201.66 55.68	36.34
33 42 11 00-1093	LF	66" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	249.61 70.10	44.41
33 42 11 00-1094	LF	72" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	301.71 74.67	64.60
33 42 11 00-1095	LF	78" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	325.17 79.24	70.66
33 42 11 00-1096	LF	84" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	345.79 83.78	75.71
33 42 11 00-1097	LF	90" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	366.34 88.29	80.76
33 42 11 00-1098	LF	96" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	387.86 92.89	85.80
33 42 11 00-1099	LF	102" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	412.37 97.59	90.85
33 42 11 00-1100 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping				
33 42 11 00-1101	LF	54" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	208.49 48.28	34.32
33 42 11 00-1102	LF	60" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	227.51 52.71	36.34
33 42 11 00-1103	LF	66" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	277.76 64.87	44.41
33 42 11 00-1104	LF	72" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	332.16 69.25	64.60
33 42 11 00-1105	LF	78" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	358.34 73.79	70.66
33 42 11 00-1106	LF	84" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	381.54 78.24	75.71
33 42 11 00-1107	LF	90" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	403.42 82.25	80.76
33 42 11 00-1108	LF	96" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	428.63 87.14	85.80
33 42 11 00-1109	LF	102" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	455.35 91.60	90.85



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST	UNIT COST
33 42 11 00-1110	LF 108" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	484.26		100.94	
	For 1/2 Bituminous Coated And 25% Paved, Add	96.01			
33 42 11 00-1111	LF 114" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	513.08		111.03	
	For 1/2 Bituminous Coated And 25% Paved, Add	100.53			
33 42 11 00-1112	12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1088)				
33 42 11 00-1113	LF 60" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	275.81		36.34	
	For 1/2 Bituminous Coated And 25% Paved, Add	58.16			
33 42 11 00-1114	LF 66" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	331.02		44.41	
	For 1/2 Bituminous Coated And 25% Paved, Add	69.80			
33 42 11 00-1115	LF 72" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	390.48		64.60	
	For 1/2 Bituminous Coated And 25% Paved, Add	74.93			
33 42 11 00-1116	LF 78" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	421.12		70.66	
	For 1/2 Bituminous Coated And 25% Paved, Add	80.02			
33 42 11 00-1117	LF 84" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	448.89		75.71	
	For 1/2 Bituminous Coated And 25% Paved, Add	85.08			
33 42 11 00-1118	LF 90" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	476.91		80.76	
	For 1/2 Bituminous Coated And 25% Paved, Add	90.21			
33 42 11 00-1119	LF 96" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	505.50		85.80	
	For 1/2 Bituminous Coated And 25% Paved, Add	95.28			
33 42 11 00-1120	LF 102" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	536.86		90.85	
	For 1/2 Bituminous Coated And 25% Paved, Add	100.36			
33 42 11 00-1121	LF 108" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	570.69		100.94	
	For 1/2 Bituminous Coated And 25% Paved, Add	105.48			
33 42 11 00-1122	LF 114" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	604.01		111.03	
	For 1/2 Bituminous Coated And 25% Paved, Add	110.57			
33 42 11 00-1123	LF 120" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	636.06		121.13	
	For 1/2 Bituminous Coated And 25% Paved, Add	115.66			
33 42 11 00-1124	10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1088)				
33 42 11 00-1125	LF 72" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	446.32		64.60	
	For 1/2 Bituminous Coated And 25% Paved, Add	90.91			
33 42 11 00-1126	LF 78" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	482.16		70.66	
	For 1/2 Bituminous Coated And 25% Paved, Add	97.48			
33 42 11 00-1127	LF 84" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	514.78		75.71	
	For 1/2 Bituminous Coated And 25% Paved, Add	103.92			
33 42 11 00-1128	LF 90" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	547.19		80.76	
	For 1/2 Bituminous Coated And 25% Paved, Add	110.31			
33 42 11 00-1129	LF 96" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	580.53		85.80	
	For 1/2 Bituminous Coated And 25% Paved, Add	116.74			
33 42 11 00-1130	LF 102" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	616.52		90.85	
	For 1/2 Bituminous Coated And 25% Paved, Add	123.15			
33 42 11 00-1131	LF 108" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	654.96		100.94	
	For 1/2 Bituminous Coated And 25% Paved, Add	129.58			
33 42 11 00-1132	LF 114" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	692.95		111.03	
	For 1/2 Bituminous Coated And 25% Paved, Add	136.00			
33 42 11 00-1133	LF 120" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	729.57		121.13	
	For 1/2 Bituminous Coated And 25% Paved, Add	142.40			
33 42 11 00-1134	LF 126" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	775.37		131.23	
	For 1/2 Bituminous Coated And 25% Paved, Add	150.85			
33 42 11 00-1135	LF 132" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	818.38		141.32	
	For 1/2 Bituminous Coated And 25% Paved, Add	157.80			
33 42 11 00-1136	LF 138" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	865.40		151.41	
	For 1/2 Bituminous Coated And 25% Paved, Add	165.02			
33 42 11 00-1137	Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0995)				
33 42 11 00-1138	16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1137)				
33 42 11 00-1139	LF 18" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	54.37		11.41	
33 42 11 00-1140	LF 21" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	62.18		12.36	
33 42 11 00-1141	LF 24" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	69.47		13.31	
33 42 11 00-1142	LF 30" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	90.73		17.11	
33 42 11 00-1143	LF 36" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	116.37		22.20	
33 42 11 00-1144	LF 42" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	132.97		26.25	
33 42 11 00-1145	LF 48" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	149.98		30.29	
33 42 11 00-1146	LF 54" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	177.90		34.32	
33 42 11 00-1147	LF 60" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	194.37		36.34	
33 42 11 00-1148	14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1137)				
33 42 11 00-1149	LF 18" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	59.74		11.41	
33 42 11 00-1150	LF 21" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	68.46		12.36	
33 42 11 00-1151	LF 24" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	76.58		13.31	
33 42 11 00-1152	LF 30" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	99.63		17.11	
33 42 11 00-1153	LF 36" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	127.08		22.20	
33 42 11 00-1154	LF 42" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe.....	145.49		26.25	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1155 LF 48" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	164.28	30.29
33 42 11 00-1156 LF 54" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	193.98	34.32
33 42 11 00-1157 LF 60" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	212.30	36.34
33 42 11 00-1158 LF 66" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	258.12	44.41
33 42 11 00-1159 LF 72" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	311.79	64.60
33 42 11 00-1160 LF 78" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	336.99	70.66
33 42 11 00-1161 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1137)		
33 42 11 00-1162 LF 30" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	117.66	17.11
33 42 11 00-1163 LF 36" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	148.67	22.20
33 42 11 00-1164 LF 42" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	170.78	26.25
33 42 11 00-1165 LF 48" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	193.13	30.29
33 42 11 00-1166 LF 54" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	226.42	34.32
33 42 11 00-1167 LF 60" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	248.40	36.34
33 42 11 00-1168 LF 66" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	297.74	44.41
33 42 11 00-1169 LF 72" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	354.97	64.60
33 42 11 00-1170 LF 78" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	383.76	70.66
33 42 11 00-1171 LF 84" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	409.69	75.71
33 42 11 00-1172 LF 90" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	435.65	80.76
33 42 11 00-1173 LF 96" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	462.25	85.80
33 42 11 00-1174 LF 102" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe	489.95	90.85
33 42 11 00-1175 Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-0486)		
33 42 11 00-1176 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1175)		
33 42 11 00-1177 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1176)		
33 42 11 00-1178 LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	44.07	10.45
For 1/2 Bituminous Coated And 40% Paved, Add	11.14	
33 42 11 00-1179 LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	49.25	11.41
For 1/2 Bituminous Coated And 40% Paved, Add	13.31	
33 42 11 00-1180 LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	56.49	12.36
For 1/2 Bituminous Coated And 40% Paved, Add	16.01	
33 42 11 00-1181 LF 28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	63.51	13.31
For 1/2 Bituminous Coated And 40% Paved, Add	18.45	
33 42 11 00-1182 LF 35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	82.64	17.11
For 1/2 Bituminous Coated And 40% Paved, Add	23.44	
33 42 11 00-1183 LF 42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	108.42	22.20
For 1/2 Bituminous Coated And 40% Paved, Add	30.23	
33 42 11 00-1184 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1176)		
33 42 11 00-1185 LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	48.64	10.45
For 1/2 Bituminous Coated And 40% Paved, Add	11.55	
33 42 11 00-1186 LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	54.79	11.41
For 1/2 Bituminous Coated And 40% Paved, Add	13.83	
33 42 11 00-1187 LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	62.74	12.36
For 1/2 Bituminous Coated And 40% Paved, Add	16.46	
33 42 11 00-1188 LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	70.73	13.31
For 1/2 Bituminous Coated And 40% Paved, Add	18.98	
33 42 11 00-1189 LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	91.64	17.11
For 1/2 Bituminous Coated And 40% Paved, Add	24.03	
33 42 11 00-1190 LF 42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	119.13	22.20
For 1/2 Bituminous Coated And 40% Paved, Add	30.61	
33 42 11 00-1191 LF 49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	137.19	26.25
For 1/2 Bituminous Coated And 40% Paved, Add	36.47	
33 42 11 00-1192 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1176)		
33 42 11 00-1193 LF 21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	66.09	11.41
For 1/2 Bituminous Coated And 40% Paved, Add	12.67	
33 42 11 00-1194 LF 24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	76.13	12.36
For 1/2 Bituminous Coated And 40% Paved, Add	15.06	
33 42 11 00-1195 LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	85.90	13.31
For 1/2 Bituminous Coated And 40% Paved, Add	17.29	
33 42 11 00-1196 LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	110.58	17.11
For 1/2 Bituminous Coated And 40% Paved, Add	21.81	
33 42 11 00-1197 LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	142.01	22.20
For 1/2 Bituminous Coated And 40% Paved, Add	27.43	
33 42 11 00-1198 LF 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	163.87	26.25
For 1/2 Bituminous Coated And 40% Paved, Add	32.51	
33 42 11 00-1199 LF 57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	191.91	30.29
For 1/2 Bituminous Coated And 40% Paved, Add	38.71	
33 42 11 00-1200 LF 64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	214.14	34.32
For 1/2 Bituminous Coated And 40% Paved, Add	42.67	



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		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION		UNIT COST		UNIT COST	
33 42 11 00-1201	10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1176)				
33 42 11 00-1202	LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	162.55	28.86	22.20	
33 42 11 00-1203	LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	187.84	34.11	26.25	
33 42 11 00-1204	LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	219.08	40.28	30.29	
33 42 11 00-1205	LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	244.87	44.59	34.32	
33 42 11 00-1206	LF 71" x 47" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	268.07	48.90	36.34	
33 42 11 00-1207	3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1175)				
33 42 11 00-1208	14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1207)				
33 42 11 00-1209	LF 60" x 46" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	206.43	64.09	34.32	
33 42 11 00-1210	LF 66" x 51" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	225.59	70.13	36.34	
33 42 11 00-1211	LF 73" x 55" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	279.29	88.08	44.41	
33 42 11 00-1212	LF 81" x 59" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	334.64	94.43	64.60	
33 42 11 00-1213	LF 87" x 63" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	362.07	101.10	70.66	
33 42 11 00-1214	LF 95" x 67" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	386.77	107.79	75.71	
33 42 11 00-1215	LF 103" x 71" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	411.41	114.46	80.76	
33 42 11 00-1216	LF 112" x 75" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	436.83	121.14	85.80	
33 42 11 00-1217	12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1207)				
33 42 11 00-1218	LF 66" x 51" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	271.21	79.69	36.34	
33 42 11 00-1219	LF 73" x 55" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	329.87	97.40	44.41	
33 42 11 00-1220	LF 81" x 59" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	389.71	104.76	64.60	
33 42 11 00-1221	LF 87" x 63" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	421.54	112.37	70.66	
33 42 11 00-1222	LF 95" x 67" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	450.74	120.03	75.71	
33 42 11 00-1223	LF 103" x 71" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	479.88	127.67	80.76	
33 42 11 00-1224	LF 112" x 75" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	509.69	135.28	85.80	
33 42 11 00-1225	LF 117" x 79" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	542.44	142.96	90.85	
33 42 11 00-1226	LF 128" x 83" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	577.42	150.59	100.94	
33 42 11 00-1227	LF 137" x 87" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	613.91	159.00	111.03	
33 42 11 00-1228	10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1207)				
33 42 11 00-1229	LF 81" x 59" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	440.85	113.39	64.60	
33 42 11 00-1230	LF 87" x 63" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	476.93	121.83	70.66	
33 42 11 00-1231	LF 95" x 67" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	510.31	130.28	75.71	
33 42 11 00-1232	LF 103" x 71" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	543.56	138.69	80.76	
33 42 11 00-1233	LF 112" x 75" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	580.42	148.13	85.80	
33 42 11 00-1234	LF 117" x 79" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	614.53	155.58	90.85	
33 42 11 00-1235	LF 128" x 83" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	653.74	164.03	100.94	
33 42 11 00-1236	LF 137" x 87" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	694.03	173.01	111.03	
33 42 11 00-1237	LF 142" x 91" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch..... For 1/2 Bituminous Coated And 40% Paved, Add	738.08	183.83	121.13	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1238		125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1175)		
33 42 11 00-1239		12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1238)		
33 42 11 00-1240	LF	81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	394.88 103.10	64.60
33 42 11 00-1241	LF	87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	426.25 110.27	70.66
33 42 11 00-1242	LF	95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	454.68 117.37	75.71
33 42 11 00-1243	LF	103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	483.08 124.45	80.76
33 42 11 00-1244	LF	112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	512.34 131.58	85.80
33 42 11 00-1245	LF	117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	544.71 138.84	90.85
33 42 11 00-1246	LF	128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	579.31 146.07	100.94
33 42 11 00-1247	LF	137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	618.20 155.11	111.03
33 42 11 00-1248		10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch (33 42 11 00-1238)		
33 42 11 00-1249	LF	81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	451.52 114.36	64.60
33 42 11 00-1250	LF	87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	487.42 122.52	70.66
33 42 11 00-1251	LF	95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	520.43 130.63	75.71
33 42 11 00-1252	LF	103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	553.57 138.79	80.76
33 42 11 00-1253	LF	112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	586.70 146.68	85.80
33 42 11 00-1254	LF	117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	624.26 155.17	90.85
33 42 11 00-1255	LF	128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	663.57 163.44	100.94
33 42 11 00-1256	LF	137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	707.11 173.35	111.03
33 42 11 00-1257	LF	142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch For 1/2 Bituminous Coated And 40% Paved, Add	747.84 182.72	121.13
33 42 11 00-1258		Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-0486)		
33 42 11 00-1259		1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1258)		
33 42 11 00-1260		18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1259)		
33 42 11 00-1261	LF	6" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	22.44 2.12	5.71
33 42 11 00-1262	LF	8" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	28.82 2.88	7.13
33 42 11 00-1263	LF	10" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	37.29 3.79	8.56
33 42 11 00-1264		16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1259)		
33 42 11 00-1265	LF	6" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	24.88 2.10	5.71
33 42 11 00-1266	LF	8" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	32.26 2.88	7.13
33 42 11 00-1267	LF	10" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	41.88 3.80	8.56
33 42 11 00-1268		2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1258)		
33 42 11 00-1269		16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1268)		
33 42 11 00-1270	LF	12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	43.28 4.17	9.98
33 42 11 00-1271	LF	15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	49.75 5.23	10.45
33 42 11 00-1272	LF	18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	56.62 6.36	11.41



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST	UNIT COST	UNIT COST
33 42 11 00-1273	LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	65.05 7.59	12.36		
33 42 11 00-1274	LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	72.60 8.61	13.31		
33 42 11 00-1275	14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1268)				
33 42 11 00-1276	LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	48.49 4.08	9.98		
33 42 11 00-1277	LF 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	56.39 5.13	10.45		
33 42 11 00-1278	LF 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	64.58 6.22	11.41		
33 42 11 00-1279	LF 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	74.28 7.39	12.36		
33 42 11 00-1280	LF 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	83.20 8.40	13.31		
33 42 11 00-1281	LF 30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	108.30 10.76	17.11		
33 42 11 00-1282	LF 36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	138.12 13.38	22.20		
33 42 11 00-1283	12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1268)				
33 42 11 00-1284	LF 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	103.44 7.97	13.31		
33 42 11 00-1285	LF 30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	133.51 10.14	17.11		
33 42 11 00-1286	LF 36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	168.40 12.49	22.20		
33 42 11 00-1287	LF 42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	194.05 14.69	26.25		
33 42 11 00-1288	LF 48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	219.45 16.63	30.29		
33 42 11 00-1289	LF 54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	258.06 19.73	34.32		
33 42 11 00-1290	10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1268)				
33 42 11 00-1291	LF 36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	200.67 12.29	22.20		
33 42 11 00-1292	LF 42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	231.64 14.42	26.25		
33 42 11 00-1293	LF 48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	262.53 16.36	30.29		
33 42 11 00-1294	LF 54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	306.53 19.20	34.32		
33 42 11 00-1295	LF 60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	336.97 21.16	36.34		
33 42 11 00-1296	3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1258)				
33 42 11 00-1297	16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1296)				
33 42 11 00-1298	LF 30" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	106.66 136.06	17.11		
33 42 11 00-1299	LF 36" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	155.01 155.66	22.20		
33 42 11 00-1300	LF 42" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	176.25 208.03	26.25		
33 42 11 00-1301	LF 48" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	208.03 236.14	30.29		
33 42 11 00-1302	LF 54" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	236.14 258.18	34.32		
33 42 11 00-1303	14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1296)				
33 42 11 00-1304	LF 30" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	119.93 155.01	17.11		
33 42 11 00-1305	LF 36" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	155.01 177.65	22.20		
33 42 11 00-1306	LF 42" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	177.65 200.25	26.25		
33 42 11 00-1307	LF 48" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	200.25 236.14	30.29		
33 42 11 00-1308	LF 54" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	236.14 258.18	34.32		
33 42 11 00-1309	LF 60" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	258.18 313.99	36.34		
33 42 11 00-1310	LF 66" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	313.99 371.74	44.41		
33 42 11 00-1311	LF 72" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	371.74 400.88	64.60		
33 42 11 00-1312	LF 78" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe For Bituminous Coated Pipe, Add	400.88 444.11	70.66		
33 42 11 00-1313	12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1296)				

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1314 LF 30" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	150.93	17.11
33 42 11 00-1315 LF 36" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	189.87	22.20
33 42 11 00-1316 LF 42" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	219.30	26.25
33 42 11 00-1317 LF 48" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	248.03	30.29
33 42 11 00-1318 LF 54" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	289.77	34.32
33 42 11 00-1319 LF 60" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	317.57	36.34
33 42 11 00-1320 LF 66" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	379.13	44.41
33 42 11 00-1321 LF 72" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	442.77	64.60
33 42 11 00-1322 LF 78" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	477.72	70.66
33 42 11 00-1323 LF 84" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	510.01	75.71
33 42 11 00-1324 LF 90" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	542.20	80.76
33 42 11 00-1325 LF 96" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	575.13	85.80
33 42 11 00-1326 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping (33 42 11 00-1296)		
33 42 11 00-1327 LF 60" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	380.04	36.34
33 42 11 00-1328 LF 66" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	445.21	44.41
33 42 11 00-1329 LF 72" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	514.78	64.60
33 42 11 00-1330 LF 78" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	555.67	70.66
33 42 11 00-1331 LF 84" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	593.79	75.71
33 42 11 00-1332 LF 90" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	631.90	80.76
33 42 11 00-1333 LF 96" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	670.72	85.80
33 42 11 00-1334 LF 102" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	712.45	90.85
33 42 11 00-1335 LF 108" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	756.42	100.94
33 42 11 00-1336 Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1259) Note: Contech ULTRA FLO. HS 20 and HS 25 vehicular loading.		
33 42 11 00-1337 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1336)		
33 42 11 00-1338 LF 18" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	74.50	11.41
33 42 11 00-1339 LF 21" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	80.14	12.36
33 42 11 00-1340 LF 24" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	96.36	13.31
33 42 11 00-1341 LF 27" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	111.25	15.21
33 42 11 00-1342 LF 30" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	124.84	17.11
33 42 11 00-1343 LF 33" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	139.09	19.01
33 42 11 00-1344 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1336)		
33 42 11 00-1345 LF 18" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	85.73	11.41
33 42 11 00-1346 LF 21" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	98.98	12.36
33 42 11 00-1347 LF 24" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	111.46	13.31
33 42 11 00-1348 LF 27" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	128.20	15.21
33 42 11 00-1349 LF 30" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	143.64	17.11
33 42 11 00-1350 LF 33" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	159.81	19.01
33 42 11 00-1351 LF 36" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	180.79	22.20
33 42 11 00-1352 LF 42" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	208.49	26.25
33 42 11 00-1353 LF 48" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	235.89	30.29
33 42 11 00-1354 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1336)		
33 42 11 00-1355 LF 30" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	180.41	17.11
33 42 11 00-1356 LF 33" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	200.16	19.01
33 42 11 00-1357 LF 36" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	224.88	22.20
33 42 11 00-1358 LF 42" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	259.97	26.25
33 42 11 00-1359 LF 48" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	294.73	30.29
33 42 11 00-1360 LF 54" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	406.64	34.32
33 42 11 00-1361 LF 60" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	447.49	36.34
33 42 11 00-1362 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-1336)		
33 42 11 00-1363 LF 48" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	414.61	30.29
33 42 11 00-1364 LF 54" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	480.55	34.32
33 42 11 00-1365 LF 60" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	529.70	36.34
33 42 11 00-1366 LF 66" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	615.63	44.41
33 42 11 00-1367 LF 72" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	699.37	64.60
33 42 11 00-1368 LF 78" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	755.09	70.66
33 42 11 00-1369 LF 84" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe	807.59	75.71
33 42 11 00-1370 Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-0486)		
33 42 11 00-1371 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1370)		



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1372	16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1371)		
33 42 11 00-1373	LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	52.12 5.24	10.45
33 42 11 00-1374	LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	58.87 6.26	11.41
33 42 11 00-1375	LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	67.61 7.45	12.36
33 42 11 00-1376	14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1371)		
33 42 11 00-1377	LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	58.78 5.22	10.45
33 42 11 00-1378	LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	65.26 6.02	11.41
33 42 11 00-1379	LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	76.84 7.39	12.36
33 42 11 00-1380	LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	86.66 8.48	13.31
33 42 11 00-1381	LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	111.76 10.73	17.11
33 42 11 00-1382	12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1371)		
33 42 11 00-1383	LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	106.93 8.09	13.31
33 42 11 00-1384	LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	137.03 10.19	17.11
33 42 11 00-1385	LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	174.34 12.72	22.20
33 42 11 00-1386	LF 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	201.88 15.05	26.25
33 42 11 00-1387	10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1371)		
33 42 11 00-1388	LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	206.57 12.28	22.20
33 42 11 00-1389	LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	239.53 14.49	26.25
33 42 11 00-1390	LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	278.38 16.97	30.29
33 42 11 00-1391	LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch..... For Bituminous Coated Pipe, Add	311.74 18.88	34.32
33 42 11 00-1392	3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1370)		
33 42 11 00-1393	14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1392)		
33 42 11 00-1394	LF 60" x 46" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	241.35	34.32
33 42 11 00-1395	LF 66" x 51" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	264.24	36.34
33 42 11 00-1396	LF 73" x 55" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	321.48	44.41
33 42 11 00-1397	12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1392)		
33 42 11 00-1398	LF 60" x 46" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	294.98	34.32
33 42 11 00-1399	LF 66" x 51" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	323.63	36.34
33 42 11 00-1400	LF 73" x 55" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	386.35	44.41
33 42 11 00-1401	LF 81" x 59" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	450.54	64.60
33 42 11 00-1402	LF 87" x 63" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	486.04	70.66
33 42 11 00-1403	LF 95" x 67" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	518.87	75.71
33 42 11 00-1404	10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch (33 42 11 00-1392)		
33 42 11 00-1405	LF 66" x 51" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	386.00	36.34
33 42 11 00-1406	LF 73" x 55" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	452.16	44.41
33 42 11 00-1407	LF 81" x 59" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	522.27	64.60
33 42 11 00-1408	LF 87" x 63" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	563.70	70.66
33 42 11 00-1409	LF 95" x 67" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	602.37	75.71
33 42 11 00-1410	LF 103" x 71" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	641.01	80.76
33 42 11 00-1411	Corrugated Steel Pipe Fittings (33 42 11 00-0486)		
33 42 11 00-1412	Fabricate 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fittings (33 42 11 00-1411)		
33 42 11 00-1413	EA Fabricate 6" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	85.45	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1414	EA	Fabricate 8" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	107.16	
33 42 11 00-1415	EA	Fabricate 10" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	128.87	
33 42 11 00-1416	EA	Fabricate 12" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)	151.95	
33 42 11 00-1417	EA	Fabricate 15" (Or 17" x 13" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	184.49	
33 42 11 00-1418	EA	Fabricate 18" (Or 21" x 15" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	217.04	
33 42 11 00-1419	EA	Fabricate 21" (Or 24" x 18" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	249.59	
33 42 11 00-1420	EA	Fabricate 24" (Or 28" x 20" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	282.14	
33 42 11 00-1421	EA	Fabricate 30" (Or 35" x 24" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	367.61	
33 42 11 00-1422	EA	Fabricate 36" (Or 42" x 29" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	438.13	
33 42 11 00-1423	EA	Fabricate 42" (Or 49" x 33" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	508.68	
33 42 11 00-1424	EA	Fabricate 48" (Or 57" x 38" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	657.90	
33 42 11 00-1425	EA	Fabricate 54" (Or 64" x 43" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	742.01	
33 42 11 00-1426	EA	Fabricate 60" (Or 71" x 47" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	828.83	
33 42 11 00-1427	EA	Fabricate 66" (Or 77" x 52" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	918.35	
33 42 11 00-1428	EA	Fabricate 72" (Or 83" x 57" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	1,119.11	
33 42 11 00-1429	EA	Fabricate 78" (Or 87" x 63" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	1,220.84	
33 42 11 00-1430	EA	Fabricate 84" (Or 95" x 67" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe).....	1,325.29	
33 42 11 00-1431	EA	Fabricate 90" (Or 103" x 71" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,626.43	
33 42 11 00-1432	EA	Fabricate 96" (Or 112" x 75" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,745.82	
33 42 11 00-1433	EA	Fabricate 102" (Or 117" x 79" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,866.54	
33 42 11 00-1434	EA	Fabricate 108" (Or 128" x 83" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	1,987.26	
33 42 11 00-1435	EA	Fabricate 114" (Or 137" x 87" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	2,106.63	
33 42 11 00-1436	EA	Fabricate 120" (Or 142" x 91" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	2,227.37	
33 42 11 00-1437	EA	Fabricate 126" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe)	2,354.65	
33 42 11 00-1438	EA	Fabricate 132" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe)	2,489.22	
33 42 11 00-1439	EA	Fabricate 138" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe)	2,631.44	
33 42 11 00-1440		Fabricate Corrugated Steel Pipe Tees Or Laterals (33 42 11 00-1411)		
Note: Fabrication charge excludes material. Use appropriate size, gauge, corrugation and type of material from pipe sections for the listed requirements of pipe needed.				
33 42 11 00-1441	EA	Fabricate 6" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	111.23	
33 42 11 00-1442	EA	Fabricate 8" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	142.43	
33 42 11 00-1443	EA	Fabricate 10" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	173.61	
33 42 11 00-1444	EA	Fabricate 12" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe).....	204.83	
33 42 11 00-1445	EA	Fabricate 15" (Or 17" x 13" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe).....	249.59	
33 42 11 00-1446	EA	Fabricate 18" (Or 21" x 15" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	295.70	
33 42 11 00-1447	EA	Fabricate 21" (Or 24" x 18" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	341.85	
33 42 11 00-1448	EA	Fabricate 24" (Or 28" x 20" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe).....	387.94	
33 42 11 00-1449	EA	Fabricate 30" (Or 35" x 24" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe).....	508.68	
33 42 11 00-1450	EA	Fabricate 36" (Or 42" x 29" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	606.36	
33 42 11 00-1451	EA	Fabricate 42" (Or 49" x 33" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	705.36	
33 42 11 00-1452	EA	Fabricate 48" (Or 57" x 38" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe).....	915.62	
33 42 11 00-1453	EA	Fabricate 54" (Or 64" x 43" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,030.92	
33 42 11 00-1454	EA	Fabricate 60" (Or 71" x 47" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,150.29	
33 42 11 00-1455	EA	Fabricate 66" (Or 77" x 52" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe).....	1,272.38	
33 42 11 00-1456	EA	Fabricate 72" (Or 83" x 57" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe).....	1,551.81	
33 42 11 00-1457	EA	Fabricate 78" (Or 87" x 63" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	1,690.20	
33 42 11 00-1458	EA	Fabricate 84" (Or 95" x 67" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe).....	1,831.26	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1459	EA	Fabricate 90" (Or 103" x 71" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 18' Of Appropriate Pipe).....	2,253.10	
33 42 11 00-1460	EA	Fabricate 96" (Or 112" x 75" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 18' Of Appropriate Pipe).....	2,414.54	
33 42 11 00-1461	EA	Fabricate 102" (Or 117" x 79" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 20' Of Appropriate Pipe).....	2,575.97	
33 42 11 00-1462	EA	Fabricate 108" (Or 128" x 83" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 20' Of Appropriate Pipe).....	2,738.73	
33 42 11 00-1463	EA	Fabricate 114" (Or 137" x 87" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 21' Of Appropriate Pipe).....	2,901.53	
33 42 11 00-1464	EA	Fabricate 120" (Or 142" x 91" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 21' Of Appropriate Pipe).....	3,062.92	
33 42 11 00-1465	EA	Fabricate 126" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 23' Of Appropriate Pipe).....	3,233.32	
33 42 11 00-1466	EA	Fabricate 132" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 24' Of Appropriate Pipe).....	3,413.20	
33 42 11 00-1467	EA	Fabricate 138" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 24' Of Appropriate Pipe).....	3,603.05	
33 42 11 00-1468 Fabricate Skew Or Bevel Ends, Corrugated Steel Pipe Fitting (33 42 11 00-1411)				
Note: Applied to pipe tasks.				
33 42 11 00-1469	EA	Fabricate 6" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	42.78	
33 42 11 00-1470	EA	Fabricate 8" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	53.82	
33 42 11 00-1471	EA	Fabricate 10" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	67.70	
33 42 11 00-1472	EA	Fabricate 12" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	82.90	
33 42 11 00-1473	EA	Fabricate 15" (Or 17" x 13" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	104.90	
33 42 11 00-1474	EA	Fabricate 18" (Or 21" x 15" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	128.44	
33 42 11 00-1475	EA	Fabricate 21" (Or 24" x 18" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	150.45	
33 42 11 00-1476	EA	Fabricate 24" (Or 28" x 20" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	174.80	
33 42 11 00-1477	EA	Fabricate 30" (Or 35" x 24" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	214.69	
33 42 11 00-1478	EA	Fabricate 36" (Or 42" x 29" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	255.98	
33 42 11 00-1479	EA	Fabricate 42" (Or 49" x 33" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	305.43	
33 42 11 00-1480	EA	Fabricate 48" (Or 57" x 38" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	375.72	
33 42 11 00-1481	EA	Fabricate 54" (Or 64" x 43" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	425.27	
33 42 11 00-1482	EA	Fabricate 60" (Or 71" x 47" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	478.92	
33 42 11 00-1483	EA	Fabricate 66" (Or 77" x 52" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	580.78	
33 42 11 00-1484	EA	Fabricate 72" (Or 83" x 57" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	644.07	
33 42 11 00-1485	EA	Fabricate 78" (Or 87" x 63" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	785.83	
33 42 11 00-1486	EA	Fabricate 84" (Or 95" x 67" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	856.04	
33 42 11 00-1487	EA	Fabricate 90" (Or 103" x 71" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	930.39	
33 42 11 00-1488	EA	Fabricate 96" (Or 112" x 75" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,003.27	
33 42 11 00-1489	EA	Fabricate 102" (Or 117" x 79" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,077.60	
33 42 11 00-1490	EA	Fabricate 108" (Or 128" x 83" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,153.27	
33 42 11 00-1491	EA	Fabricate 114" (Or 137" x 87" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,227.62	
33 42 11 00-1492	EA	Fabricate 120" (Or 142" x 91" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,301.92	
33 42 11 00-1493	EA	Fabricate 126" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,380.72	
33 42 11 00-1494	EA	Fabricate 132" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,464.27	
33 42 11 00-1495	EA	Fabricate 138" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,552.89	
33 42 11 00-1496 Coupling Bands, Corrugated Metal Pipe Fitting (33 42 11 00-1411)				
33 42 11 00-1497	EA	6" Coupling Band, Corrugated Metal Pipe Fitting.....	12.14	
		For Bituminous Coated, Add.....	3.52	
33 42 11 00-1498	EA	8" Coupling Band, Corrugated Metal Pipe Fitting.....	16.11	
		For Bituminous Coated, Add.....	4.67	
33 42 11 00-1499	EA	10" Coupling Band, Corrugated Metal Pipe Fitting.....	20.30	
		For Bituminous Coated, Add.....	5.89	
33 42 11 00-1500	EA	12" Coupling Band, Corrugated Metal Pipe Fitting.....	33.69	
		For Bituminous Coated, Add.....	9.77	
33 42 11 00-1501	EA	15" Coupling Band, Corrugated Metal Pipe Fitting.....	42.48	
		For Bituminous Coated, Add.....	12.32	
33 42 11 00-1502	EA	18" Coupling Band, Corrugated Metal Pipe Fitting.....	62.33	
		For Bituminous Coated, Add.....	18.08	
33 42 11 00-1503	EA	21" Coupling Band, Corrugated Metal Pipe Fitting.....	73.98	
		For Bituminous Coated, Add.....	21.45	
33 42 11 00-1504	EA	24" Coupling Band, Corrugated Metal Pipe Fitting.....	83.88	
		For Bituminous Coated, Add.....	24.33	
33 42 11 00-1505	EA	30" Coupling Band, Corrugated Metal Pipe Fitting.....	145.17	
		For Bituminous Coated, Add.....	42.10	
33 42 11 00-1506	EA	36" Coupling Band, Corrugated Metal Pipe Fitting.....	232.26	
		For Bituminous Coated, Add.....	55.74	
33 42 11 00-1507	EA	42" Coupling Band, Corrugated Metal Pipe Fitting.....	272.89	
		For Bituminous Coated, Add.....	65.49	
33 42 11 00-1508	EA	48" Coupling Band, Corrugated Metal Pipe Fitting.....	305.78	
		For Bituminous Coated, Add.....	73.39	
33 42 11 00-1509	EA	54" Coupling Band, Corrugated Metal Pipe Fitting.....	433.65	
		For Bituminous Coated, Add.....	104.08	
33 42 11 00-1510	EA	60" Coupling Band, Corrugated Metal Pipe Fitting.....	620.25	
		For Bituminous Coated, Add.....	111.65	
33 42 11 00-1511	EA	66" Coupling Band, Corrugated Metal Pipe Fitting.....	762.28	
		For Bituminous Coated, Add.....	137.21	
33 42 11 00-1512	EA	72" Coupling Band, Corrugated Metal Pipe Fitting.....	979.19	
		For Bituminous Coated, Add.....	137.09	
33 42 11 00-1513	EA	78" Coupling Band, Corrugated Metal Pipe Fitting.....	1,047.31	
		For Bituminous Coated, Add.....	146.62	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1514 EA 84" Coupling Band, Corrugated Metal Pipe Fitting..... <i>For Bituminous Coated, Add</i>	1,115.81 156.21	
33 42 11 00-1515 EA 90" Coupling Band, Corrugated Metal Pipe Fitting..... <i>For Bituminous Coated, Add</i>	1,183.97 165.76	
33 42 11 00-1516 EA 96" Coupling Band, Corrugated Metal Pipe Fitting..... <i>For Bituminous Coated, Add</i>	1,252.30 175.32	
33 42 11 00-1517 EA 102" Coupling Band, Corrugated Metal Pipe Fitting..... <i>For Bituminous Coated, Add</i>	1,320.80 184.91	
33 42 11 00-1518 EA 108" Coupling Band, Corrugated Metal Pipe Fitting..... <i>For Bituminous Coated, Add</i>	1,388.99 194.46	
33 42 11 00-1519 EA 114" Coupling Band, Corrugated Metal Pipe Fitting..... <i>For Bituminous Coated, Add</i>	1,645.10 197.41	
33 42 11 00-1520 EA 120" Coupling Band, Corrugated Metal Pipe Fitting..... <i>For Bituminous Coated, Add</i>	1,525.26 183.03	
33 42 11 00-1521 EA 126" Coupling Band, Corrugated Metal Pipe Fitting..... <i>For Bituminous Coated, Add</i>	1,593.24 191.19	
33 42 11 00-1522 EA 132" Coupling Band, Corrugated Metal Pipe Fitting..... <i>For Bituminous Coated, Add</i>	1,661.71 199.41	
33 42 11 00-1523 EA 138" Coupling Band, Corrugated Metal Pipe Fitting..... <i>For Bituminous Coated, Add</i>	1,730.24 207.63	

33 42 13 Stormwater Culverts (33 42)**33 42 13 13 Precast Concrete Stormwater Culverts (33 42 13)****33 42 13 13-0001 Precast Reinforced Concrete Box Culvert (33 42 13 13)**

Note: The quantity required shall be the entire length of the culvert including the length of the cut-off sections. Includes delivery, handling, hoisting into place, alignment, bracing, permanent connections, grouting of joints and caulking of joints. Excludes crane, excavation and backfill. Minimum length 6'-0". See CSI section 01 22 23 00-0844 for crane lifting equipment.

33 42 13 13-0002 LF 3' x 3' Precast Reinforced Concrete Box Culvert..... <i>For Each LF Of Cut-Off Section, Add</i>	401.24 16.05	50.47
33 42 13 13-0003 LF 4' x 2' Precast Reinforced Concrete Box Culvert..... <i>For Each LF Of Cut-Off Section, Add</i>	451.58 18.06	50.47
33 42 13 13-0004 LF 4' x 3' Precast Reinforced Concrete Box Culvert..... <i>For Each LF Of Cut-Off Section, Add</i>	532.89 21.32	50.47
33 42 13 13-0005 LF 5' x 3' Precast Reinforced Concrete Box Culvert..... <i>For Each LF Of Cut-Off Section, Add</i>	639.97 25.60	63.09
33 42 13 13-0006 LF 5' x 4' Precast Reinforced Concrete Box Culvert..... <i>For Each LF Of Cut-Off Section, Add</i>	655.46 26.22	63.09
33 42 13 13-0007 LF 5' x 5' Precast Reinforced Concrete Box Culvert..... <i>For Each LF Of Cut-Off Section, Add</i>	663.21 26.53	63.09
33 42 13 13-0008 LF 6' x 3' Precast Reinforced Concrete Box Culvert..... <i>For Each LF Of Cut-Off Section, Add</i>	683.85 27.35	65.61
33 42 13 13-0009 LF 6' x 4' Precast Reinforced Concrete Box Culvert..... <i>For Each LF Of Cut-Off Section, Add</i>	687.73 27.51	65.61
33 42 13 13-0010 LF 6' x 6' Precast Reinforced Concrete Box Culvert..... <i>For Each LF Of Cut-Off Section, Add</i>	757.42 30.30	65.61
33 42 13 13-0011 LF 7' x 4' Precast Reinforced Concrete Box Culvert..... <i>For Each LF Of Cut-Off Section, Add</i>	778.04 31.12	75.71
33 42 13 13-0012 LF 7' x 6' Precast Reinforced Concrete Box Culvert..... <i>For Each LF Of Cut-Off Section, Add</i>	833.71 33.35	102.96
33 42 13 13-0013 LF 8' x 2' Precast Reinforced Concrete Box Culvert..... <i>For Each LF Of Cut-Off Section, Add</i>	761.29 30.45	65.61
33 42 13 13-0014 LF 8' x 3' Precast Reinforced Concrete Box Culvert..... <i>For Each LF Of Cut-Off Section, Add</i>	781.91 31.28	75.71
33 42 13 13-0015 LF 8' x 4' Precast Reinforced Concrete Box Culvert..... <i>For Each LF Of Cut-Off Section, Add</i>	793.53 31.74	75.71
33 42 13 13-0016 LF 8' x 5' Precast Reinforced Concrete Box Culvert..... <i>For Each LF Of Cut-Off Section, Add</i>	958.13 38.33	100.94
33 42 13 13-0017 LF 8' x 6' Precast Reinforced Concrete Box Culvert..... <i>For Each LF Of Cut-Off Section, Add</i>	961.23 38.45	100.94
33 42 13 13-0018 LF 8' x 8' Precast Reinforced Concrete Box Culvert..... <i>For Each LF Of Cut-Off Section, Add</i>	1,064.67 42.59	126.18
33 42 13 13-0019 LF 9' x 4' Precast Reinforced Concrete Box Culvert..... <i>For Each LF Of Cut-Off Section, Add</i>	1,058.03 42.32	100.94
33 42 13 13-0020 LF 9' x 6' Precast Reinforced Concrete Box Culvert..... <i>For Each LF Of Cut-Off Section, Add</i>	1,121.21 44.85	126.18
33 42 13 13-0021 LF 10' x 3' Precast Reinforced Concrete Box Culvert..... <i>For Each LF Of Cut-Off Section, Add</i>	1,125.08 45.00	126.18
33 42 13 13-0022 LF 10' x 4' Precast Reinforced Concrete Box Culvert..... <i>For Each LF Of Cut-Off Section, Add</i>	1,365.14 54.61	126.18
33 42 13 13-0023 LF 10' x 5' Precast Reinforced Concrete Box Culvert..... <i>For Each LF Of Cut-Off Section, Add</i>	1,432.17 57.29	151.41
33 42 13 13-0024 LF 10' x 6' Precast Reinforced Concrete Box Culvert..... <i>For Each LF Of Cut-Off Section, Add</i>	1,447.66 57.91	151.41
33 42 13 13-0025 LF 10' x 7' Precast Reinforced Concrete Box Culvert..... <i>For Each LF Of Cut-Off Section, Add</i>	1,451.53 58.06	151.41
33 42 13 13-0026 LF 10' x 8' Precast Reinforced Concrete Box Culvert..... <i>For Each LF Of Cut-Off Section, Add</i>	1,456.95 58.28	151.41
33 42 13 13-0027 LF 12' x 3' Precast Reinforced Concrete Box Culvert..... <i>For Each LF Of Cut-Off Section, Add</i>	1,514.70 60.59	176.65
33 42 13 13-0028 LF 12' x 4' Precast Reinforced Concrete Box Culvert..... <i>For Each LF Of Cut-Off Section, Add</i>	1,514.70 60.59	176.65



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 13 13-0029	LF	12' x 6' Precast Reinforced Concrete Box Culvert	1,514.70	176.65
		For Each LF Of Cut-Off Section, Add	60.59	
33 42 13 13-0030	LF	12' x 8' Precast Reinforced Concrete Box Culvert	1,514.70	176.65
		For Each LF Of Cut-Off Section, Add	60.59	
33 42 13 13-0031	LF	16' x 10' Precast Reinforced Concrete Box Culvert	2,201.25	201.88
		For Each LF Of Cut-Off Section, Add	88.05	
33 42 13 13-0032	LF	24' x 10' Precast Reinforced Concrete Box Culvert	3,053.09	201.88
		For Each LF Of Cut-Off Section, Add	122.12	
33 42 13 13-0033 Precast Reinforced Concrete Box Culvert For Roadways (33 42 13 13)				
Note: AASHTO HL-93 Rated. The quantity required shall be the entire length of the culvert including the length of the cut-off sections. Includes delivery, handling, hoisting into place, alignment, bracing, permanent connections, grouting of joints and caulking of joints. Excludes crane, excavation and backfill. Minimum length 6'-0". See CSI section 01 22 23 00-0844 for crane lifting equipment.				
33 42 13 13-0034	LF	3' x 3' Precast Reinforced Concrete Box Culvert For Roadways	994.05	50.47
		For Each LF Of Cut-Off Section, Add	39.76	
33 42 13 13-0035	LF	4' x 2' Precast Reinforced Concrete Box Culvert For Roadways	1,068.43	50.47
		For Each LF Of Cut-Off Section, Add	42.74	
33 42 13 13-0036	LF	4' x 3' Precast Reinforced Concrete Box Culvert For Roadways	1,200.07	50.47
		For Each LF Of Cut-Off Section, Add	48.00	
33 42 13 13-0037	LF	5' x 3' Precast Reinforced Concrete Box Culvert For Roadways	1,357.45	63.09
		For Each LF Of Cut-Off Section, Add	54.30	
33 42 13 13-0038	LF	5' x 4' Precast Reinforced Concrete Box Culvert For Roadways	1,489.09	63.09
		For Each LF Of Cut-Off Section, Add	59.56	
33 42 13 13-0039	LF	5' x 5' Precast Reinforced Concrete Box Culvert For Roadways	1,620.73	63.09
		For Each LF Of Cut-Off Section, Add	64.83	
33 42 13 13-0040	LF	6' x 3' Precast Reinforced Concrete Box Culvert For Roadways	1,494.25	65.61
		For Each LF Of Cut-Off Section, Add	59.77	
33 42 13 13-0041	LF	6' x 4' Precast Reinforced Concrete Box Culvert For Roadways	1,625.89	65.61
		For Each LF Of Cut-Off Section, Add	65.04	
33 42 13 13-0042	LF	6' x 6' Precast Reinforced Concrete Box Culvert For Roadways	1,889.17	65.61
		For Each LF Of Cut-Off Section, Add	75.57	
33 42 13 13-0043	LF	7' x 4' Precast Reinforced Concrete Box Culvert For Roadways	1,778.15	75.71
		For Each LF Of Cut-Off Section, Add	71.13	
33 42 13 13-0044	LF	7' x 6' Precast Reinforced Concrete Box Culvert For Roadways	2,097.07	102.96
		For Each LF Of Cut-Off Section, Add	83.88	
33 42 13 13-0045	LF	8' x 2' Precast Reinforced Concrete Box Culvert For Roadways	1,625.89	65.61
		For Each LF Of Cut-Off Section, Add	65.04	
33 42 13 13-0046	LF	8' x 3' Precast Reinforced Concrete Box Culvert For Roadways	1,778.15	75.71
		For Each LF Of Cut-Off Section, Add	71.13	
33 42 13 13-0047	LF	8' x 4' Precast Reinforced Concrete Box Culvert For Roadways	1,909.79	75.71
		For Each LF Of Cut-Off Section, Add	76.39	
33 42 13 13-0048	LF	8' x 5' Precast Reinforced Concrete Box Culvert For Roadways	2,092.94	100.94
		For Each LF Of Cut-Off Section, Add	83.72	
33 42 13 13-0049	LF	8' x 6' Precast Reinforced Concrete Box Culvert For Roadways	2,224.58	100.94
		For Each LF Of Cut-Off Section, Add	88.98	
33 42 13 13-0050	LF	8' x 8' Precast Reinforced Concrete Box Culvert For Roadways	2,539.42	126.18
		For Each LF Of Cut-Off Section, Add	101.58	
33 42 13 13-0051	LF	9' x 4' Precast Reinforced Concrete Box Culvert For Roadways	2,246.12	100.94
		For Each LF Of Cut-Off Section, Add	89.84	
33 42 13 13-0052	LF	9' x 6' Precast Reinforced Concrete Box Culvert For Roadways	2,579.04	126.18
		For Each LF Of Cut-Off Section, Add	103.16	
33 42 13 13-0053	LF	10' x 3' Precast Reinforced Concrete Box Culvert For Roadways	2,550.39	126.18
		For Each LF Of Cut-Off Section, Add	102.02	
33 42 13 13-0054	LF	10' x 4' Precast Reinforced Concrete Box Culvert For Roadways	2,706.70	126.18
		For Each LF Of Cut-Off Section, Add	108.27	
33 42 13 13-0055	LF	10' x 5' Precast Reinforced Concrete Box Culvert For Roadways	2,914.55	151.41
		For Each LF Of Cut-Off Section, Add	116.58	
33 42 13 13-0056	LF	10' x 6' Precast Reinforced Concrete Box Culvert For Roadways	3,070.86	151.41
		For Each LF Of Cut-Off Section, Add	122.83	
33 42 13 13-0057	LF	10' x 7' Precast Reinforced Concrete Box Culvert For Roadways	3,227.20	151.41
		For Each LF Of Cut-Off Section, Add	129.09	
33 42 13 13-0058	LF	10' x 8' Precast Reinforced Concrete Box Culvert For Roadways	3,383.51	151.41
		For Each LF Of Cut-Off Section, Add	135.34	
33 42 13 13-0059	LF	12' x 3' Precast Reinforced Concrete Box Culvert For Roadways	3,381.87	176.65
		For Each LF Of Cut-Off Section, Add	135.27	
33 42 13 13-0060	LF	12' x 4' Precast Reinforced Concrete Box Culvert For Roadways	3,559.55	176.65
		For Each LF Of Cut-Off Section, Add	142.38	
33 42 13 13-0061	LF	12' x 6' Precast Reinforced Concrete Box Culvert For Roadways	3,914.96	176.65
		For Each LF Of Cut-Off Section, Add	156.60	
33 42 13 13-0062	LF	12' x 8' Precast Reinforced Concrete Box Culvert For Roadways	4,270.38	176.65
		For Each LF Of Cut-Off Section, Add	170.82	
33 42 13 13-0063	LF	16' x 10' Precast Reinforced Concrete Box Culvert For Roadways	5,111.74	201.88
		For Each LF Of Cut-Off Section, Add	204.47	
33 42 13 13-0064	LF	24' x 10' Precast Reinforced Concrete Box Culvert For Roadways	6,454.41	201.88
		For Each LF Of Cut-Off Section, Add	258.18	

33 42 23 Headwalls and Endwalls for Stormwater Piping (33 42)

33 42 23 00-0001 Headwalls (33 42 23)

Note: Excludes excavation and backfill. Select pipe with closest opening area for square or round culverts.

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 42 23 00-0002	Cast In Place Concrete Headwalls (33 42 23 00-0001)			
	Note: Includes concrete, forms, rebar (where required), finish and curing.			
33 42 23 00-0003	Skewed Wingwall, Cast In Place Concrete Headwall (33 42 23 00-0002)			
	Note: Sized by pipe diameter.			
33 42 23 00-0004	EA	12" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	1,596.14	674.13
33 42 23 00-0005	EA	15" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	2,007.36	719.07
33 42 23 00-0006	EA	18" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	2,629.30	941.89
33 42 23 00-0007	EA	24" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	4,137.06	1,348.27
33 42 23 00-0008	EA	30" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	5,762.09	1,797.68
33 42 23 00-0009	EA	36" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	6,861.59	2,369.55
33 42 23 00-0010	EA	42" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	9,388.21	3,268.49
33 42 23 00-0011	EA	48" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	11,167.58	3,852.14
33 42 23 00-0012	EA	54" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	13,426.03	4,689.66
33 42 23 00-0013	EA	60" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall	16,090.12	5,676.88
33 42 23 00-0014	Precast Concrete Headwalls (33 42 23 00-0001)			
33 42 23 00-0015	EA	12" Pipe, Precast Concrete Headwall	923.64	171.10
33 42 23 00-0016	EA	15" Pipe, Precast Concrete Headwall	952.15	180.61
33 42 23 00-0017	EA	18" Pipe, Precast Concrete Headwall	1,046.63	205.33
33 42 23 00-0018	EA	24" Pipe, Precast Concrete Headwall	1,158.47	218.63
33 42 23 00-0019	EA	30" Pipe, Precast Concrete Headwall	1,576.65	256.66
33 42 23 00-0020	EA	36" Pipe, Precast Concrete Headwall	1,765.61	266.17
33 42 23 00-0021	EA	42" Pipe, Precast Concrete Headwall	2,330.46	311.50
33 42 23 00-0022	EA	48" Pipe, Precast Concrete Headwall	2,578.82	343.20
33 42 23 00-0023	EA	54" Pipe, Precast Concrete Headwall	2,850.74	363.39
33 42 23 00-0024	EA	60" Pipe, Precast Concrete Headwall	3,243.48	363.39
33 42 23 00-0025	EA	72" Pipe, Precast Concrete Headwall	3,948.20	454.24
33 42 23 00-0026	EA	84" Pipe, Precast Concrete Headwall	5,639.66	545.09
33 42 23 00-0027	Precast Concrete Wingwalls (33 42 23 00-0001)			
33 42 23 00-0028	EA	18" ID Pipe (26" Hole) Precast Concrete Wingwall	5,659.55	1,798.79
	Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.			
33 42 23 00-0029	EA	24" ID Pipe (32" Hole) Precast Concrete Wingwall	5,962.37	1,998.65
	Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.			
33 42 23 00-0030	EA	30" ID Pipe (42" Hole) Precast Concrete Wingwall	6,467.08	2,331.76
	Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.			
33 42 23 00-0031	EA	33" ID Pipe (46" Hole) Precast Concrete Wingwall	6,971.80	2,664.86
	Note: 12" thick wall and base. Wingwalls are configured at zero degrees only off centerline of pipe.			
33 42 23 00-0032	EA	36" ID Pipe (50" Hole) Precast Concrete Wingwall	6,971.80	2,664.86
	Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.			
33 42 23 00-0033	EA	44" ID Pipe (58" Hole) Precast Concrete Wingwall	7,173.68	2,798.11
	Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.			
33 42 23 00-0034	EA	48" ID Pipe (62" Hole) Precast Concrete Wingwall	13,081.85	2,864.73
	Note: 12" thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.			
33 42 23 00-0035	EA	52" ID Pipe (66" Hole) Precast Concrete Wingwall	13,384.68	3,064.60
	Note: 12" thick wall and base. Wingwalls are configured at zero degrees only off centerline of pipe.			
33 42 23 00-0036	Precast Concrete Transverse Drainage Interceptor (33 42 23 00-0001)			
33 42 23 00-0037	EA	34" x 48" x 28" Precast Concrete Transverse Drainage Interceptor With Frame And Grate	4,100.68	706.59
33 42 26	End Sections for Stormwater Piping (33 42)			
33 42 26 16	Corrugated Metal End Sections for Stormwater Piping (33 42 26)			
33 42 26 16-0001	Corrugated Metal Pipe End Sections (33 42 26 16)			
33 42 26 16-0002	Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0001)			
33 42 26 16-0003	Type 1 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002)			
	Note: Used with annular corrugations, no band required. Consists of a 12 gauge steel strap with a 6" bolt and nut.			
33 42 26 16-0004	EA	12" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section	256.06	66.54
33 42 26 16-0005	EA	15" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section	296.41	71.29
33 42 26 16-0006	EA	18" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section	345.12	76.04
33 42 26 16-0007	EA	21" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section	416.78	83.17
33 42 26 16-0008	EA	24" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section	461.46	90.31
33 42 26 16-0009	Type 2 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002)			
	Note: Partial circumferential rod with two hinge type lugs used with annular corrugations. No band required.			
33 42 26 16-0010	EA	30" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	738.38	102.18
33 42 26 16-0011	EA	36" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	956.83	121.13
33 42 26 16-0012	EA	42" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	1,462.07	141.32
33 42 26 16-0013	EA	48" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	1,784.68	161.50
33 42 26 16-0014	EA	54" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	2,127.21	201.88
33 42 26 16-0015	EA	60" 10 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section	2,485.06	242.26



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR			TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION			UNIT COST		UNIT COST	
33 42 26 16-0016 Type 3 Or 5 Galvanized Corrugated Steel Pipe End Sections (33 42 26 16-0002)						
Note: Stubbed with 1' of pipe (excluded in price). Used with all pipe having annular end corrugations.						
33 42 26 16-0017	EA	12" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	267.05		66.54	
33 42 26 16-0018	EA	15" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	307.71		71.29	
33 42 26 16-0019	EA	18" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	362.49		76.04	
33 42 26 16-0020	EA	21" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	437.64		83.17	
33 42 26 16-0021	EA	24" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	485.10		90.31	
33 42 26 16-0022	EA	30" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	811.00		102.18	
33 42 26 16-0023	EA	36" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	1,045.98		121.13	
33 42 26 16-0024	EA	42" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	1,658.97		141.32	
33 42 26 16-0025	EA	48" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	2,038.78		161.50	
33 42 26 16-0026	EA	54" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	2,384.16		201.88	
33 42 26 16-0027	EA	60" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	3,298.89		242.26	
33 42 26 16-0028	EA	66" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	3,755.62		363.39	
33 42 26 16-0029	EA	72" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	4,402.65		484.52	
33 42 26 16-0030	EA	78" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	4,794.65		519.85	
33 42 26 16-0031	EA	84" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	5,196.02		555.18	
33 42 26 16-0032 Toe Plate Extensions For Galvanized Corrugated Steel Pipe End Section (33 42 26 16-0002)						
33 42 26 16-0033	EA	Toe Plate Extension For 12" Diameter Galvanized Corrugated Steel Pipe End Section	33.09			
33 42 26 16-0034	EA	Toe Plate Extension For 15" Diameter Galvanized Corrugated Steel Pipe End Section	36.82			
33 42 26 16-0035	EA	Toe Plate Extension For 18" Diameter Galvanized Corrugated Steel Pipe End Section	41.39			
33 42 26 16-0036	EA	Toe Plate Extension For 21" Diameter Galvanized Corrugated Steel Pipe End Section	45.00			
33 42 26 16-0037	EA	Toe Plate Extension For 24" Diameter Galvanized Corrugated Steel Pipe End Section	50.33			
33 42 26 16-0038	EA	Toe Plate Extension For 30" Diameter Galvanized Corrugated Steel Pipe End Section	87.52			
33 42 26 16-0039	EA	Toe Plate Extension For 36" Diameter Galvanized Corrugated Steel Pipe End Section	94.19			
33 42 26 16-0040	EA	Toe Plate Extension For 42" Diameter Galvanized Corrugated Steel Pipe End Section	128.61			
33 42 26 16-0041	EA	Toe Plate Extension For 48" Diameter Galvanized Corrugated Steel Pipe End Section	137.77			
33 42 26 16-0042	EA	Toe Plate Extension For 54" Diameter Galvanized Corrugated Steel Pipe End Section	168.10			
33 42 26 16-0043	EA	Toe Plate Extension For 60" Diameter Galvanized Corrugated Steel Pipe End Section	172.34			
33 42 26 16-0044	EA	Toe Plate Extension For 66" Diameter Galvanized Corrugated Steel Pipe End Section	184.28			
33 42 26 16-0045	EA	Toe Plate Extension For 72" Diameter Galvanized Corrugated Steel Pipe End Section	210.60			
33 42 26 16-0046	EA	Toe Plate Extension For 78" Diameter Galvanized Corrugated Steel Pipe End Section	235.48			
33 42 26 16-0047	EA	84" Diameter Galvanized Corrugated Steel Pipe End Section Toe Plate Extension.....	241.48			
33 42 26 16-0048 Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0001)						
33 42 26 16-0049 Type 1 Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0048)						
Note: Used with annular corrugations, no band required. Consists of a 12 gauge steel strap with a 6" bolt and nut.						
33 42 26 16-0050	EA	17" x 13" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	296.41		71.29	
33 42 26 16-0051	EA	21" x 15" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	345.12		76.04	
33 42 26 16-0052	EA	24" x 18" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	416.78		83.17	
33 42 26 16-0053	EA	28" x 20" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section	461.46		90.31	
33 42 26 16-0054 Type 2 Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0048)						
Note: Partial circumferential rod with two hinge type lugs used with annular corrugations. No band required.						
33 42 26 16-0055	EA	17" x 13" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	286.92		71.29	
33 42 26 16-0056	EA	21" x 15" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	327.58		76.04	
33 42 26 16-0057	EA	24" x 18" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	366.56		83.17	
33 42 26 16-0058	EA	28" x 20" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	413.50		90.31	
33 42 26 16-0059	EA	35" x 24" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	601.65		102.18	
33 42 26 16-0060	EA	42" x 29" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	873.64		121.13	
33 42 26 16-0061	EA	49" x 33" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	1,353.98		141.32	
33 42 26 16-0062	EA	57" x 38" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section	1,712.66		161.50	
33 42 26 16-0063 Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0048)						
Note: Stubbed with 1' of pipe (excluded in price). Used with all pipe having annular end corrugations.						
33 42 26 16-0064	EA	17" x 13" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	291.73		71.29	
33 42 26 16-0065	EA	21" x 15" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	338.04		76.04	
33 42 26 16-0066	EA	24" x 18" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	382.91		83.17	
33 42 26 16-0067	EA	28" x 20" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	432.89		90.31	
33 42 26 16-0068	EA	35" x 24" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	634.61		102.18	
33 42 26 16-0069	EA	42" x 29" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	918.60		121.13	
33 42 26 16-0070	EA	49" x 33" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	1,425.90		141.32	
33 42 26 16-0071	EA	57" x 38" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	1,795.43		161.50	
33 42 26 16-0072	EA	64" x 43" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	2,161.22		201.88	
33 42 26 16-0073	EA	71" x 47" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	2,838.15		242.26	
33 42 26 16-0074	EA	77" x 52" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	3,964.47		363.39	
33 42 26 16-0075	EA	83" x 57" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section	4,399.88		484.52	
33 42 26 16-0076 Toe Plate Extensions For Galvanized Corrugated Steel Pipe-Arch End Section (33 42 26 16-0048)						
33 42 26 16-0077	EA	Toe Plate Extension For 17" x 13" Galvanized Corrugated Steel Pipe-Arch End Section	36.82			
33 42 26 16-0078	EA	Toe Plate Extension For 21" x 15" Galvanized Corrugated Steel Pipe-Arch End Section	41.39			
33 42 26 16-0079	EA	Toe Plate Extension For 24" x 18" Galvanized Corrugated Steel Pipe-Arch End Section	45.00			

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0080 EA Toe Plate Extension For 28" x 20" Galvanized Corrugated Steel Pipe-Arch End Section	50.33	
33 42 26 16-0081 EA Toe Plate Extension For 35" x 24" Galvanized Corrugated Steel Pipe-Arch End Section	87.52	
33 42 26 16-0082 EA Toe Plate Extension For 42" x 29" Galvanized Corrugated Steel Pipe-Arch End Section	94.19	
33 42 26 16-0083 EA Toe Plate Extension For 49" x 33" Galvanized Corrugated Steel Pipe-Arch End Section	128.61	
33 42 26 16-0084 EA Toe Plate Extension For 57" x 38" Galvanized Corrugated Steel Pipe-Arch End Section	143.21	
33 42 26 16-0085 EA Toe Plate Extension For 64" x 43" Galvanized Corrugated Steel Pipe-Arch End Section	168.10	
33 42 26 16-0086 EA Toe Plate Extension For 71" x 47" Galvanized Corrugated Steel Pipe-Arch End Section	174.51	
33 42 26 16-0087 EA Toe Plate Extension For 77" x 52" Galvanized Corrugated Steel Pipe-Arch End Section	201.93	
33 42 26 16-0088 EA Toe Plate Extension For 83" x 57" Galvanized Corrugated Steel Pipe-Arch End Section	230.03	
33 42 26 16-0089 Corrugated Aluminum Pipe End Sections (33 42 26 16-0001)		
33 42 26 16-0090 Corrugated Aluminum Pipe End Sections (33 42 26 16-0089)		
33 42 26 16-0091 EA 12" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	383.77	66.54
33 42 26 16-0092 EA 15" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	441.81	71.29
33 42 26 16-0093 EA 18" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	523.07	76.04
33 42 26 16-0094 EA 21" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section	647.47	83.17
33 42 26 16-0095 EA 24" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	844.05	90.31
33 42 26 16-0096 EA 30" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	1,262.85	102.18
33 42 26 16-0097 EA 36" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section	1,714.74	121.13
33 42 26 16-0098 EA 36" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	2,132.56	121.13
33 42 26 16-0099 EA 42" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	2,719.09	141.32
33 42 26 16-0100 EA 48" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	3,878.24	161.50
33 42 26 16-0101 EA 54" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section	4,297.40	201.88
33 42 26 16-0102 EA 60" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	5,790.20	242.26
33 42 26 16-0103 EA 66" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	6,564.28	363.39
33 42 26 16-0104 EA 72" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	7,681.71	484.52
33 42 26 16-0105 EA 78" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	8,389.11	519.85
33 42 26 16-0106 EA 84" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	8,852.49	555.18
33 42 26 16-0107 EA 90" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	12,100.75	605.65
33 42 26 16-0108 EA 96" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	13,395.05	656.12
33 42 26 16-0109 Toe Plate Extensions For Corrugated Aluminum Pipe End Section (33 42 26 16-0089)		
33 42 26 16-0110 EA Toe Plate Extension For 12" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	60.07	
33 42 26 16-0111 EA Toe Plate Extension For 15" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	63.67	
33 42 26 16-0112 EA Toe Plate Extension For 18" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	69.06	
33 42 26 16-0113 EA Toe Plate Extension For 21" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section	77.73	
33 42 26 16-0114 EA Toe Plate Extension For 24" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	82.48	
33 42 26 16-0115 EA Toe Plate Extension For 30" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	106.85	
33 42 26 16-0116 EA Toe Plate Extension For 36" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section	127.67	
33 42 26 16-0117 EA Toe Plate Extension For 36" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	134.65	
33 42 26 16-0118 EA Toe Plate Extension For 42" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	147.69	
33 42 26 16-0119 EA Toe Plate Extension For 48" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	166.93	
33 42 26 16-0120 EA Toe Plate Extension For 54" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section	197.33	
33 42 26 16-0121 EA Toe Plate Extension For 60" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	275.43	
33 42 26 16-0122 EA Toe Plate Extension For 66" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	297.03	
33 42 26 16-0123 EA Toe Plate Extension For 72" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	377.09	
33 42 26 16-0124 EA Toe Plate Extension For 78" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	408.16	
33 42 26 16-0125 EA Toe Plate Extension For 84" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	434.94	
33 42 26 16-0126 EA Toe Plate Extension For 90" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	463.06	
33 42 26 16-0127 EA Toe Plate Extension For 96" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section	491.55	
33 42 26 16-0128 Corrugated Aluminum Pipe-Arch End Sections (33 42 26 16-0001)		
33 42 26 16-0129 Corrugated Aluminum Pipe-Arch End Sections (33 42 26 16-0128)		
33 42 26 16-0130 EA 17" x 13" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	455.32	71.29
33 42 26 16-0131 EA 21" x 15" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	555.99	76.04
33 42 26 16-0132 EA 24" x 18" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	603.81	83.17
33 42 26 16-0133 EA 28" x 20" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	651.60	90.31
33 42 26 16-0134 EA 35" x 24" 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	974.17	102.18
33 42 26 16-0135 EA 42" x 29" 14 Gauge, Corrugated Aluminum Pipe-Arch End Section	1,733.95	121.13
33 42 26 16-0136 EA 42" x 29" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	1,839.88	121.13
33 42 26 16-0137 EA 49" x 33" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	2,457.81	141.32
33 42 26 16-0138 EA 57" x 38" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	3,776.49	161.50
33 42 26 16-0139 EA 64" x 43" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section	4,325.02	201.88
33 42 26 16-0140 EA 71" x 47" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	5,229.20	242.26
33 42 26 16-0141 EA 77" x 52" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	8,757.14	363.39
33 42 26 16-0142 EA 83" x 57" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	9,198.28	484.52
33 42 26 16-0143 EA 87" x 63" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	10,014.79	519.85
33 42 26 16-0144 EA 95" x 67" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	10,453.77	555.18
33 42 26 16-0145 EA 103" x 71" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	11,394.72	605.65
33 42 26 16-0146 EA 112" x 75" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	12,072.31	656.12
33 42 26 16-0147 Toe Plate Extensions For Corrugated Aluminum Pipe-Arch End Section (33 42 26 16-0128)		
33 42 26 16-0148 EA Toe Plate Extension For 17" x 13", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	63.67	
33 42 26 16-0149 EA Toe Plate Extension For 21" x 15", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section	69.06	



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33 42 26 16-0150	EA	Toe Plate Extension For 24" x 18", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	72.85	
33 42 26 16-0151	EA	Toe Plate Extension For 28" x 20", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	79.79	
33 42 26 16-0152	EA	Toe Plate Extension For 35" x 24", 14 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	91.50	
33 42 26 16-0153	EA	Toe Plate Extension For 42" x 29", 14 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	118.85	
33 42 26 16-0154	EA	Toe Plate Extension For 42" x 29", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	129.97	
33 42 26 16-0155	EA	Toe Plate Extension For 49" x 33", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	147.69	
33 42 26 16-0156	EA	Toe Plate Extension For 57" x 38", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	166.93	
33 42 26 16-0157	EA	Toe Plate Extension For 64" x 43", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	197.33	
33 42 26 16-0158	EA	Toe Plate Extension For 71" x 47", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	250.68	
33 42 26 16-0159	EA	Toe Plate Extension For 77" x 52", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	317.75	
33 42 26 16-0160	EA	Toe Plate Extension For 83" x 57", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	428.88	
33 42 26 16-0161	EA	Toe Plate Extension For 87" x 63", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	487.01	
33 42 26 16-0162	EA	Toe Plate Extension For 95" x 67", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	510.14	
33 42 26 16-0163	EA	Toe Plate Extension For 103" x 71", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	529.05	
33 42 26 16-0164	EA	Toe Plate Extension For 112" x 75", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section	552.17	
33 42 26 16-0165		Low Slope Corrugated Steel Pipe End Sections And Accessories (33 42 26 16-0001)		
33 42 26 16-0166		4:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)		
33 42 26 16-0167	EA	15" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	585.02	71.29
33 42 26 16-0168	EA	18" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	752.61	76.04
33 42 26 16-0169	EA	21" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	921.02	83.17
33 42 26 16-0170	EA	24" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,101.37	90.31
33 42 26 16-0171	EA	30" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,165.58	102.18
33 42 26 16-0172	EA	36" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	1,522.43	121.13
33 42 26 16-0173	EA	42" 16 Gauge, 4:1 Corrugated Steel Pipe End Section	2,405.62	141.32
33 42 26 16-0174		3" Diameter Parallel Safety Bar For 4:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)		
		Note: Includes nut and bolt set.		
33 42 26 16-0175	EA	3" Diameter Parallel Safety Bar For 15" 4:1 Corrugated Steel Pipe End Section	416.22	
33 42 26 16-0176	EA	3" Diameter Parallel Safety Bar For 18" 4:1 Corrugated Steel Pipe End Section	833.04	
33 42 26 16-0177	EA	3" Diameter Parallel Safety Bar For 21" 4:1 Corrugated Steel Pipe End Section	914.16	
33 42 26 16-0178	EA	3" Diameter Parallel Safety Bar For 24" 4:1 Corrugated Steel Pipe End Section	950.49	
33 42 26 16-0179		6:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)		
33 42 26 16-0180	EA	15" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	612.45	71.29
33 42 26 16-0181	EA	18" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	801.96	76.04
33 42 26 16-0182	EA	21" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,066.24	83.17
33 42 26 16-0183	EA	24" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,252.30	90.31
33 42 26 16-0184	EA	30" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,485.97	102.18
33 42 26 16-0185	EA	36" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	1,805.22	121.13
33 42 26 16-0186	EA	42" 16 Gauge, 6:1 Corrugated Steel Pipe End Section	2,759.45	141.32
33 42 26 16-0187		3" Diameter Parallel Safety Bar For 6:1 Corrugated Steel Pipe End Sections (33 42 26 16-0165)		
		Note: Includes nut and bolt set.		
33 42 26 16-0188	EA	3" Diameter Parallel Safety Bar For 15" 6:1 Corrugated Steel Pipe End Section	809.35	
33 42 26 16-0189	EA	3" Diameter Parallel Safety Bar For 18" 6:1 Corrugated Steel Pipe End Section	859.18	
33 42 26 16-0190	EA	3" Diameter Parallel Safety Bar For 21" 6:1 Corrugated Steel Pipe End Section	945.06	
33 42 26 16-0191	EA	3" Diameter Parallel Safety Bar For 24" 6:1 Corrugated Steel Pipe End Section	993.26	
33 42 26 16-0192		Toe Plate Extensions For Low Slope Corrugated Steel Pipe End Section (33 42 26 16-0165)		
33 42 26 16-0193	EA	Toe Plate Extension For 15" Low Slope Corrugated Steel Pipe End Section.....	70.94	
33 42 26 16-0194	EA	Toe Plate Extension For 18" Low Slope Corrugated Steel Pipe End Section.....	79.60	
33 42 26 16-0195	EA	Toe Plate Extension For 21" Low Slope Corrugated Steel Pipe End Section.....	86.65	
33 42 26 16-0196	EA	Toe Plate Extension For 24" Low Slope Corrugated Steel Pipe End Section.....	96.74	
33 42 26 16-0197	EA	Toe Plate Extension For 30" Low Slope Corrugated Steel Pipe End Section.....	145.72	
33 42 26 16-0198	EA	Toe Plate Extension For 36" Low Slope Corrugated Steel Pipe End Section.....	156.40	
33 42 26 16-0199	EA	Toe Plate Extension For 42" Low Slope Corrugated Steel Pipe End Section.....	209.85	
33 42 26 16-0200		Low Slope Corrugated Steel Pipe-Arch End Sections And Accessories (33 42 26 16-0001)		
33 42 26 16-0201		4:1 Corrugated Steel Pipe-Arch End Section (33 42 26 16-0200)		
33 42 26 16-0202	EA	21" x 15" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	694.82	76.04
33 42 26 16-0203	EA	24" x 18" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	871.24	83.17
33 42 26 16-0204	EA	28" x 20" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	1,030.87	90.31
33 42 26 16-0205	EA	35" x 24" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	1,939.65	102.18
33 42 26 16-0206		3" Diameter Parallel Safety Bar For 4:1 Corrugated Steel Pipe-Arch End Sections (33 42 26 16-0200)		
		Note: Includes nut and bolt set.		

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0207 EA 3" Diameter Parallel Safety Bar For 21" x 15" 4:1 Corrugated Steel Pipe-Arch End Section.....	495.71	
33 42 26 16-0208 EA 3" Diameter Parallel Safety Bar For 24" x 18" 4:1 Corrugated Steel Pipe-Arch End Section.....	902.07	
33 42 26 16-0209 EA 3" Diameter Parallel Safety Bar For 28" x 20" 4:1 Corrugated Steel Pipe-Arch End Section.....	950.49	
33 42 26 16-0210 EA 3" Diameter Parallel Safety Bar For 35" x 24" 4:1 Corrugated Steel Pipe-Arch End Section.....	1,398.38	
33 42 26 16-0211 Toe Plate Extensions For Low Slope Corrugated Steel Pipe-Arch End Section (33 42 26 16-0200)		
33 42 26 16-0212 EA Toe Plate Extension For 21" x 15" Low Slope Corrugated Steel Pipe-Arch End Section.....	71.72	
33 42 26 16-0213 EA Toe Plate Extension For 24" x 18" Low Slope Corrugated Steel Pipe-Arch End Section.....	81.37	
33 42 26 16-0214 EA Toe Plate Extension For 28" x 20" Low Slope Corrugated Steel Pipe-Arch End Section.....	88.71	
33 42 26 16-0215 EA Toe Plate Extension For 35" x 24" Low Slope Corrugated Steel Pipe-Arch End Section.....	105.76	
33 42 26 19 Corrugated High-Density Polyethylene (HDPE) End Sections for Stormwater Piping (33 42 26)		
33 42 26 19-0001 Corrugated High Density Polyethylene (HDPE) Pipe End Sections (33 42 26 19)		
33 42 26 19-0002 EA 4" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	67.11	21.20
33 42 26 19-0003 EA 6" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	127.85	31.80
33 42 26 19-0004 EA 8" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	174.85	39.74
33 42 26 19-0005 EA 10" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	275.02	63.60
33 42 26 19-0006 EA 12" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	328.06	71.55
33 42 26 19-0007 EA 15" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	347.91	76.85
33 42 26 19-0008 EA 18" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	416.97	84.80
33 42 26 19-0009 EA 24" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	542.03	100.69
33 42 26 19-0010 EA 30" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	1,152.38	113.95
33 42 26 19-0011 EA 36" End Section, Corrugated High Density Polyethylene (HDPE) Pipe	1,410.01	127.19
33 42 26 23 Concrete End Sections for Stormwater Piping (33 42 26)		
33 42 26 23-0001 Precast Concrete End Sections (33 42 26 23)		
33 42 26 23-0002 Precast Concrete End Sections (33 42 26 23-0001)		
33 42 26 23-0003 EA 12" Diameter Pipe, Precast Concrete End Section	606.34	111.50
33 42 26 23-0004 EA 15" Diameter Pipe, Precast Concrete End Section	811.90	138.03
33 42 26 23-0005 EA 18" Diameter Pipe, Precast Concrete End Section	1,005.95	174.71
33 42 26 23-0006 EA 21" Diameter Pipe, Precast Concrete End Section	1,155.89	208.94
33 42 26 23-0007 EA 24" Diameter Pipe, Precast Concrete End Section	1,231.99	241.83
33 42 26 23-0008 EA 27" Diameter Pipe, Precast Concrete End Section	1,551.62	300.80
33 42 26 23-0009 EA 30" Diameter Pipe, Precast Concrete End Section	1,931.28	451.81
33 42 26 23-0010 EA 36" Diameter Pipe, Precast Concrete End Section	2,386.64	570.12
33 42 26 23-0011 EA 42" Diameter Pipe, Precast Concrete End Section	2,891.89	715.17
33 42 26 23-0012 EA 48" Diameter Pipe, Precast Concrete End Section	3,173.39	806.52
33 42 26 23-0013 EA 54" Diameter Pipe, Precast Concrete End Section	3,465.41	903.43
33 42 26 23-0014 EA 60" Diameter Pipe, Precast Concrete End Section	3,764.96	1,004.38
33 42 26 23-0015 EA 66" Diameter Pipe Precast Concrete End Section.....	3,724.24	810.36
33 42 26 23-0016 EA 72" Diameter Pipe Precast Concrete End Section.....	4,280.57	1,012.94
33 42 26 23-0017 EA 78" Diameter Pipe Precast Concrete End Section.....	5,100.38	1,266.17
33 42 26 23-0018 EA 84" Diameter Pipe Precast Concrete End Section.....	6,038.87	1,519.40
33 42 26 23-0019 Flared Precast Concrete End Sections (33 42 26 23-0001)		
33 42 26 23-0020 EA 12" Diameter Pipe, Flared Precast Concrete End Section	757.87	117.60
33 42 26 23-0021 EA 15" Diameter Pipe, Flared Precast Concrete End Section	913.36	146.56
33 42 26 23-0022 EA 18" Diameter Pipe, Flared Precast Concrete End Section	1,110.16	185.53
33 42 26 23-0023 EA 21" Diameter Pipe, Flared Precast Concrete End Section	1,270.26	221.87
33 42 26 23-0024 EA 24" Diameter Pipe, Flared Precast Concrete End Section	1,547.59	256.80
33 42 26 23-0025 EA 27" Diameter Pipe, Flared Precast Concrete End Section	1,883.77	410.13
33 42 26 23-0026 EA 30" Diameter Pipe, Flared Precast Concrete End Section	1,983.85	564.67
33 42 26 23-0027 EA 36" Diameter Pipe, Flared Precast Concrete End Section	2,671.66	712.65
33 42 26 23-0028 EA 42" Diameter Pipe, Flared Precast Concrete End Section	3,212.71	894.14
33 42 26 23-0029 EA 48" Diameter Pipe, Flared Precast Concrete End Section	3,483.41	1,008.41
33 42 26 23-0030 EA 54" Diameter Pipe, Flared Precast Concrete End Section	3,896.50	1,129.44
33 42 26 23-0031 EA 60" Diameter Pipe, Flared Precast Concrete End Section	4,317.76	1,254.51
33 42 26 23-0032 EA 66" Diameter Pipe, Flared Precast Concrete End Section	5,032.96	1,445.39
33 42 26 23-0033 EA 72" Diameter Pipe, Flared Precast Concrete End Section	5,857.74	1,613.25
33 42 26 23-0034 EA 78" Diameter Pipe, Flared Precast Concrete End Section	6,639.93	1,814.83
33 42 26 23-0035 EA 84" Diameter Pipe, Flared Precast Concrete End Section	7,646.11	2,016.21
33 42 26 23-0036 Elliptical Precast Concrete End Sections (33 42 26 23-0001)		
33 42 26 23-0037 EA 14" x 23" Elliptical Precast Concrete End Section	1,318.06	185.53
33 42 26 23-0038 EA 19" x 30" Elliptical Precast Concrete End Section	1,838.09	256.80
33 42 26 23-0039 EA 22" x 34" Elliptical Precast Concrete End Section	2,200.77	410.13
33 42 26 23-0040 EA 24" x 38" Elliptical Precast Concrete End Section	2,267.83	564.67
33 42 26 23-0041 EA 27" x 42" Elliptical Precast Concrete End Section	2,669.96	638.96
33 42 26 23-0042 EA 29" x 45" Elliptical Precast Concrete End Section	3,072.08	712.65
33 42 26 23-0043 EA 34" x 53" Elliptical Precast Concrete End Section	3,680.31	894.14



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 23-0044	EA	38" x 60" Elliptical Precast Concrete End Section	3,975.76	1,008.41
33 42 26 23-0045	EA	43" x 68" Elliptical Precast Concrete End Section	4,446.70	1,129.44
33 42 26 23-0046	EA	48" x 76" Elliptical Precast Concrete End Section	4,926.14	1,254.51
33 42 26 23-0047 Mitered Precast Concrete End Sections (33 42 26 23-0001)				
33 42 26 23-0048	EA	12" Round Mitered Precast Concrete End Sections	491.29	117.60
33 42 26 23-0049	EA	15" Round Mitered Precast Concrete End Sections	533.69	146.56
33 42 26 23-0050	EA	18" Round Mitered Precast Concrete End Sections	642.67	185.53
33 42 26 23-0051	EA	24" Round Mitered Precast Concrete End Sections	931.70	256.80
33 42 26 23-0052	EA	12" x 18" Elliptical Mitered Precast Concrete End Sections.....	573.17	146.56
33 42 26 23-0053	EA	14" x 23" Elliptical Mitered Precast Concrete End Sections.....	712.85	185.53
33 42 26 23-0054	EA	19" x 30" Elliptical Mitered Precast Concrete End Sections.....	1,017.23	256.80
33 42 31 Stormwater Area Drains and Inlets (33 42)				
33 42 31 00-0001 Storm Drains (33 42 31)				
33 42 31 00-0002 Catch Basins And Inlet Basins (33 42 31 00-0001)				
Note: Includes base slab, opening and grout. Excludes frame, grate, excavation and backfill.				
33 42 31 00-0003 Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0002)				
Note: Inside dimensions.				
33 42 31 00-0004 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0003)				
33 42 31 00-0005	EA	2' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	1,914.55	331.57
33 42 31 00-0006	EA	3' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,294.93	388.50
33 42 31 00-0007	EA	4' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,675.31	445.33
33 42 31 00-0008	EA	5' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,055.69	502.26
33 42 31 00-0009	EA	6' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,436.07	559.08
33 42 31 00-0010 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0003)				
33 42 31 00-0011	EA	2' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,553.69	329.58
33 42 31 00-0012	EA	3' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,137.94	439.43
33 42 31 00-0013	EA	4' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,970.21	599.23
33 42 31 00-0014	EA	5' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	4,863.56	699.10
33 42 31 00-0015	EA	6' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin	5,527.26	798.97
33 42 31 00-0016 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0003)				
33 42 31 00-0017	EA	2' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	2,750.25	359.53
33 42 31 00-0018	EA	3' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	3,814.03	499.35
33 42 31 00-0019	EA	4' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	4,618.15	649.16
33 42 31 00-0020	EA	5' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	5,331.76	749.04
33 42 31 00-0021	EA	6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin	6,753.36	958.77
33 42 31 00-0022 Cast In Place, Catch Basin (33 42 31 00-0002)				
Note: Inside span, overall depth. Includes concrete, forms, rebar (where required), finish and curing.				
33 42 31 00-0023 3' x 3', Cast In Place, Catch Basins (33 42 31 00-0022)				
33 42 31 00-0024	EA	3' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	2,397.79	400.88
33 42 31 00-0025	EA	3'-6" Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	2,539.78	426.25
33 42 31 00-0026	EA	4' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin	2,795.24	457.81
33 42 31 00-0027	EA	4'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,149.56	506.75
33 42 31 00-0028	EA	5' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,416.40	539.41
33 42 31 00-0029	EA	5'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,573.21	565.67
33 42 31 00-0030	EA	6' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,840.24	598.33
33 42 31 00-0031	EA	6'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	3,993.09	624.70
33 42 31 00-0032	EA	7' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	4,261.74	657.25
33 42 31 00-0033	EA	7'-6" Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	4,416.93	683.62
33 42 31 00-0034	EA	8' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	4,683.86	716.28
33 42 31 00-0035	VLF	>8' Deep, 3' x 3' x 8" Thick Wall, Cast In Place, Catch Basin	585.51	89.49
33 42 31 00-0036 3'-6" x 3'-6", Cast In Place, Catch Basins (33 42 31 00-0022)				
33 42 31 00-0037	EA	3' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	2,752.36	463.41
33 42 31 00-0038	EA	3'-6" Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	2,931.49	495.96
33 42 31 00-0039	EA	4' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,197.50	528.62
33 42 31 00-0040	EA	4'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,611.82	585.44
33 42 31 00-0041	EA	5' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	3,902.58	622.40
33 42 31 00-0042	EA	5'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,083.14	653.05
33 42 31 00-0043	EA	6' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,377.67	690.01
33 42 31 00-0044	EA	6'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,558.21	720.67
33 42 31 00-0045	EA	7' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,850.49	757.63
33 42 31 00-0046	EA	7'-6" Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,031.66	788.28
33 42 31 00-0047	EA	8' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,324.06	825.24
33 42 31 00-0048	VLF	>8' Deep, 3'-6" x 3'-6" x 8" Thick Wall, Cast In Place, Catch Basin	665.53	103.17

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0049 4' x 4', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0050 EA 3' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	3,131.89	530.12
33 42 31 00-0051 EA 3'-6" Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	3,321.57	563.77
33 42 31 00-0052 EA 4' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin	3,623.09	603.62
33 42 31 00-0053 EA 4'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,098.03	668.44
33 42 31 00-0054 EA 5' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,416.39	709.69
33 42 31 00-0055 EA 5'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,622.81	744.74
33 42 31 00-0056 EA 6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	4,941.18	785.98
33 42 31 00-0057 EA 6'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	5,146.98	821.04
33 42 31 00-0058 EA 7' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	5,465.33	862.29
33 42 31 00-0059 EA 7'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	5,671.77	897.34
33 42 31 00-0060 EA 8' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	5,990.13	938.69
33 42 31 00-0061 VLF >8' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin	748.73	117.35
33 42 31 00-0062 4'-6" x 4'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0063 EA 3' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,609.55	614.71
33 42 31 00-0064 EA 3'-6" Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	3,830.73	649.46
33 42 31 00-0065 EA 4' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin	4,161.60	694.40
33 42 31 00-0066 EA 4'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	4,703.38	768.11
33 42 31 00-0067 EA 5' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,053.93	814.65
33 42 31 00-0068 EA 5'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,292.65	854.90
33 42 31 00-0069 EA 6' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,643.84	901.44
33 42 31 00-0070 EA 6'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	5,882.55	941.79
33 42 31 00-0071 EA 7' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,233.12	988.33
33 42 31 00-0072 EA 7'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,470.21	1,028.57
33 42 31 00-0073 EA 8' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,823.02	1,075.11
33 42 31 00-0074 VLF >8' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin	852.93	134.43
33 42 31 00-0075 5' x 5', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0076 EA 4' Deep, 5' x 5' x 6" Thick Wall, Cast In Place, Catch Basin	4,651.40	779.69
33 42 31 00-0077 EA 4'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,254.87	861.59
33 42 31 00-0078 EA 5' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,633.43	912.62
33 42 31 00-0079 EA 5'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	5,898.53	957.37
33 42 31 00-0080 EA 6' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	6,273.22	1,008.30
33 42 31 00-0081 EA 6'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	6,539.94	1,053.05
33 42 31 00-0082 EA 7' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	6,916.87	1,104.08
33 42 31 00-0083 EA 7'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	7,179.72	1,148.82
33 42 31 00-0084 EA 8' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	7,558.29	1,199.76
33 42 31 00-0085 VLF >8' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin	1,476.91	150.01
33 42 31 00-0086 5'-6" x 5'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0087 EA 4' Deep, 5'-6" x 5'-6" x 6" Thick Wall, Cast In Place, Catch Basin	5,164.41	869.48
33 42 31 00-0088 EA 4'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,017.39	984.24
33 42 31 00-0089 EA 5' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	6,433.27	1,040.96
33 42 31 00-0090 EA 5'-6" Deep, 5'-6" x 5' x 8" Thick Wall, Cast In Place, Catch Basin	6,735.69	1,091.80
33 42 31 00-0091 EA 6' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,153.81	1,148.92
33 42 31 00-0092 EA 6'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,457.85	1,199.76
33 42 31 00-0093 EA 7' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,873.71	1,256.88
33 42 31 00-0094 EA 7'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,176.13	1,307.72
33 42 31 00-0095 EA 8' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,592.00	1,364.84
33 42 31 00-0096 VLF >8' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin	1,074.00	170.58
33 42 31 00-0097 6' x 6', Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0098 EA 4' Deep, 6' x 6' x 6" Thick Wall, Cast In Place, Catch Basin	5,705.04	963.46
33 42 31 00-0099 EA 4'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	6,644.89	1,089.40
33 42 31 00-0100 EA 5' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	7,089.36	1,151.11
33 42 31 00-0101 EA 5'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	7,419.75	1,206.55
33 42 31 00-0102 EA 6' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	7,862.60	1,268.27
33 42 31 00-0103 EA 6'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	8,195.24	1,323.69
33 42 31 00-0104 EA 7' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	8,637.47	1,385.42
33 42 31 00-0105 EA 7'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	8,968.48	1,440.84
33 42 31 00-0106 EA 8' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	9,412.96	1,502.56
33 42 31 00-0107 VLF >8' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin	1,176.67	187.86
33 42 31 00-0108 6'-6" x 6'-6", Cast In Place, Catch Basins (33 42 31 00-0022)		
33 42 31 00-0109 EA 4' Deep, 6'-6" x 6'-6" x 6" Thick Wall, Cast In Place, Catch Basin	6,269.39	1,061.93
33 42 31 00-0110 EA 4'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	7,534.30	1,230.31
33 42 31 00-0111 EA 5' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,019.61	1,298.62
33 42 31 00-0112 EA 5'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,392.98	1,360.65
33 42 31 00-0113 EA 6' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,878.28	1,428.86
33 42 31 00-0114 EA 6'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,251.66	1,490.98
33 42 31 00-0115 EA 7' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,736.96	1,559.19
33 42 31 00-0116 EA 7'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	10,110.32	1,621.21
33 42 31 00-0117 EA 8' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	10,597.88	1,689.52



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
33 42 31 00-0118	VLF	>8' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin	1,324.68		211.23
33 42 31 00-0119		7' x 7', Cast In Place, Catch Basins (33 42 31 00-0022)			
33 42 31 00-0120	EA	4' Deep, 7' x 7' x 6" Thick Wall, Cast In Place, Catch Basin	6,859.27		1,164.70
33 42 31 00-0121	EA	4'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	8,243.41		1,348.46
33 42 31 00-0122	EA	5' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	8,757.92		1,421.57
33 42 31 00-0123	EA	5'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	9,158.34		1,488.28
33 42 31 00-0124	EA	6' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	9,674.37		1,561.28
33 42 31 00-0125	EA	6'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	10,074.79		1,628.10
33 42 31 00-0126	EA	7' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	10,589.31		1,701.10
33 42 31 00-0127	EA	7'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	10,991.34		1,767.92
33 42 31 00-0128	EA	8' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	11,505.75		1,840.92
33 42 31 00-0129	VLF	>8' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin	1,438.26		230.11
33 42 31 00-0130		7'-6" x 7'-6", Cast In Place, Catch Basins (33 42 31 00-0022)			
33 42 31 00-0131	EA	4' Deep, 7'-6" x 7'-6" x 6" Thick Wall, Cast In Place, Catch Basin	7,743.19		1,307.21
33 42 31 00-0132	EA	4'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	8,981.82		1,471.40
33 42 31 00-0133	EA	5' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,523.29		1,549.20
33 42 31 00-0134	EA	5'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	9,954.52		1,620.71
33 42 31 00-0135	EA	6' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	10,497.51		1,698.51
33 42 31 00-0136	EA	6'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	10,928.76		1,770.02
33 42 31 00-0137	EA	7' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	11,470.21		1,847.82
33 42 31 00-0138	EA	7'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	11,901.46		1,919.33
33 42 31 00-0139	EA	8' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	12,444.54		1,997.12
33 42 31 00-0140	VLF	>8' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin	1,555.54		249.68
33 42 31 00-0141		8' x 8', Cast In Place, Catch Basins (33 42 31 00-0022)			
33 42 31 00-0142	EA	4' Deep, 8' x 8' x 6" Thick Wall, Cast In Place, Catch Basin	8,409.43		1,422.26
33 42 31 00-0143	EA	4'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	9,747.08		1,599.14
33 42 31 00-0144	EA	5' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	10,317.21		1,681.63
33 42 31 00-0145	EA	5'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	10,777.65		1,757.93
33 42 31 00-0146	EA	6' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	11,347.68		1,840.43
33 42 31 00-0147	EA	6'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	11,804.88		1,916.73
33 42 31 00-0148	EA	7' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	12,378.17		1,999.23
33 42 31 00-0149	EA	7'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	12,838.60		2,075.52
33 42 31 00-0150	EA	8' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	13,399.77		2,158.02
33 42 31 00-0151	VLF	>8' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin	1,676.08		269.75
33 42 31 00-0152		Precast Concrete Catch Basins (33 42 31 00-0002)			
		Note: Inside dimensions.			
33 42 31 00-0153		1'-6" Diameter Precast Catch Basins (33 42 31 00-0152)			
33 42 31 00-0154	EA	4' Deep, 1'-6" Diameter Precast Catch Basins.....	754.55		205.52
33 42 31 00-0155	EA	6' Deep, 1'-6" Diameter Precast Catch Basins.....	1,035.57		308.28
33 42 31 00-0156	EA	8' Deep, 1'-6" Diameter Precast Catch Basins.....	1,300.46		400.77
33 42 31 00-0157	EA	10' Deep, 1'-6" Diameter Precast Catch Basins.....	1,563.90		473.74
33 42 31 00-0158	EA	12' Deep, 1'-6" Diameter Precast Catch Basins.....	1,913.86		601.16
33 42 31 00-0159	EA	14' Deep, 1'-6" Diameter Precast Catch Basins.....	2,185.33		693.64
33 42 31 00-0160	VLF	Vertical Linear Foot Over 14' Deep, 1'-6" Diameter Precast Catch Basins	151.07		46.25
33 42 31 00-0161		2' Diameter Precast Catch Basins (33 42 31 00-0152)			
33 42 31 00-0162	EA	4' Deep, 2' Diameter Precast Catch Basin.....	863.37		228.65
33 42 31 00-0163	EA	6' Deep, 2' Diameter Precast Catch Basin.....	1,178.21		339.11
33 42 31 00-0164	EA	8' Deep, 2' Diameter Precast Catch Basin.....	1,474.26		447.02
33 42 31 00-0165	EA	10' Deep, 2' Diameter Precast Catch Basin.....	1,768.06		521.52
33 42 31 00-0166	EA	12' Deep, 2' Diameter Precast Catch Basin.....	2,175.04		667.96
33 42 31 00-0167	EA	14' Deep, 2' Diameter Precast Catch Basin.....	2,480.53		770.72
33 42 31 00-0168	VLF	Vertical Linear Foot Over 14' Deep, 2' Diameter Precast Catch Basin	171.46		55.49
33 42 31 00-0169		3' Diameter Precast Catch Basins (33 42 31 00-0152)			
33 42 31 00-0170	EA	4' Deep, 3' Diameter Precast Catch Basin.....	1,162.99		269.76
33 42 31 00-0171	EA	6' Deep, 3' Diameter Precast Catch Basin.....	1,565.38		398.72
33 42 31 00-0172	EA	8' Deep, 3' Diameter Precast Catch Basin.....	1,947.80		526.66
33 42 31 00-0173	EA	10' Deep, 3' Diameter Precast Catch Basin.....	2,426.07		657.68
33 42 31 00-0174	EA	12' Deep, 3' Diameter Precast Catch Basin.....	2,858.94		784.08
33 42 31 00-0175	EA	14' Deep, 3' Diameter Precast Catch Basin.....	3,273.43		912.54
33 42 31 00-0176	VLF	Vertical Linear Foot Over 14' Deep, 3' Diameter Precast Catch Basin	223.45		65.18
33 42 31 00-0177		4' Diameter Precast Catch Basins (33 42 31 00-0152)			
33 42 31 00-0178	EA	4' Deep, 4' Diameter Precast Catch Basin.....	1,425.67		300.07
33 42 31 00-0179	EA	6' Deep, 4' Diameter Precast Catch Basin.....	1,839.26		411.05
33 42 31 00-0180	EA	8' Deep, 4' Diameter Precast Catch Basin.....	2,415.70		616.58
33 42 31 00-0181	EA	10' Deep, 4' Diameter Precast Catch Basin.....	3,014.05		770.72

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0182 EA 12' Deep, 4' Diameter Precast Catch Basin	3,553.48	924.86
33 42 31 00-0183 EA 14' Deep, 4' Diameter Precast Catch Basin	4,071.33	1,079.01
33 42 31 00-0184 VLF Vertical Linear Foot Over 14' Deep, 4' Diameter Precast Catch Basin	277.18	77.08
33 42 31 00-0185 5' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0186 EA 4' Deep, 5' Diameter Precast Catch Basin	1,914.26	411.05
33 42 31 00-0187 EA 6' Deep, 5' Diameter Precast Catch Basin	2,582.37	616.58
33 42 31 00-0188 EA 8' Deep, 5' Diameter Precast Catch Basin	3,253.52	822.10
33 42 31 00-0189 EA 10' Deep, 5' Diameter Precast Catch Basin	3,965.58	1,027.62
33 42 31 00-0190 EA 12' Deep, 5' Diameter Precast Catch Basin	4,664.03	1,233.16
33 42 31 00-0191 EA 14' Deep, 5' Diameter Precast Catch Basin	5,420.75	1,438.68
33 42 31 00-0192 VLF Vertical Linear Foot Over 14' Deep, 5' Diameter Precast Catch Basin	368.66	102.76
33 42 31 00-0193 6' Diameter Precast Catch Basins (33 42 31 00-0152)		
33 42 31 00-0194 EA 4' Deep, 6' Diameter Precast Catch Basin	2,790.70	616.58
33 42 31 00-0195 EA 6' Deep, 6' Diameter Precast Catch Basin	3,720.15	924.86
33 42 31 00-0196 EA 8' Deep, 6' Diameter Precast Catch Basin	4,723.88	1,233.16
33 42 31 00-0197 EA 10' Deep, 6' Diameter Precast Catch Basin	5,884.01	1,541.44
33 42 31 00-0198 EA 12' Deep, 6' Diameter Precast Catch Basin	7,002.48	1,849.73
33 42 31 00-0199 EA 14' Deep, 6' Diameter Precast Catch Basin	8,087.33	2,158.02
33 42 31 00-0200 VLF Vertical Linear Foot Over 14' Deep, 6' Diameter Precast Catch Basin	548.88	154.14
33 42 31 00-0201 Precast Catch Basins Accessories (33 42 31 00-0152)		
33 42 31 00-0202 EA Single Or Double Wing Slab Top With Throat	1,469.85	667.96
33 42 31 00-0203 EA 4' x 4' Weir Box, Precast Catch Basin	836.61	82.21
33 42 31 00-0204 EA 4' Diameter Inlet Round To Square Adapter, Precast Catch Basin	440.02	87.35
33 42 31 00-0205 EA 3' Diameter, Up To 6" High, Precast Extension Ring	535.97	128.46
For Each Additional Inch In Height, Add	67.90	
33 42 31 00-0206 EA 4' Diameter, Up To 6" High, Precast Extension Ring	630.32	154.14
For Each Additional Inch In Height, Add	79.34	
33 42 31 00-0207 EA 5' Diameter, Up To 6" High, Precast Extension Ring	735.43	179.84
For Each Additional Inch In Height, Add	92.64	
33 42 31 00-0208 EA 6' Diameter, Up To 6" High, Precast Extension Ring	897.74	256.90
For Each Additional Inch In Height, Add	106.85	
33 42 31 00-0209 EA Adjust Existing Catch Basin Inlet Grate To Match Grade	616.53	
33 42 31 00-0210 Catch Basin Risers (33 42 31 00-0152)		
33 42 31 00-0211 EA Up To 860 Square Inch, Up To 2" Rise, Catch Basin Riser	391.81	
33 42 31 00-0212 EA >860 To 1140 Square Inch, Up To 2" Rise, Catch Basin Riser	438.30	
33 42 31 00-0213 EA >1140 Square Inch, Up To 2" Rise, Catch Basin Riser	493.61	
33 42 31 00-0214 EA Up To 860 Square Inch, >2" To 3" Rise, Catch Basin Riser	421.92	
33 42 31 00-0215 EA >860 To 1140 Square Inch, >2" To 3" Rise, Catch Basin Riser	471.54	
33 42 31 00-0216 EA >1140 Square Inch, >2" To 3" Rise, Catch Basin Riser	532.84	
33 42 31 00-0217 EA Up To 860 Square Inch, >3" To 4" Rise, Catch Basin Riser	467.15	
33 42 31 00-0218 EA >860 To 1140 Square Inch, >3" To 4" Rise, Catch Basin Riser	511.18	
33 42 31 00-0219 EA >1140 Square Inch, >3" To 4" Rise, Catch Basin Riser	572.70	
33 42 31 00-0220 Cast In Place, Storm Drain Cleanout (33 42 31 00-0002)		
Note: Inside span.		
33 42 31 00-0221 EA 6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	5,104.31	790.78
33 42 31 00-0222 EA 6' Deep, 4' x 5' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	5,799.82	902.43
33 42 31 00-0223 EA 6' Deep, 4' x 6' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	6,574.31	1,024.18
33 42 31 00-0224 EA 7' Deep, 4' x 7' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	7,894.36	1,228.62
33 42 31 00-0225 EA 8' Deep, 4' x 8' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout	9,567.73	1,483.29
33 42 31 00-0226 Precast Concrete Inlet Boxes (33 42 31 00-0002)		
Note: Inside dimensions.		
33 42 31 00-0227 Precast Concrete Inlet Boxes (33 42 31 00-0226)		
33 42 31 00-0228 24" x 24" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
Note: Yard inlet.		
33 42 31 00-0229 24" x 24" ID, Precast Concrete Inlet Boxes (33 42 31 00-0228)		
33 42 31 00-0230 EA 24" Height, 24" x 24" ID, Precast Concrete Inlet Box	692.81	71.93
33 42 31 00-0231 EA 30" Height, 24" x 24" ID, Precast Concrete Inlet Box	815.12	87.35
33 42 31 00-0232 EA 36" Height, 24" x 24" ID, Precast Concrete Inlet Box	937.44	102.76
33 42 31 00-0233 EA 42" Height, 24" x 24" ID, Precast Concrete Inlet Box	1,061.04	118.82
33 42 31 00-0234 24" x 24" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0228)		
33 42 31 00-0235 EA 6" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	178.84	
33 42 31 00-0236 EA 12" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	285.74	
33 42 31 00-0237 EA 18" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	402.93	
33 42 31 00-0238 EA 24" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	520.10	
33 42 31 00-0239 EA 30" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	637.29	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0240	EA	36" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser	754.46	
33 42 31 00-0241		22" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0242		22" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0241)		
33 42 31 00-0243	EA	36" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,432.50	201.88
33 42 31 00-0244	EA	42" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,612.83	233.43
33 42 31 00-0245	EA	48" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,793.16	264.97
33 42 31 00-0246	EA	54" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,973.65	296.59
33 42 31 00-0247	EA	60" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,154.13	328.22
33 42 31 00-0248	EA	66" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,334.62	359.83
33 42 31 00-0249	EA	72" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,515.09	391.45
33 42 31 00-0250		22" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0241)		
33 42 31 00-0251	EA	6" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	350.54	
33 42 31 00-0252	EA	12" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	557.22	
33 42 31 00-0253	EA	18" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	608.63	
33 42 31 00-0254	EA	24" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	777.26	
33 42 31 00-0255	EA	30" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	945.89	
33 42 31 00-0256	EA	36" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,107.23	
33 42 31 00-0257	EA	42" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,287.57	
33 42 31 00-0258	EA	48" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,467.89	
33 42 31 00-0259	EA	54" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,648.39	
33 42 31 00-0260	EA	60" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	1,828.86	
33 42 31 00-0261	EA	66" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	2,009.36	
33 42 31 00-0262	EA	72" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser	2,189.83	
33 42 31 00-0263		30" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0264		30" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0263)		
33 42 31 00-0265	EA	36" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,387.22	222.07
33 42 31 00-0266	EA	42" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,568.52	256.77
33 42 31 00-0267	EA	48" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,749.83	291.47
33 42 31 00-0268	EA	54" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,931.31	326.25
33 42 31 00-0269	EA	60" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,112.78	361.03
33 42 31 00-0270	EA	66" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,294.25	395.82
33 42 31 00-0271	EA	72" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,475.72	430.60
33 42 31 00-0272		30" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0263)		
33 42 31 00-0273	EA	6" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	348.55	
33 42 31 00-0274	EA	12" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	547.70	
33 42 31 00-0275	EA	18" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	600.20	
33 42 31 00-0276	EA	24" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	765.61	
33 42 31 00-0277	EA	30" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	931.02	
33 42 31 00-0278	EA	36" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	1,095.41	
33 42 31 00-0279	EA	42" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	1,273.95	
33 42 31 00-0280	EA	48" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	1,451.46	
33 42 31 00-0281	EA	54" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	1,629.99	
33 42 31 00-0282	EA	60" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	1,807.52	
33 42 31 00-0283	EA	66" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	1,986.04	
33 42 31 00-0284	EA	72" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser	2,164.58	
33 42 31 00-0285		42" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0286		42" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0285)		
33 42 31 00-0287	EA	36" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	1,645.28	242.26
33 42 31 00-0288	EA	42" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	1,858.03	281.63
33 42 31 00-0289	EA	48" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,070.79	322.01
33 42 31 00-0290	EA	54" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,282.54	361.37
33 42 31 00-0291	EA	60" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,495.29	401.75
33 42 31 00-0292	EA	66" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,708.05	441.11
33 42 31 00-0293	EA	72" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,919.80	480.48
33 42 31 00-0294		42" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0285)		
33 42 31 00-0295	EA	6" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	383.23	
33 42 31 00-0296	EA	12" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	615.05	
33 42 31 00-0297	EA	18" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	669.06	
33 42 31 00-0298	EA	24" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	856.07	
33 42 31 00-0299	EA	30" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	1,043.09	
33 42 31 00-0300	EA	36" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	1,230.11	
33 42 31 00-0301	EA	42" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	1,430.75	
33 42 31 00-0302	EA	48" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	1,631.39	
33 42 31 00-0303	EA	54" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	1,832.04	
33 42 31 00-0304	EA	60" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	2,032.68	
33 42 31 00-0305	EA	66" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser	2,233.33	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0306	EA	72" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	2,433.97	
33 42 31 00-0307		42" x 48" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0285)		
33 42 31 00-0308	EA	42" x 48" ID, Precast Concrete Inlet Box Top Slab	936.30	151.41
33 42 31 00-0309		48" x 54" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0310		48" x 54" ID, Precast Concrete Inlet Boxes (33 42 31 00-0309)		
33 42 31 00-0311	EA	36" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	2,318.61	269.18
33 42 31 00-0312	EA	42" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	2,601.05	313.42
33 42 31 00-0313	EA	48" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	2,883.51	357.66
33 42 31 00-0314	EA	54" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	3,165.63	401.75
33 42 31 00-0315	EA	60" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	3,447.75	445.83
33 42 31 00-0316	EA	66" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	3,729.88	489.92
33 42 31 00-0317	EA	72" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	4,012.00	534.01
33 42 31 00-0318		48" x 54" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0309)		
33 42 31 00-0319	EA	6" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	385.75	
33 42 31 00-0320	EA	12" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	606.62	
33 42 31 00-0321	EA	18" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	884.70	
33 42 31 00-0322	EA	24" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,162.77	
33 42 31 00-0323	EA	30" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,424.03	
33 42 31 00-0324	EA	36" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,702.09	
33 42 31 00-0325	EA	42" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,984.54	
33 42 31 00-0326	EA	48" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,267.00	
33 42 31 00-0327	EA	54" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,549.12	
33 42 31 00-0328	EA	60" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,831.24	
33 42 31 00-0329	EA	66" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	3,113.37	
33 42 31 00-0330	EA	72" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	3,395.49	
33 42 31 00-0331		48" x 54" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0309)		
33 42 31 00-0332	EA	48" x 54" ID, Precast Concrete Inlet Box Top Slab	1,017.49	164.03
33 42 31 00-0333		48" x 66" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0334		48" x 66" ID, Precast Concrete Inlet Boxes (33 42 31 00-0333)		
33 42 31 00-0335	EA	36" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	2,678.99	339.16
33 42 31 00-0336	EA	42" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	2,991.23	395.83
33 42 31 00-0337	EA	48" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	3,303.48	452.50
33 42 31 00-0338	EA	54" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	3,615.10	508.85
33 42 31 00-0339	EA	60" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	3,926.72	565.20
33 42 31 00-0340	EA	66" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	4,238.33	621.56
33 42 31 00-0341	EA	72" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	4,549.95	677.91
33 42 31 00-0342		48" x 66" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0333)		
33 42 31 00-0343	EA	6" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	425.02	
33 42 31 00-0344	EA	12" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	652.19	
33 42 31 00-0345	EA	18" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	964.16	
33 42 31 00-0346	EA	24" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	1,276.12	
33 42 31 00-0347	EA	30" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	1,559.82	
33 42 31 00-0348	EA	36" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	1,871.80	
33 42 31 00-0349	EA	42" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	2,184.04	
33 42 31 00-0350	EA	48" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	2,496.29	
33 42 31 00-0351	EA	54" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	2,807.90	
33 42 31 00-0352	EA	60" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	3,119.52	
33 42 31 00-0353	EA	66" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	3,431.13	
33 42 31 00-0354	EA	72" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	3,742.75	
33 42 31 00-0355		48" x 66" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0333)		
33 42 31 00-0356	EA	48" x 66" ID, Precast Concrete Inlet Box Top Slab	1,131.50	183.71
33 42 31 00-0357		42" x 102" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)		
33 42 31 00-0358		42" x 102" ID, Precast Concrete Inlet Boxes (33 42 31 00-0357)		
33 42 31 00-0359	EA	36" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	3,362.18	457.27
33 42 31 00-0360	EA	42" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	3,758.00	532.97
33 42 31 00-0361	EA	48" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	4,153.83	607.67
33 42 31 00-0362	EA	54" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	4,548.64	683.38
33 42 31 00-0363	EA	60" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	4,944.48	758.07
33 42 31 00-0364	EA	66" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	5,339.29	832.77
33 42 31 00-0365	EA	72" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	5,736.12	908.48



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR			TOTAL DIRECT		DEMOLITION	
CSI UOM DESCRIPTION			UNIT COST		UNIT COST	
33 42 31 00-0366 42" x 102" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0357)						
33 42 31 00-0367	EA	6" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	571.46			
33 42 31 00-0368	EA	12" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	862.32			
33 42 31 00-0369	EA	18" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	1,251.07			
33 42 31 00-0370	EA	24" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	1,639.84			
33 42 31 00-0371	EA	30" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	1,999.33			
33 42 31 00-0372	EA	36" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	2,388.09			
33 42 31 00-0373	EA	42" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	2,783.92			
33 42 31 00-0374	EA	48" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	3,179.74			
33 42 31 00-0375	EA	54" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	3,574.56			
33 42 31 00-0376	EA	60" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	3,970.39			
33 42 31 00-0377	EA	66" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	4,365.20			
33 42 31 00-0378	EA	72" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser	4,761.03			
33 42 31 00-0379 42" x 102" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0357)						
33 42 31 00-0380	EA	42" x 102" ID, Precast Concrete Inlet Box Top Slab	1,532.94		201.88	
33 42 31 00-0381 Frames And Grates For Inlets (33 42 31 00-0226)						
33 42 31 00-0382 Inlet Frames And Grates (33 42 31 00-0381)						
33 42 31 00-0383	EA	24" x 24", Heavy Duty Inlet Grate	394.07		47.53	
Note: For type A, B, D, or E inlets.						
33 42 31 00-0384	EA	47-3/4" x 21-3/4", Bicycle Safe Inlet Grate (US Foundry 6352 GRT)	510.98		47.53	
Note: For type A, B, D, or E inlets.						
33 42 31 00-0385	EA	47-3/4" x 21-3/4", Phase II Stormwater Compliant Inlet Grate (US Foundry 6352 GRT)	510.98		47.53	
Note: Includes legend: Dump No Waste "Drains To Waterways".						
33 42 31 00-0386	EA	Phase II Storm Water Compliant Grate, Echo Grate, Type "B" And "D" Inlet Covers (US Foundry 6352 GRT	510.98		47.53	
Note: Legend: Dump No Waste "Drains to Waterways"						
33 42 31 00-0387	EA	Parallel Bar Grates For Type A, B, D And E Inlets (Campbell Foundry 2617-0362)	560.49		47.53	
33 42 31 00-0388	EA	Type B Inlet Dirt Plate (US Foundry 5217 BK)	407.97		95.06	
33 42 31 00-0389	EA	Back Plate For Type B Inlets (Campbell Foundry 2548-1942)	477.29		95.06	
33 42 31 00-0390	EA	Phase II Echo-Safe Bar For Series 2500/2600 Curb Inlets (Campbell Foundry 25419EC4)	594.15		118.82	
Note: Includes cam action clamping system, stainless steel badge labeled to center of plate, steel plate welded to bar with legend: Dump No Waste "Drains to Waterways".						
33 42 31 00-0391	EA	1-1/2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT)	505.02		118.82	
33 42 31 00-0392	EA	2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT)	514.93		118.82	
33 42 31 00-0393	EA	2-1/2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT)	534.73		118.82	
33 42 31 00-0394	EA	3" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT)	554.54		118.82	
33 42 31 00-0395	EA	2" Extension Frame For Type A Inlet (General Foundries 6352 EXT)	534.73		118.82	
33 42 31 00-0396	EA	2-1/2" Extension Frame For Type A Inlet (General Foundries 6352 EXT)	554.54		118.82	
33 42 31 00-0397	EA	3" Extension Frame For Type A Inlet (General Foundries 6352 EXT)	574.34		118.82	
33 42 31 00-0398	EA	2" Extension Frame For Type E Inlet (General Foundries 6352 EXT)	831.81		118.82	
33 42 31 00-0399	EA	2-1/2" Extension Frame For Type E Inlet (General Foundries 6352 EXT)	871.43		118.82	
33 42 31 00-0400	EA	3" Extension Frame For Type E Inlet (General Foundries 6352 EXT)	911.04		118.82	
33 42 31 00-0401	EA	2", 3 Sided Extension Frame For Type A, B, D, And E Inlet (Campbell Foundry 2701)	613.95		118.82	
33 42 31 00-0402	EA	6" Type N Curb Back Piece For Type B And D Inlets (US Foundry 5218N6)	554.54		118.82	
33 42 31 00-0403	EA	8" Type N Curb Back Piece For Type B And D Inlets (US Foundry 5218N8)	554.54		118.82	
33 42 31 00-0404	EA	6" Radius Curb Back Piece For Type B And D Inlets (Campbell Foundry BSCB-6)	1,154.74		118.82	
33 42 31 00-0405	EA	8" Radius Curb Back Piece For Type B And D Inlets (Campbell Foundry BSCB-8)	1,154.74		118.82	
33 42 31 00-0406	EA	Safety Bars For Type B And D Inlets (General Foundries 5218 SB)	459.47		130.70	
33 42 31 00-0407	EA	6", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 648)	647.62		130.70	
Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.						
33 42 31 00-0408	EA	8", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 848)	647.62		130.70	
Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.						
33 42 31 00-0409	EA	10", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 1048)	716.94		130.70	
Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.						
33 42 31 00-0410	EA	Type B Inlet Frame (US Foundry 5216 FRM)	825.87		130.70	
33 42 31 00-0411	EA	Type D Inlet Frame (US Foundry 2999 FRM)	707.03		130.70	
33 42 31 00-0412	EA	Type B Inlet Frame (Campbell Foundry 2618-0202)	1,014.02		130.70	
33 42 31 00-0413	EA	Type D Inlet Frame (Campbell Foundry 2617-0002)	895.19		130.70	
33 42 31 00-0414	EA	Type A Inlet, Single Frame And Grate (US Foundry 52340)	1,152.65		190.11	
33 42 31 00-0415	EA	Type E Inlet, Single Frame And Grate (US Foundry 52342)	1,865.65		190.11	
33 42 31 00-0416	EA	Type A Inlet, Single Frame And Grate (General Foundries 52340)	1,122.95		190.11	
33 42 31 00-0417	EA	Type E Inlet, Double Frame And Grate (General Foundries 52342)	1,772.57		190.11	
33 42 31 00-0418	EA	Oversized Type A Inlet, Single Frame And Reticuline Grate (US Foundry 82340)	1,887.42		285.17	
33 42 31 00-0419	EA	Heavy Duty Rectangular Frame And Grate (Campbell Foundry 3084)	1,933.48		380.24	
33 42 31 00-0420	EA	6" Curb Piece, Type B Inlet Frame And Grate (US Foundry 52186)	2,117.14		380.24	
33 42 31 00-0421	EA	8" Curb Piece, Type B Inlet Frame And Grate (US Foundry 52198)	2,117.14		380.24	
33 42 31 00-0422	EA	6" Curb Piece, Type D Inlet Frame And Grate (US Foundry 72266)	1,869.57		380.24	
33 42 31 00-0423	EA	8" Curb Piece, Type D Inlet Frame And Grate (US Foundry 72268)	1,869.57		380.24	
33 42 31 00-0424	EA	Type B And C Inlet Frame And Grate With Type N Curb And Back Plate (Campbell Foundry GFI 52198)	2,196.36		380.24	
33 42 31 00-0425 Catch Basin Frames And Covers (33 42 31 00-0001)						
33 42 31 00-0426 Cast Iron Frames And Covers (33 42 31 00-0425)						
33 42 31 00-0427	EA	18" Diameter Cast Iron Catch Basin Frame And Cover	629.84		102.76	
33 42 31 00-0428	EA	22" Diameter Cast Iron Catch Basin Frame And Cover	790.28		116.12	
33 42 31 00-0429	EA	24" Diameter Cast Iron Catch Basin Frame And Cover	889.24		120.23	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0430 EA 26" Diameter Cast Iron Catch Basin Frame And Cover	1,000.00	139.76
33 42 31 00-0431 EA 28" Diameter Cast Iron Catch Basin Frame And Cover	1,165.44	159.29
33 42 31 00-0432 EA 32" Diameter Cast Iron Catch Basin Frame And Cover	1,833.15	166.48
33 42 31 00-0433 EA 16" x 16" Cast Iron Catch Basin Frame And Cover	1,003.42	126.40
33 42 31 00-0434 EA 18" x 24" Cast Iron Catch Basin Frame And Cover	1,300.21	145.93
33 42 31 00-0435 EA 20" x 27" Cast Iron Catch Basin Frame And Cover	1,465.02	152.09
33 42 31 00-0436 EA 23" x 23" Cast Iron Catch Basin Frame And Cover	1,387.72	152.09
33 42 31 00-0437 EA 24" x 24" Cast Iron Catch Basin Frame And Cover	1,434.80	158.25
33 42 31 00-0438 EA 26" x 26" Cast Iron Catch Basin Frame And Cover	1,538.58	164.42
33 42 31 00-0439 EA 24" x 36" Cast Iron Catch Basin Frame And Cover	1,841.09	176.75
33 42 31 00-0440 Area Yard Drain (33 42 31 00-0001)		
33 42 31 00-0441 Ductile Iron Grates (33 42 31 00-0440)		
Note: Not for traffic loading.		
33 42 31 00-0442 EA 8" Diameter Ductile Iron Grate Adapter Necks Down To 4" and 6" Diameter Pipe	169.72	39.74
33 42 31 00-0443 EA 10" Diameter Ductile Iron Grate Adapters To 4", 6", or 8" Diameter Pipe	208.23	42.40
33 42 31 00-0444 EA 12" Diameter Ductile Iron Grate Adapters To 4" Through 12" Diameter Pipe	485.70	53.00
33 42 31 00-0445 EA 15" Diameter Ductile Iron Grate Adapters To 4" Through 12" Diameter Pipe	580.34	63.60
33 42 31 00-0446 Concrete Drainage Inlet Structures (CALTRANS) (33 42 31 00-0001)		
33 42 31 00-0447 Type OS Concrete Drainage Inlet Structure (33 42 31 00-0446)		
33 42 31 00-0448 EA 3' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	3,242.33	
33 42 31 00-0449 EA 4' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	3,771.31	
33 42 31 00-0450 EA 5' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	4,264.15	
33 42 31 00-0451 EA 6' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	4,720.87	
33 42 31 00-0452 EA 7' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	5,141.47	
33 42 31 00-0453 EA 8' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness	5,525.94	
33 42 31 00-0454 EA 8' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	7,519.23	
33 42 31 00-0455 EA 10' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	8,771.62	
33 42 31 00-0456 EA 12' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	9,930.24	
33 42 31 00-0457 EA 14' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	10,997.15	
33 42 31 00-0458 EA 16' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	12,031.93	
33 42 31 00-0459 EA 18' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	12,987.82	
33 42 31 00-0460 EA 20' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness	13,864.77	
33 42 31 00-0461 Type OL-7 Concrete Drainage Inlet Structure (33 42 31 00-0446)		
33 42 31 00-0462 EA 3' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,415.09	
33 42 31 00-0463 EA 4' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,911.03	
33 42 31 00-0464 EA 5' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,370.83	
33 42 31 00-0465 EA 6' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,794.50	
33 42 31 00-0466 EA 7' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,181.03	
33 42 31 00-0467 EA 8' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,532.46	
33 42 31 00-0468 EA 8' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,466.54	
33 42 31 00-0469 EA 10' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,690.30	
33 42 31 00-0470 EA 12' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,820.31	
33 42 31 00-0471 EA 14' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,857.55	
33 42 31 00-0472 EA 16' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,868.01	
33 42 31 00-0473 EA 18' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,799.56	
33 42 31 00-0474 EA 20' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,652.16	
33 42 31 00-0475 Type OL-10 Concrete Drainage Inlet Structure (33 42 31 00-0446)		
33 42 31 00-0476 EA 3' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,495.87	
33 42 31 00-0477 EA 4' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,961.57	
33 42 31 00-0478 EA 5' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,390.11	
33 42 31 00-0479 EA 6' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,783.56	
33 42 31 00-0480 EA 7' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,139.85	
33 42 31 00-0481 EA 8' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,460.03	
33 42 31 00-0482 EA 8' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,413.84	
33 42 31 00-0483 EA 10' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,607.96	
33 42 31 00-0484 EA 12' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,710.36	
33 42 31 00-0485 EA 14' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,719.00	
33 42 31 00-0486 EA 16' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,704.09	
33 42 31 00-0487 EA 18' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,611.29	
33 42 31 00-0488 EA 20' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,438.54	
33 42 31 00-0489 Type OL-14 Concrete Drainage Inlet Structure (33 42 31 00-0446)		
33 42 31 00-0490 EA 3' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,036.56	
33 42 31 00-0491 EA 4' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,457.96	
33 42 31 00-0492 EA 5' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,843.23	
33 42 31 00-0493 EA 6' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	8,192.37	
33 42 31 00-0494 EA 7' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	8,505.40	
33 42 31 00-0495 EA 8' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness	8,782.30	
33 42 31 00-0496 EA 8' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,755.86	
33 42 31 00-0497 EA 10' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,909.34	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR				TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION				UNIT COST	UNIT COST
33 42 31 00-0498	EA	12'	Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,970.08	
33 42 31 00-0499	EA	14'	Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,938.08	
33 42 31 00-0500	EA	16'	Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,889.64	
33 42 31 00-0501	EA	18'	Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,761.26	
33 42 31 00-0502	EA	20'	Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness	16,553.95	
33 42 31 00-0503	Type OL-21 Concrete Drainage Inlet Structure (33 42 31 00-0446)				
33 42 31 00-0504	EA	3'	Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	10,163.92	
33 42 31 00-0505	EA	4'	Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	10,496.85	
33 42 31 00-0506	EA	5'	Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	10,793.67	
33 42 31 00-0507	EA	6'	Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	11,054.36	
33 42 31 00-0508	EA	7'	Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	11,277.89	
33 42 31 00-0509	EA	8'	Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness	11,466.33	
33 42 31 00-0510	EA	8'	Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,380.67	
33 42 31 00-0511	EA	10'	Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,454.23	
33 42 31 00-0512	EA	12'	Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,435.05	
33 42 31 00-0513	EA	14'	Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	16,323.12	
33 42 31 00-0514	EA	16'	Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	17,206.64	
33 42 31 00-0515	EA	18'	Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	18,010.19	
33 42 31 00-0516	EA	20'	Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness	18,734.83	
33 42 31 00-0517	Type GOL-7 Concrete Drainage Inlet Structure (33 42 31 00-0446)				
33 42 31 00-0518	EA	3'	Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,357.90	
33 42 31 00-0519	EA	4'	Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,905.71	
33 42 31 00-0520	EA	5'	Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,412.22	
33 42 31 00-0521	EA	6'	Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,877.42	
33 42 31 00-0522	EA	7'	Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,302.34	
33 42 31 00-0523	EA	8'	Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,686.98	
33 42 31 00-0524	EA	8'	Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,788.82	
33 42 31 00-0525	EA	10'	Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,152.06	
33 42 31 00-0526	EA	12'	Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,411.10	
33 42 31 00-0527	EA	14'	Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,564.89	
33 42 31 00-0528	EA	16'	Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,690.78	
33 42 31 00-0529	EA	18'	Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,727.95	
33 42 31 00-0530	EA	20'	Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness	16,675.37	
33 42 31 00-0531	Type GOL-10 Concrete Drainage Inlet Structure (33 42 31 00-0446)				
33 42 31 00-0532	EA	3'	Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,530.66	
33 42 31 00-0533	EA	4'	Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,044.40	
33 42 31 00-0534	EA	5'	Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,517.86	
33 42 31 00-0535	EA	6'	Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,951.04	
33 42 31 00-0536	EA	7'	Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	8,342.92	
33 42 31 00-0537	EA	8'	Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness	8,693.49	
33 42 31 00-0538	EA	8'	Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,795.33	
33 42 31 00-0539	EA	10'	Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,127.59	
33 42 31 00-0540	EA	12'	Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,355.63	
33 42 31 00-0541	EA	14'	Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	14,479.46	
33 42 31 00-0542	EA	16'	Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,578.92	
33 42 31 00-0543	EA	18'	Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	16,589.64	
33 42 31 00-0544	EA	20'	Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness	17,511.66	
33 42 31 00-0545	Type G-1 Concrete Drainage Inlet Structure (33 42 31 00-0446)				
33 42 31 00-0546	EA	3'	Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,184.55	
33 42 31 00-0547	EA	4'	Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,614.57	
33 42 31 00-0548	EA	5'	Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,014.70	
33 42 31 00-0549	EA	6'	Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,386.94	
33 42 31 00-0550	EA	7'	Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,731.32	
33 42 31 00-0551	EA	8'	Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,045.78	
33 42 31 00-0552	Type G-2 Concrete Drainage Inlet Structure (33 42 31 00-0446)				
33 42 31 00-0553	EA	3'	Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,012.38	
33 42 31 00-0554	EA	4'	Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,496.53	
33 42 31 00-0555	EA	5'	Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,947.62	
33 42 31 00-0556	EA	6'	Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,365.68	
33 42 31 00-0557	EA	7'	Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,750.69	
33 42 31 00-0558	EA	8'	Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,101.63	
33 42 31 00-0559	EA	8'	Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,907.43	
33 42 31 00-0560	EA	10'	Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,063.06	
33 42 31 00-0561	EA	12'	Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,133.36	
33 42 31 00-0562	EA	14'	Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,118.33	
33 42 31 00-0563	EA	16'	Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,073.70	
33 42 31 00-0564	EA	18'	Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,956.48	
33 42 31 00-0565	EA	20'	Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,765.66	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

33 42 31 00-0566	Type G-3 Concrete Drainage Inlet Structure (33 42 31 00-0446)	
33 42 31 00-0567	EA 3' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,368.52
33 42 31 00-0568	EA 4' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,792.92
33 42 31 00-0569	EA 5' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,188.43
33 42 31 00-0570	EA 6' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,556.07
33 42 31 00-0571	EA 7' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,893.80
33 42 31 00-0572	EA 8' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,203.67

33 42 31 00-0573	Type G-4_24 Concrete Drainage Inlet Structure (33 42 31 00-0446)	
33 42 31 00-0574	EA 3' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,920.40
33 42 31 00-0575	EA 4' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,407.36
33 42 31 00-0576	EA 5' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,861.27
33 42 31 00-0577	EA 6' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,281.11
33 42 31 00-0578	EA 7' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,668.94
33 42 31 00-0579	EA 8' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,022.69
33 42 31 00-0580	EA 8' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,867.95
33 42 31 00-0581	EA 10' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,025.51
33 42 31 00-0582	EA 12' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,096.71
33 42 31 00-0583	EA 14' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,082.57
33 42 31 00-0584	EA 16' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,038.65
33 42 31 00-0585	EA 18' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,922.15
33 42 31 00-0586	EA 20' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,733.07

33 42 31 00-0587	Type G-4_18 Concrete Drainage Inlet Structure (33 42 31 00-0446)	
33 42 31 00-0588	EA 3' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,012.38
33 42 31 00-0589	EA 4' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,496.53
33 42 31 00-0590	EA 5' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,947.62
33 42 31 00-0591	EA 6' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,365.68
33 42 31 00-0592	EA 7' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,750.69
33 42 31 00-0593	EA 8' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,101.63
33 42 31 00-0594	EA 8' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	6,907.43
33 42 31 00-0595	EA 10' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	8,063.06
33 42 31 00-0596	EA 12' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	9,133.36
33 42 31 00-0597	EA 14' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,118.33
33 42 31 00-0598	EA 16' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,073.70
33 42 31 00-0599	EA 18' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	11,956.48
33 42 31 00-0600	EA 20' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,765.66

33 42 31 00-0601	Type G-5 Concrete Drainage Inlet Structure (33 42 31 00-0446)	
33 42 31 00-0602	EA 3' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,345.52
33 42 31 00-0603	EA 4' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,770.37
33 42 31 00-0604	EA 5' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,167.35
33 42 31 00-0605	EA 6' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,534.42
33 42 31 00-0606	EA 7' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,873.61
33 42 31 00-0607	EA 8' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,183.92

33 42 31 00-0608	Type G-6 Concrete Drainage Inlet Structure (33 42 31 00-0446)	
33 42 31 00-0609	EA 3' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,391.51
33 42 31 00-0610	EA 4' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	2,815.46
33 42 31 00-0611	EA 5' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,210.52
33 42 31 00-0612	EA 6' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,576.70
33 42 31 00-0613	EA 7' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,913.98
33 42 31 00-0614	EA 8' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,223.40

33 42 31 00-0615	Type GT1 Concrete Drainage Inlet Structure (33 42 31 00-0446)	
33 42 31 00-0616	EA 3' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,001.17
33 42 31 00-0617	EA 4' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,665.04
33 42 31 00-0618	EA 5' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,332.68
33 42 31 00-0619	EA 6' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,857.41
33 42 31 00-0620	EA 7' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,384.90
33 42 31 00-0621	EA 8' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,867.95

33 42 31 00-0622	Type GT2 Concrete Drainage Inlet Structure (33 42 31 00-0446)	
33 42 31 00-0623	EA 3' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,852.01
33 42 31 00-0624	EA 4' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,575.07
33 42 31 00-0625	EA 5' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,247.31
33 42 31 00-0626	EA 6' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,869.78
33 42 31 00-0627	EA 7' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,441.42
33 42 31 00-0628	EA 8' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,963.28
33 42 31 00-0629	EA 8' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,657.18
33 42 31 00-0630	EA 10' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,361.07
33 42 31 00-0631	EA 12' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,937.43
33 42 31 00-0632	EA 14' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,387.30



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0633	EA	16' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	16,795.71	
33 42 31 00-0634	EA	18' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	18,095.52	
33 42 31 00-0635	EA	20' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness	19,286.72	
33 42 31 00-0636 Type GT3 Concrete Drainage Inlet Structure (33 42 31 00-0446)				
33 42 31 00-0637	EA	3' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	3,978.19	
33 42 31 00-0638	EA	4' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	4,642.49	
33 42 31 00-0639	EA	5' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,262.37	
33 42 31 00-0640	EA	6' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,836.78	
33 42 31 00-0641	EA	7' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,364.72	
33 42 31 00-0642	EA	8' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,848.22	
33 42 31 00-0643 Type GT4 Concrete Drainage Inlet Structure (33 42 31 00-0446)				
33 42 31 00-0644	EA	3' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,012.97	
33 42 31 00-0645	EA	4' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	5,730.86	
33 42 31 00-0646	EA	5' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	6,398.95	
33 42 31 00-0647	EA	6' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,016.24	
33 42 31 00-0648	EA	7' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	7,583.73	
33 42 31 00-0649	EA	8' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness	8,101.43	
33 42 31 00-0650	EA	8' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	10,676.92	
33 42 31 00-0651	EA	10' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	12,380.35	
33 42 31 00-0652	EA	12' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	13,956.27	
33 42 31 00-0653	EA	14' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	15,404.67	
33 42 31 00-0654	EA	16' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	16,812.71	
33 42 31 00-0655	EA	18' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	18,112.17	
33 42 31 00-0656	EA	20' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness	19,303.03	
33 42 31 00-0657 Type GO Concrete Drainage Inlet Structure (33 42 31 00-0446)				
33 42 31 00-0658	EA	3' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	2,851.42	
33 42 31 00-0659	EA	4' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,318.19	
33 42 31 00-0660	EA	5' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,752.81	
33 42 31 00-0661	EA	6' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,155.29	
33 42 31 00-0662	EA	7' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,525.61	
33 42 31 00-0663	EA	8' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,864.80	
33 42 31 00-0664	EA	8' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	6,690.35	
33 42 31 00-0665	EA	10' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	7,811.32	
33 42 31 00-0666	EA	12' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	8,847.92	
33 42 31 00-0667	EA	14' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	9,802.16	
33 42 31 00-0668	EA	16' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	10,729.06	
33 42 31 00-0669	EA	18' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	11,583.93	
33 42 31 00-0670	EA	20' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness	12,368.80	
33 42 31 00-0671 Type GDO Concrete Drainage Inlet Structure (33 42 31 00-0446)				
33 42 31 00-0672	EA	3' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	3,725.24	
33 42 31 00-0673	EA	4' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,338.91	
33 42 31 00-0674	EA	5' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	4,910.47	
33 42 31 00-0675	EA	6' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	5,440.96	
33 42 31 00-0676	EA	7' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	5,928.30	
33 42 31 00-0677	EA	8' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness	6,374.57	
33 42 31 00-0678	EA	8' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	8,604.68	
33 42 31 00-0679	EA	10' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	10,049.65	
33 42 31 00-0680	EA	12' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	11,387.23	
33 42 31 00-0681	EA	14' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	12,618.45	
33 42 31 00-0682	EA	16' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	13,813.05	
33 42 31 00-0683	EA	18' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	14,916.21	
33 42 31 00-0684	EA	20' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness	15,927.89	
33 42 33 Stormwater Curbside Drains and Inlets (33 42)				
33 42 33 00-0001	Curb Inlet Frames And Covers (33 42 33)			
33 42 33 00-0002	Cast Iron Curb Inlet Frames And Covers (33 42 33 00-0001)			
33 42 33 00-0003	EA	20" x 22" Cast Iron Curb Inlet Frame And Cover	1,243.99	120.23
33 42 33 00-0004	EA	22" x 24" Cast Iron Curb Inlet Frame And Cover	1,331.37	139.76
33 42 33 00-0005	EA	24" x 24" Cast Iron Curb Inlet Frame And Cover	1,382.01	139.76
33 42 33 00-0006	EA	27" x 27" Cast Iron Curb Inlet Frame And Cover	1,513.71	164.42
33 42 33 00-0007	EA	36" x 24" Cast Iron Curb Inlet Frame And Cover	1,500.78	175.73
33 42 36 Stormwater Trench Drains (33 42)				
33 42 36 00-0001	Modular Trench Drains (33 42 36)			
	See CSI section 03 31 13 00-0011 for concrete.			
33 42 36 00-0002	Modular Trench Drains (33 42 36 00-0001)			
	Note: Excludes grates. See CSI section 33 42 36 00-0118 for grates.			

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0003 4" Wide, Modular Trench Drains (33 42 36 00-0002)		
33 42 36 00-0004 4 Wide, High Density Polyethylene, Shallow Modular Trench Drains (33 42 36 00-0003)		
33 42 36 00-0005 4 Wide, High Density Polyethylene, Shallow Modular Trench Drains (33 42 36 00-0004)		
33 42 36 00-0006 LF 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain (Zurn Z844-C).....	64.70	16.44
For Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	99.22	
For Galvanized Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	198.45	
For Stainless Steel Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	317.52	
For Type 304 Stainless Steel Top Veneer Frame, Add	79.38	
For Aluminum Veneer Bronze Anodized Frame, Add	39.69	
33 42 36 00-0007 Outlet Adapters For 4 Wide, High Density Polyethylene, Shallow Modular Trench Drains (33 42 36 00-0004)		
33 42 36 00-0008 EA Closed End Cap For 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain	49.36	
33 42 36 00-0009 EA No-Hub End Outlet For 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain	59.64	
33 42 36 00-0010 EA No-Hub Bottom Outlet For 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain	59.64	
33 42 36 00-0011 6" Wide, Modular Trench Drains (33 42 36 00-0002)		
33 42 36 00-0012 6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0011)		
33 42 36 00-0013 6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0012)		
33 42 36 00-0014 LF 6" Wide, High Density Polyethylene, Modular Trench Drain	202.59	16.44
For Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	99.22	
For Galvanized Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	198.45	
For Stainless Steel Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	317.52	
For Type 304 Stainless Steel Top Veneer Frame, Add	79.38	
For Aluminum Veneer Bronze Anodized Frame, Add	39.69	
33 42 36 00-0015 Outlet Adapters For 6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0012)		
33 42 36 00-0016 EA Closed End Cap For 6" Wide, High Density Polyethylene, Modular Trench Drains	91.99	
33 42 36 00-0017 EA No-Hub End Outlet For 6" Wide, High Density Polyethylene, Modular Trench Drains	102.27	
33 42 36 00-0018 EA No-Hub Bottom Outlet For 6" Wide, High Density Polyethylene, Modular Trench Drains	102.27	
33 42 36 00-0019 Other Fittings For 6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0012)		
33 42 36 00-0020 EA Bottom Dome Strainer For 6" Wide, High Density Polyethylene, Modular Trench Drains	178.15	
33 42 36 00-0021 EA Joint Connector For 6" Wide, High Density Polyethylene, Modular Trench Drains	178.15	
33 42 36 00-0022 EA 90 Degree, 45 Degree, Tee Or Side Outlet Charge For 6" Wide, High Density Polyethylene, Modular Trench Drains	845.18	
33 42 36 00-0023 EA Cross For 6" Wide, High Density Polyethylene, Modular Trench Drains	1,638.98	
33 42 36 00-0024 EA Cutting Charge For 6" Wide, High Density Polyethylene, Modular Trench Drains	198.45	
33 42 36 00-0025 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0011)		
33 42 36 00-0026 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0025)		
33 42 36 00-0027 LF 6" Wide, Fiber Reinforced Polyester, Modular Trench Drain	295.86	16.44
For Black Acid Resistant Coated Frame, Add	75.41	
For Galvanized Top Frame Assembly, Add	75.41	
For Type 304 Stainless Steel Top Frame Assembly, Add	277.83	
33 42 36 00-0028 Outlet Adapters For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0025)		
33 42 36 00-0029 EA Closed End Cap For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	99.93	
33 42 36 00-0030 EA No-Hub End Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	110.21	
33 42 36 00-0031 EA No-Hub Bottom Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	110.21	
33 42 36 00-0032 Other Fittings For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0025)		
33 42 36 00-0033 EA Bottom Dome Strainer For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	178.15	
33 42 36 00-0034 EA Joint Connector For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	178.15	
33 42 36 00-0035 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	845.18	
33 42 36 00-0036 EA Cross For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	1,638.98	
33 42 36 00-0037 EA Cutting Charge For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains	198.45	
33 42 36 00-0038 6" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0011)		
33 42 36 00-0039 6" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0038)		



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0040	LF	6" Wide, Vinylester Fiberglass, Modular Trench Drain..... <i>For Black Acid Resistant Coated Frame, Add</i> <i>For Galvanized Top Frame Assembly, Add</i> <i>For Type 304 Stainless Steel Top Frame Assembly, Add</i>	383.18 75.41 75.41 277.83	16.44
33 42 36 00-0041		Outlet Adapters For 6" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0039)		
33 42 36 00-0042	EA	Closed End Cap For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	163.43	
33 42 36 00-0043	EA	No-Hub End Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	173.71	
33 42 36 00-0044	EA	No-Hub Bottom Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	173.71	
33 42 36 00-0045		Other Fittings For 6" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0038)		
33 42 36 00-0046	EA	Bottom Dome Strainer For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	178.15	
33 42 36 00-0047	EA	Joint Connector For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	178.15	
33 42 36 00-0048	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	845.18	
33 42 36 00-0049	EA	Cross For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	1,638.98	
33 42 36 00-0050	EA	Cutting Charge For 6" Wide, Vinylester Fiberglass, Modular Trench Drains	198.45	
33 42 36 00-0051		6" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0011)		
33 42 36 00-0052		6" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0051)		
33 42 36 00-0053	LF	6" Wide, Polymer Concrete, Modular Trench Drain	459.50	
33 42 36 00-0054		Outlet Adapters For 6" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0051)		
33 42 36 00-0055	EA	Closed End Cap For 6" Wide, Polymer Concrete, Modular Trench Drain.....	181.82	
33 42 36 00-0056	EA	No-Hub End Outlet For 6" Wide, Polymer Concrete, Modular Trench Drain.....	221.20	
33 42 36 00-0057	EA	No-Hub Bottom Outlet For 6" Wide, Polymer Concrete, Modular Trench Drain.....	68.90	
33 42 36 00-0058		12" Wide, Modular Trench Drains (33 42 36 00-0002)		
33 42 36 00-0059		12" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0058)		
33 42 36 00-0060		12" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0059)		
33 42 36 00-0061	LF	12" Wide, High Density Polyethylene, Modular Trench Drain	382.57	22.61
		<i>For Acid Resistant Coated Top Frame, Add</i>	103.19	
		<i>For Galvanized Welded Frame Assembly, Add</i>	108.16	
		<i>For Type 304 Stainless Steel Top Frame, Add</i>	619.16	
33 42 36 00-0062		Outlet Adapters For 12" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0059)		
33 42 36 00-0063	EA	End Cap For 12" Wide, High Density Polyethylene, Modular Trench Drains	190.13	
33 42 36 00-0064	EA	No-Hub End Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains	203.83	
33 42 36 00-0065	EA	No-Hub Bottom Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains	203.83	
33 42 36 00-0066		Other Fittings For 12" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0059)		
33 42 36 00-0067	EA	Bottom Dome Strainer For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	318.76	
33 42 36 00-0068	EA	Joint Connector For 12" Wide, High Density Polyethylene, Modular Trench Drains	417.98	
33 42 36 00-0069	EA	90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains	1,666.64	
33 42 36 00-0070	EA	Cross For 12" Wide, High Density Polyethylene, Modular Trench Drains.....	3,254.24	
33 42 36 00-0071	EA	Cutting Charges For 12" Wide, High Density Polyethylene, Modular Trench Drains	396.90	
33 42 36 00-0072		12" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0058)		
33 42 36 00-0073		12" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0072)		
33 42 36 00-0074	LF	12" Wide, Fiber Reinforced Polyester, Modular Trench Drain	481.80	22.61
		<i>For Acid Resistant Coated Top Frame, Add</i>	103.19	
		<i>For Galvanized Welded Frame Assembly, Add</i>	108.16	
		<i>For Type 304 Stainless Steel Top Frame, Add</i>	619.16	
33 42 36 00-0075		Outlet Adapters For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0072)		
33 42 36 00-0076	EA	End Cap For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	198.07	
33 42 36 00-0077	EA	No-Hub End Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	211.77	
33 42 36 00-0078	EA	No-Hub Bottom Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	211.77	
33 42 36 00-0079		Other Fittings For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0072)		
33 42 36 00-0080	EA	Bottom Dome Strainer For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	318.76	

33 Utilities**33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0081 EA Joint Connector For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	417.98	
33 42 36 00-0082 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	1,666.64	
33 42 36 00-0083 EA Cross For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains	3,254.24	
33 42 36 00-0084 EA Cutting Charges For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	396.90	
33 42 36 00-0085 12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0085)		
33 42 36 00-0086 12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0085)		
33 42 36 00-0087 LF 12" Wide, Vinylester Fiberglass, Modular Trench Drain.....	680.25	22.61
For Acid Resistant Coated Top Frame, Add	103.19	
For Galvanized Welded Frame Assembly, Add	108.16	
For Type 304 Stainless Steel Top Frame, Add	619.16	
33 42 36 00-0088 Outlet Adapters For 12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0085)		
33 42 36 00-0089 EA End Cap For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....	495.74	
33 42 36 00-0090 EA No-Hub End Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	509.44	
33 42 36 00-0091 EA No-Hub Bottom Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	509.44	
33 42 36 00-0092 Other Fittings For 12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0085)		
33 42 36 00-0093 EA Bottom Dome Strainer For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	318.76	
33 42 36 00-0094 EA Joint Connector For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	417.98	
33 42 36 00-0095 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	1,666.64	
33 42 36 00-0096 EA Cross For 12" Wide, Vinylester Fiberglass, Modular Trench Drains	3,254.24	
33 42 36 00-0097 EA Cutting Charges For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....	396.90	
33 42 36 00-0098 12" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0088)		
33 42 36 00-0099 12" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0088)		
33 42 36 00-0100 LF 12" Wide, Polymer Concrete, Modular Trench Drain	616.32	
33 42 36 00-0101 Outlet Adapters For 12" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0099)		
33 42 36 00-0102 EA Closed End Cap For 12" Wide, Polymer Concrete, Modular Trench Drain	309.67	
33 42 36 00-0103 EA No-Hub End Outlet For 12" Wide, Polymer Concrete, Modular Trench Drain.....	533.87	
33 42 36 00-0104 EA No-Hub Bottom Outlet For 12" Wide, Polymer Concrete, Modular Trench Drain.....	121.63	
33 42 36 00-0105 23" Wide, Modular Trench Drains (33 42 36 00-0105)		
33 42 36 00-0106 23" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0105)		
33 42 36 00-0107 23" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0105)		
33 42 36 00-0108 LF 23" Wide, High Density Polyethylene, Modular Trench Drain	536.57	30.83
For Acid Resistant Coated Frame, Add	154.79	
For Galvanized Frame Assembly, Add	154.79	
For Type 304 Stainless Steel Top Frame, Add	952.56	
33 42 36 00-0109 Outlet Adapters For 23" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0106)		
33 42 36 00-0110 EA End Cap For 23" Wide, High Density Polyethylene, Modular Trench Drains	608.08	
33 42 36 00-0111 EA No-Hub End Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	885.15	
33 42 36 00-0112 EA No-Hub Bottom Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	885.15	
33 42 36 00-0113 Other Fittings For 23" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0106)		
33 42 36 00-0114 EA Bottom Dome Strainer For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	725.41	
33 42 36 00-0115 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains	3,303.63	
33 42 36 00-0116 EA Cross For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	6,478.83	
33 42 36 00-0117 EA Cutting Charges For 23" Wide, High Density Polyethylene, Modular Trench Drains	793.80	
33 42 36 00-0118 Modular Trench Drain Grates (33 42 36 00-0118)		
33 42 36 00-0119 4" Wide, Modular Trench Drain Grates (33 42 36 00-0118)		
33 42 36 00-0120 LF 4" Wide, Polypropylene, Silver Heel Proof, Modular Trench Drain Grate (Zurn Z884-P4-HPP).....	41.87	3.08
33 42 36 00-0121 LF 4" Wide, Class C Cast Iron, Modular Trench Drain Grate (Zurn Z884-P4-CG).....	44.03	3.08
33 42 36 00-0122 LF 4" Wide, Galvanized Steel Slotted, Modular Trench Drain Grate (Zurn Z884-P4-FG)	35.39	3.08
33 42 36 00-0123 LF 4" Wide, Stainless Steel Slotted, Modular Trench Drain Grate (Zurn Z884-P4-FS).....	94.80	3.08
33 42 36 00-0124 LF 4" Wide, Galvanized Steel Perforated, Modular Trench Drain Grate (Zurn Z884-P4-FG).....	35.39	3.08
33 42 36 00-0125 LF 4" Wide, Stainless Steel Perforated, Modular Trench Drain Grate (Zurn Z884-P4-FS)	94.80	3.08



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Conveyance	33 42	

		MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0126 6" Wide, Modular Trench Drain Grates (33 42 36 00-0118)				
33 42 36 00-0127	LF	6" Wide, Galvanized Ductile Iron Cast Bar, Modular Trench Drain Grate	195.65	3.08
33 42 36 00-0128	LF	6" Wide, Ductile Iron Cast Bar, Modular Trench Drain Grate	165.69	3.08
33 42 36 00-0129	LF	6" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate	174.02	3.08
33 42 36 00-0130	LF	6" Wide, Ductile Iron Slotted, Modular Trench Drain Grate	151.99	3.08
33 42 36 00-0131	LF	6" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate	163.90	3.08
33 42 36 00-0132	LF	6" Wide, Heel Proof Ductile Iron, Modular Trench Drain Grate	165.88	3.08
33 42 36 00-0133	LF	6" Wide, Ductile Iron Longitudinal Slotted, Modular Trench Drain Grate	165.88	3.08
33 42 36 00-0134	LF	6" Wide, Galvanized Cast Iron Slotted, Modular Trench Drain Grate	163.90	3.08
33 42 36 00-0135	LF	6" Wide, Galvanized Steel Slotted, Modular Trench Drain Grate	144.06	3.08
33 42 36 00-0136	LF	6" Wide, Perforated Galvanized Steel, Modular Trench Drain Grate	144.06	3.08
33 42 36 00-0137	LF	6" Wide, Reinforced Galvanized Steel Slotted, Modular Trench Drain Grate	153.18	3.08
33 42 36 00-0138	LF	6" Wide, Reinforced Perforated Galvanized Steel, Modular Trench Drain Grate	153.18	3.08
33 42 36 00-0139	LF	6" Wide, Fabricated Stainless Steel Slotted, Modular Trench Drain Grate	199.62	3.08
33 42 36 00-0140	LF	6" Wide, Perforated Stainless Steel, Modular Trench Drain Grate	199.62	3.08
33 42 36 00-0141	LF	6" Wide, Reinforced Stainless Steel Slotted, Modular Trench Drain Grate	366.32	3.08
33 42 36 00-0142	LF	6" Wide, Reinforced Perforated Stainless Steel, Modular Trench Drain Grate	366.32	3.08
33 42 36 00-0143	LF	6" Wide, Stainless Steel Bar, Modular Trench Drain Grate	1,021.20	3.08
33 42 36 00-0144	LF	6" Wide, Heel Proof Polyethylene, Modular Trench Drain Grate	136.12	3.08
33 42 36 00-0145	LF	6" Wide, Fiberglass, Modular Trench Drain Grate	294.88	3.08
33 42 36 00-0146 12" Wide, Modular Trench Drain Grates (33 42 36 00-0118)				
33 42 36 00-0147	LF	12" Wide, Black Acid Resistant Coated Ductile Iron, Modular Trench Drain Grate	541.47	3.34
33 42 36 00-0148	LF	12" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate	517.65	3.34
33 42 36 00-0149	LF	12" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate	450.18	3.34
33 42 36 00-0150	LF	12" Wide, Heel Proof Ductile Iron, Modular Trench Drain Grate	473.00	3.34
33 42 36 00-0151	LF	12" Wide, Perforated Galvanized Steel, Modular Trench Drain Grate	408.50	3.34
33 42 36 00-0152	LF	12" Wide, Reinforced Galvanized Steel Slotted, Modular Trench Drain Grate	800.44	3.34
33 42 36 00-0153	LF	12" Wide, Reinforced Perforated Galvanized Steel, Modular Trench Drain Grate	800.44	3.34
33 42 36 00-0154	LF	12" Wide, Fabricated Stainless Steel Slotted, Modular Trench Drain Grate	1,021.71	3.34
33 42 36 00-0155	LF	12" Wide, Perforated Stainless Steel, Modular Trench Drain Grate	1,021.71	3.34
33 42 36 00-0156	LF	12" Wide, Reinforced Stainless Steel Slotted, Modular Trench Drain Grate	1,304.51	3.34
33 42 36 00-0157	LF	12" Wide, Reinforced Perforated Stainless Steel Slotted, Modular Trench Drain Grate	1,304.51	3.34
33 42 36 00-0158	LF	12" Wide, Stainless Steel Cast Bar, Modular Trench Drain Grate	1,238.02	3.34
33 42 36 00-0159	LF	12" Wide, Fiberglass, Modular Trench Drain Grate	584.13	3.34
33 42 36 00-0160 23" Wide, Modular Trench Drain Grates (33 42 36 00-0118)				
33 42 36 00-0161	LF	23" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate	855.54	3.60
33 42 36 00-0162	LF	23" Wide, Ductile Iron Slotted, Modular Trench Drain Grate	720.59	3.60
33 42 36 00-0163	LF	23" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate	1,117.49	3.60
33 42 36 00-0164	LF	23" Wide, Heel Proof Longitudinal Ductile Iron, Modular Trench Drain Grate	827.75	3.60
33 46 Stormwater Management (33 40)				
33 46 23 Modular Buried Stormwater Storage Units (33 46)				
33 46 23 00-0001 Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™) (33 46 23)				
Note: Includes chambers and end caps delivery to site. Excludes excavation and earthwork, foundation stone, embedment and perimeter stone, geotextile fabrics and cutting holes in chambers. See CSI section 31 05 16 00-0000 for aggregate (foundation, embedment and perimeter stone), 31 23 16 36-0000 for excavation and earth backfill, 31 32 19 16-0000 for woven and non-woven geotextile fabric.				
33 46 23 00-0002 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740) (33 46 23 00-0001)				
33 46 23 00-0003	EA	Up To 10, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740)	587.41	
33 46 23 00-0004	EA	>10 To 20, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740)	540.47	
33 46 23 00-0005	EA	>20 To 30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740)	507.18	
33 46 23 00-0006	EA	>30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740)	474.92	
33 46 23 00-0007	EA	Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740)	256.30	
33 46 23 00-0008	EA	>10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740)	225.92	
33 46 23 00-0009	EA	>20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740)	208.36	
33 46 23 00-0010	EA	>30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740)	191.04	
33 46 23 00-0011 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310) (33 46 23 00-0001)				
33 46 23 00-0012	EA	Up To 10, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310)	339.49	
33 46 23 00-0013	EA	>10 To 20, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310)	310.00	
33 46 23 00-0014	EA	>20 To 30, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310)	289.79	

33 Utilities**33 40 Stormwater Utilities****33 46 Stormwater Management**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 46 23 00-0015	EA	>30, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310).....	271.35	
33 46 23 00-0016	EA	Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310).....	201.31	
33 46 23 00-0017	EA	>10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310).....	178.71	
33 46 23 00-0018	EA	>20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310).....	165.05	
33 46 23 00-0019	EA	>30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310).....	152.84	
33 46 23 00-0020		90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500) (33 46 23 00-0001)		
33 46 23 00-0021	EA	Up To 10, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500).....	988.49	
33 46 23 00-0022	EA	>10 To 20, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500).....	919.32	
33 46 23 00-0023	EA	>20 To 30, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500).....	864.72	
33 46 23 00-0024	EA	>30, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500).....	815.21	
33 46 23 00-0025	EA	Up To 10, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500).....	836.17	
33 46 23 00-0026	EA	>10 To 20, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500).....	774.59	
33 46 23 00-0027	EA	>20 To 30, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500).....	727.24	
33 46 23 00-0028	EA	>30, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500).....	684.61	
33 46 23 00-0029		85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780) (33 46 23 00-0001)		
33 46 23 00-0030	EA	Up To 10, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	609.25	
33 46 23 00-0031	EA	>10 To 20, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	561.24	
33 46 23 00-0032	EA	>20 To 30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	526.90	
33 46 23 00-0033	EA	>30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	493.64	
33 46 23 00-0034	EA	Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....	256.30	
33 46 23 00-0035	EA	>10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....	221.79	
33 46 23 00-0036	EA	>20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....	208.36	
33 46 23 00-0037	EA	>30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....	191.04	
33 46 23 00-0038		52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500) (33 46 23 00-0001)		
33 46 23 00-0039	EA	Up To 10, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	1,029.12	
33 46 23 00-0040	EA	>10 To 20, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	955.73	
33 46 23 00-0041	EA	>20 To 30, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	896.96	
33 46 23 00-0042	EA	>30, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	846.48	
33 46 23 00-0043	EA	Up To 10, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	1,275.74	
33 46 23 00-0044	EA	>10 To 20, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	1,190.00	
33 46 23 00-0045	EA	>20 To 30, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	1,119.53	
33 46 23 00-0046	EA	>30, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	1,057.92	
33 46 23 00-0047		Cut Opening In Polypropylene Corrugated Wall Stormwater Collection Chambers (33 46 23 00-0001)		
33 46 23 00-0048	EA	Cut Up To 6" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap.....	68.19	
33 46 23 00-0049	EA	Cut >6" To 12" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap.....	87.20	
33 46 23 00-0050	EA	Cut >12" To 24" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap.....	113.18	
33 46 23 00-0051	EA	Cut >24" To 36" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap.....	143.05	
33 46 23 00-0052	EA	12" x 6" Inspection Port Kit Note: (2712AG6IPKIT)	716.12	
33 46 53		Stormwater Leaching Pits (33 46)		
33 46 53 00-0001		Drainage Wells (33 46 53) Note: Includes augering hole.		
33 46 53 00-0002	LF	12" Diameter Drainage Well With Corrugated Metal Liner.....	29.07	
33 46 53 00-0003	LF	18" Diameter Drainage Well With Corrugated Metal Liner.....	35.34	
33 46 53 00-0004	LF	24" Diameter Drainage Well With Corrugated Metal Liner.....	47.02	



		Utilities	33	CS
		Stormwater Utilities	33 40	
		Stormwater Management	33 46	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

33 50 Hydrocarbon Utilities ⁽³³⁾

33 52 Hydrocarbon Transmission and Distribution ^(33 50)

33 52 16 Gas Hydrocarbon Piping ^(33 52)

33 52 16 13 Steel Natural Gas Piping ^(33 52 16)

33 52 16 13-0001 Gas Distribution Lines ^(33 52 16 13)

Note: Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

33 70 Electrical Utilities ⁽³³⁾

33 71 Electrical Utility Transmission and Distribution ^(33 70)

33 71 19 Electrical Underground Ducts, Ductbanks and Manholes ^(33 71)

Note: Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

33 71 19 13 Electrical Manholes and Handholes ^(33 71 19)

33 71 19 13-0001 Electrical Handholes And Pull Boxes ^(33 71 19 13)

33 71 19 13-0002 Electrical Pull Boxes ^(33 71 19 13-0001)

See CSI section 33 05 63 00-0427 for handholes.

33 71 19 13-0003	EA	24" x 36" x 24", Electric Pull Boxes, Precast Concrete	1,974.20
33 71 19 13-0004	EA	24" x 36" x 36", Electric Pull Boxes, Precast Concrete	2,358.89
33 71 19 13-0005	EA	30" x 48" x 36", Electric Pull Boxes, Precast Concrete	2,725.95
33 71 19 13-0006	EA	36" x 72" x 24", Electric Pull Boxes, Precast Concrete	4,211.76
33 71 19 13-0007	EA	36" x 60" x 36", Electric Pull Boxes, Precast Concrete	4,486.53
33 71 19 13-0008	EA	48" x 48" x 36", Electric Pull Boxes, Precast Concrete	4,822.24
33 71 19 13-0009	EA	48" x 60" x 48", Electric Pull Boxes, Precast Concrete	5,545.94
33 71 19 13-0010	EA	18" x 28" x 34", Electric Pull Boxes, Precast Concrete	2,097.33
33 71 19 13-0011	EA	14" x 20" x 12", Electric Pull Boxes, Precast Concrete	1,088.67
33 71 19 13-0012	EA	18" x 28" x 12", Electric Pull Boxes, Precast Concrete	1,326.45
33 71 19 13-0013	EA	24" x 36" x 12", Electric Pull Boxes, Precast Concrete	1,765.50
33 71 19 13-0014	EA	24" x 3", Round Electric Pull Boxes, Precast Concrete	1,092.77
33 71 19 13-0015	EA	30" x 3", Round Electric Pull Boxes, Precast Concrete	1,154.99

33 71 19 13-0016 Electrical Pull Boxes (CALTRANS) ^(33 71 19 13-0001)

33 71 19 13-0017	EA	Body, CALTRANS 3-1/2 Precast Concrete Pull Box	132.90
33 71 19 13-0018	EA	Concrete Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	53.53
33 71 19 13-0019	EA	Bolt Down Concrete Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	82.03
33 71 19 13-0020	EA	Bolt Down Cast Iron Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	174.69
33 71 19 13-0021	EA	Bolt Down Steel Cover, CALTRANS 3-1/2 Precast Concrete Pull Box	270.77
For Galvanized Steel Cover, Add			46.51
33 71 19 13-0022	EA	12" Extension, CALTRANS 3-1/2 Precast Concrete Pull Box	67.25
33 71 19 13-0023	EA	Flat Plate Base, CALTRANS 3-1/2 Precast Concrete Pull Box	67.25
33 71 19 13-0024	EA	Body, CALTRANS 5 Precast Concrete Pull Box	189.98
33 71 19 13-0025	EA	Concrete Cover, CALTRANS 5 Precast Concrete Pull Box	71.72
33 71 19 13-0026	EA	Bolt Down Concrete Cover, CALTRANS 5 Precast Concrete Pull Box	100.22
33 71 19 13-0027	EA	Bolt Down Steel Cover, CALTRANS 5 Precast Concrete Pull Box	359.45
For Galvanized Steel Cover, Add			85.27
33 71 19 13-0028	EA	12" Extension, CALTRANS 5 Precast Concrete Pull Box	95.68
33 71 19 13-0029	EA	Flat Plate Base, CALTRANS 5 Precast Concrete Pull Box	89.42
33 71 19 13-0030	EA	Body, CALTRANS 6 Precast Concrete Pull Box	208.17
33 71 19 13-0031	EA	Concrete Cover, CALTRANS 6 Precast Concrete Pull Box	96.17
33 71 19 13-0032	EA	Bolt Down Concrete Cover, CALTRANS 6 Precast Concrete Pull Box	124.67
33 71 19 13-0033	EA	Bolt Down Steel Cover, CALTRANS 6 Precast Concrete Pull Box	493.61
For Galvanized Steel Cover, Add			119.38
33 71 19 13-0034	EA	12" Extension, CALTRANS 6 Precast Concrete Pull Box	113.87
33 71 19 13-0035	EA	Flat Plate Base, CALTRANS 6 Precast Concrete Pull Box	107.05
33 71 19 13-0036	EA	6" Return Flat Plate Base, CALTRANS 6 Precast Concrete Pull Box	147.98
33 71 19 13-0037	EA	Body, CALTRANS 3-1/2-T Precast Concrete Pull Box	299.47
33 71 19 13-0038	EA	Bolt Down Concrete Cover, CALTRANS 3-1/2-T Precast Concrete Pull Box	432.22
33 71 19 13-0039	EA	12" Extension, CALTRANS 3-1/2-T Precast Concrete Pull Box	136.61
33 71 19 13-0040	EA	Flat Plate Base, CALTRANS 3-1/2-T Precast Concrete Pull Box	125.24
33 71 19 13-0041	EA	Body, CALTRANS 5-T Precast Concrete Pull Box	390.08
33 71 19 13-0042	EA	Bolt Down Concrete Cover, CALTRANS 5-T Precast Concrete Pull Box	625.50
33 71 19 13-0043	EA	12" Extension, CALTRANS 5-T Precast Concrete Pull Box	163.89
33 71 19 13-0044	EA	Flat Plate Base, CALTRANS 5-T Precast Concrete Pull Box	159.35
33 71 19 13-0045	EA	Body, CALTRANS 6-T Precast Concrete Pull Box	556.08
33 71 19 13-0046	EA	Bolt Down Concrete Cover, CALTRANS 6-T Precast Concrete Pull Box	875.63
33 71 19 13-0047	EA	12" Extension, CALTRANS 6-T Precast Concrete Pull Box	277.59
33 71 19 13-0048	EA	Flat Plate Base, CALTRANS 6-T Precast Concrete Pull Box	216.19

33 71 19 13-0049 Precast Concrete Box Extensions ^(33 71 19 13-0001)

33 71 19 13-0050	EA	14" x 20" x 12", Precast Concrete Extension	263.76
33 71 19 13-0051	EA	18" x 28" x 12", Precast Concrete Extension	330.97

33 Utilities**33 70 Electrical Utilities****33 71 Electrical Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 71 19 13-0052 EA 24" x 36" x 12", Precast Concrete Extension	429.06	
33 71 19 13-0053 EA 30" x 48" x 12", Precast Concrete Extension	520.52	
33 71 19 13-0054 EA 36" x 60" x 12", Precast Concrete Extension	864.30	
33 71 19 13-0055 EA 36" x 72" x 12", Precast Concrete Extension	1,176.07	
33 71 19 13-0056 EA 48" x 48" x 12", Precast Concrete Extension	1,358.85	
33 71 19 13-0057 EA 48" x 60" x 12", Precast Concrete Extension	1,670.23	
33 71 19 13-0058 Manhole Accessories (33 71 19 13)		
33 71 19 13-0059 EA 6" Precast Grade Ring Riser Casting.....	631.49	
33 71 19 13-0060 EA 12" Precast Grade Ring Riser Casting.....	683.87	
33 71 19 13-0061 EA 36" Opening Cast Iron Frame And Cover (NEENAH #R-1640-D).....	2,869.08	
33 71 19 13-0062 EA 42" Opening Cast Iron Frame And Cover (NEENAH #R-1740-E1).....	3,746.19	
33 71 19 13-0063 EA Cast Iron Adjusting Ring (NEENAH #R-1979)	1,201.42	
33 71 19 13-0064 EA Cast Iron Frame And Cover (NEENAH #R-1640-B)	1,531.65	
33 71 19 23 Trenched Electrical Underground Duct and Ductbanks (33 71 19)		
33 71 19 23-0001 Underground Ductbank (33 71 19 23)		
Note: Installation of single or multiple configuration underground utility raceways assembly to have minimum 3" concrete leveling base and encased in concrete envelope. Based on minimum 100' run, minimum 30" bury depth. Includes installation in trench using the appropriate supports, cleaning to remove any obstructions and installation of nylon pull string. Excludes trenching, concrete, backfilling, grading and seeding. Duct Banks are to be installed according to the appropriate sections of the accompanying specifications. Individual rows to be stacked for larger duct bank configurations. See CSI section 03 30 53 00-0001 for concrete.		
33 71 19 23-0002 Rigid Galvanized Steel Conduit, Galvanized Rigid Conduit (GRC) Or Rigid Galvanized Steel (RGS), Duct Bank (33 71 19 23-0001)		
Note: Includes appropriate spacers and fittings.		
33 71 19 23-0003 LF 2 At 2", Rigid Galvanized Conduit Duct Bank	42.50	
33 71 19 23-0004 LF 4 At 2", Rigid Galvanized Conduit Duct Bank	85.03	
33 71 19 23-0005 LF 2 At 3", Rigid Galvanized Conduit Duct Bank	87.65	
33 71 19 23-0006 LF 4 At 3", Rigid Galvanized Conduit Duct Bank	175.81	
33 71 19 23-0007 LF 2 At 4", Rigid Galvanized Conduit Duct Bank	129.04	
33 71 19 23-0008 LF 4 At 4", Rigid Galvanized Conduit Duct Bank	259.44	
33 71 19 23-0009 LF 6 At 4", Rigid Galvanized Conduit Duct Bank	389.94	
33 71 19 23-0010 LF 2 At 5", Rigid Galvanized Conduit Duct Bank	242.48	
33 71 19 23-0011 LF 4 At 5", Rigid Galvanized Conduit Duct Bank	483.58	
33 71 19 23-0012 LF 6 At 5", Rigid Galvanized Conduit Duct Bank	744.07	
33 71 19 23-0013 LF 2 At 6", Rigid Galvanized Conduit Duct Bank	344.57	
33 71 19 23-0014 LF 4 At 6", Rigid Galvanized Conduit Duct Bank	691.64	
33 71 19 23-0015 LF 6 At 6", Rigid Galvanized Conduit Duct Bank	1,029.29	
33 71 19 23-0016 Polyvinyl Chloride (PVC), Type EB-20 Duct Bank System (33 71 19 23-0001)		
Note: Includes appropriate spacers and fittings.		
33 71 19 23-0017 LF 1 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	9.72	
33 71 19 23-0018 LF 2 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	21.33	
33 71 19 23-0019 LF 4 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	40.98	
33 71 19 23-0020 LF 1 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	12.88	
33 71 19 23-0021 LF 2 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	25.73	
33 71 19 23-0022 LF 4 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	52.24	
33 71 19 23-0023 LF 1 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	17.28	
33 71 19 23-0024 LF 2 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	34.58	
33 71 19 23-0025 LF 4 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	69.22	
33 71 19 23-0026 LF 6 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	103.79	
33 71 19 23-0027 LF 1 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	21.91	
33 71 19 23-0028 LF 2 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	43.79	
33 71 19 23-0029 LF 4 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	84.85	
33 71 19 23-0030 LF 6 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	120.48	
33 71 19 23-0031 LF 1 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	38.73	
33 71 19 23-0032 LF 2 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	59.40	
33 71 19 23-0033 LF 4 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	119.08	
33 71 19 23-0034 LF 6 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	192.17	
33 71 19 23-0035 Polyvinyl Chloride (PVC), Type DB-60 Duct Bank System (33 71 19 23-0001)		
Note: Includes appropriate spacers and fittings.		
33 71 19 23-0036 LF 1 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	10.80	
33 71 19 23-0037 LF 2 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	23.58	
33 71 19 23-0038 LF 4 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	45.18	
33 71 19 23-0039 LF 1 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	13.39	
33 71 19 23-0040 LF 2 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	26.75	
33 71 19 23-0041 LF 4 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	53.34	
33 71 19 23-0042 LF 1 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	17.72	
33 71 19 23-0043 LF 2 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	35.47	
33 71 19 23-0044 LF 4 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	71.00	
33 71 19 23-0045 LF 6 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	106.46	
33 71 19 23-0046 LF 1 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	22.58	
33 71 19 23-0047 LF 2 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	45.13	
33 71 19 23-0048 LF 4 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	87.53	



		Utilities	33	33
		Electrical Utilities	33 70	
		Electrical Utility Transmission and Distribution	33 71	

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
33 71 19 23-0049	LF	6 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	124.51	
33 71 19 23-0050	LF	1 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	39.66	
33 71 19 23-0051	LF	2 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	61.32	
33 71 19 23-0052	LF	4 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	122.93	
33 71 19 23-0053	LF	6 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank	197.95	
33 71 19 23-0054		Male Or Female Adapters (33 71 19 23-0001)		
33 71 19 23-0055	EA	2" Adapter.....	51.66	
33 71 19 23-0056	EA	3" Adapter.....	75.26	
33 71 19 23-0057	EA	4" Adapter.....	97.53	
33 71 19 23-0058	EA	5" Adapter.....	151.71	
33 71 19 23-0059	EA	6" Adapter.....	187.09	
33 71 19 23-0060		Underground Cable Protection Slab And Marking (33 71 19 23)		
33 71 19 23-0061	EA	24" x 12", 2" Concrete, Underground Cable Protection	6.90	

END OF SECTION 33

33	33	Utilities
	33 70	Electrical Utilities
	33 71	Electrical Utility Transmission and Distribution



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST

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Transportation		34
Operation and Maintenance of Transportation		34 01
Operation and Maintenance of Railways		34 01 23

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

34 Transportation

34 01 Operation and Maintenance of Transportation (34)

34 01 23 Operation and Maintenance of Railways (34 01)

34 01 23 33 Track Realignment (34 01 23)

34 01 23 33-0001 Realign Railroad Track (34 01 23 33)

34 01 23 33-0002	LF	Removal Of Track Rails And Ties And Re-Install Including New Bolts And Spikes	96.62	
34 01 23 33-0003	EA	Removal Of Railroad Track Turnouts And Re-Install Including New Bolts And Spikes	4,712.11	

34 10 Guideways/Railways (34)

34 11 Rail Tracks (34 10)

34 11 93 Track Appurtenances and Accessories (34 11)

34 11 93 00-0001 Railroad Crossings (34 11 93)

34 11 93 00-0002 Asphalt Railroad Crossings (34 11 93 00-0001)

Note: Based on 8" thickness x 20' including track and approach.

34 11 93 00-0003	EA	8" Asphalt Railroad Crossing, 12' Roadway 6 CY	2,157.18	345.39
34 11 93 00-0004	EA	8" Asphalt Railroad Crossing, 15' Roadway 7.4 CY	2,535.50	391.45
34 11 93 00-0005	EA	8" Asphalt Railroad Crossing, 18' Roadway 8.9 CY	2,992.56	460.53
34 11 93 00-0006	EA	8" Asphalt Railroad Crossing, 21' Roadway 10.4 CY	3,554.88	552.62
34 11 93 00-0007	EA	8" Asphalt Railroad Crossing, 24' Roadway 11.9 CY	4,301.38	690.78

34 11 93 00-0008 Railroad Crossings - Precast Concrete Inserts (34 11 93 00-0001)

Note: Based on 6" thickness x standard rail width gauge.

34 11 93 00-0009	EA	Precast Concrete, Railroad Crossing, 12' Road 6" Thick, Standard Gauge	7,065.01	159.21
34 11 93 00-0010	EA	Precast Concrete, Railroad Crossing, 15' Road 6" Thick, Standard Gauge	8,831.26	193.32
34 11 93 00-0011	EA	Precast Concrete, Railroad Crossing, 18' Road 6" Thick, Standard Gauge	10,591.89	238.81
34 11 93 00-0012	EA	Precast Concrete, Railroad Crossing, 21' Road 6" Thick, Standard Gauge	12,353.94	272.93
34 11 93 00-0013	EA	Precast Concrete, Railroad Crossing, 24' Road 6" Thick, Standard Gauge	14,115.09	318.41

34 11 93 00-0014 Molded Rubber Railroad Crossings With Headers (34 11 93 00-0001)

Note: Based on 3' x 8'-6" sections.

34 11 93 00-0015	EA	Molded Rubber Railroad Crossing, 12' Road 3' x 8'-6" Sections With Headers	3,264.37	159.21
34 11 93 00-0016	EA	Molded Rubber Railroad Crossing, 15' Road 3' x 8'-6" Sections With Headers	3,877.31	193.32
34 11 93 00-0017	EA	Molded Rubber Railroad Crossing, 18' Road 3' x 8'-6" Sections With Headers	4,484.62	238.81
34 11 93 00-0018	EA	Molded Rubber Railroad Crossing, 21' Road 3' x 8'-6" Sections With Headers	5,093.35	272.93
34 11 93 00-0019	EA	Molded Rubber Railroad Crossing, 24' Road 3' x 8'-6" Sections With Headers	5,701.19	318.41

34 11 93 00-0020 Railroad Trackage Demolition (34 11 93)

34 11 93 00-0021	CY	Removal Of Railroad Track Ballast	9.12	
34 11 93 00-0022	LF	Removal Of Railroad Track Rail And Spikes	22.81	
34 11 93 00-0023	EA	Removal And Disposal Of Concrete Post Footings	136.43	
34 11 93 00-0024	EA	Backfill Holes From Post Removal	56.86	

34 40 Transportation Signaling and Control Equipment (34)

34 41 Roadway Signaling and Control Equipment (34 40)

34 41 13 Traffic Signals (34 41)

34 41 13 00-0001 Traffic Signals (34 41 13)

34 41 13 00-0002	EA	Single Traffic Signal Head, 4 Way Pattern	7,029.84	961.82

34 41 13 00-0003 Traffic Detector Induction Loop (34 41 13)

34 41 13 00-0004	EA	6' x 6', Type A, 3 Turns Per Loop, Traffic Detector Induction Loop	421.13	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.				
34 41 13 00-0005	EA	6' x 6', Type D, 3 Turns Per Loop, Traffic Detector Induction Loop	525.33	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.				
34 41 13 00-0006	EA	6' x 6', Type D, 5 Turns Per Loop, Traffic Detector Induction Loop	605.81	
Note: Includes saw cutting, 5 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.				
34 41 13 00-0007	EA	6' x 6', Type Q, 3 Turns Per Loop, Traffic Detector Induction Loop	515.74	
Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.				

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0008 EA 6' x 20', Type C, 3 Turns Per Loop, Traffic Detector Induction Loop..... Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	895.13	
34 41 13 00-0009 EA 6' x 28', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop..... Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,087.84	
34 41 13 00-0010 EA 6' x 28', Type C, 3 Turns Per Loop, Traffic Detector Induction Loop..... Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,170.65	
34 41 13 00-0011 EA 6' x 40', Type C, 1 Turn Per Loop, Traffic Detector Induction Loop Note: Includes saw cutting, 1 turn wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,415.41	
34 41 13 00-0012 EA 6' x 40', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop..... Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,537.68	
34 41 13 00-0013 EA 6' x 50', Type C, 1 Turn Per Loop, Traffic Detector Induction Loop Note: Includes saw cutting, 1 turn wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,631.79	
34 41 13 00-0014 EA 6' x 50', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop..... Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,781.17	
34 41 13 00-0015 LF In Pavement, Lead Wire For Traffic Signal Detector..... Note: Includes saw cutting, sealing and splicing into traffic signal loop wire in street. Excludes junction box or conduit.	7.86	
34 41 13 00-0016 LF In Earthwork, Lead Wire For Traffic Signal Detector..... Note: Includes trenching in earthwork and splicing into traffic signal loop wire. Excludes junction box or conduit.	3.73	
34 41 13 00-0017 EA 2 Channel, Rack Mounted, Traffic Loop Vehicle Detector (Reno A&E Model 222).....	283.43	
34 41 13 00-0018 EA 4 Channel, Rack Mounted, Traffic Loop Vehicle Detector (Reno A&E Model E-1100).....	779.78	
34 41 13 00-0019 EA 2 Channel, Rack Mounted, Traffic Loop Bicycle Detector (Reno A&E Model C-1100).....	488.55	
34 41 13 00-0020 Overhead Traffic Signals (34 41 13)		
34 41 13 00-0021 EA Vehicle Signal Face, LED, 1 - 12" Section.....	630.28	204.39
34 41 13 00-0022 EA Vehicle Signal Face, LED, 2 - 12" Sections.....	1,013.54	288.55
34 41 13 00-0023 EA Vehicle Signal Face, LED, 3 - 12" Sections.....	1,407.15	352.67
34 41 13 00-0024 EA Vehicle Signal Face, LED, 3 - 12" Sections, Middle Section Blank.....	1,341.36	352.67
34 41 13 00-0025 EA Vehicle Signal Face, LED, 4 - 12" Sections.....	1,772.42	392.75
34 41 13 00-0026 EA Vehicle Signal Face, LED, 5 - 12" Sections.....	2,105.63	416.79
34 41 13 00-0027 EA Vehicle Signal Face, LED, 5 - 12" Sections, Cluster.....	2,232.83	416.79
34 41 13 00-0028 EA Vehicle Signal Face, LED, 1 - 8" Section.....	597.39	204.39
34 41 13 00-0029 EA Vehicle Signal Face, LED, 2 - 8" Sections.....	947.74	288.55
34 41 13 00-0030 EA Vehicle Signal Face, LED, 3 - 8" Sections.....	1,247.05	352.67
34 41 13 00-0031 EA Vehicle Signal Face, LED, 2 - 8" Sections, 1 - 12" Section.....	1,328.20	352.67
34 41 13 00-0032 EA Vehicle Signal Face, LED, 2 - 8" Sections, 2 - 12" Sections.....	1,632.06	392.75
34 41 13 00-0033 EA Vehicle Signal Face, LED, 3 - 8" Sections, 1 - 12" Section.....	1,586.00	392.75
34 41 13 00-0034 EA Vehicle Signal Face, LED, 3 - 8" Sections, 2 - 12" Sections.....	1,864.37	416.79
34 41 13 00-0035 EA Vehicle Signal Face, LED, 3 - 8" Sections, 2 - 12" Sections In Cluster.....	1,967.45	416.79
34 41 13 00-0036 EA Vehicle Signal Face, LED, 3 - 12" Sections, Optically Programmed.....	2,766.94	352.67
34 41 13 00-0037 EA Vehicle Signal Face, LED, 4 - 12" Sections, Optically Programmed.....	3,599.36	392.75
34 41 13 00-0038 EA Vehicle Signal Face, LED, 5 - 12" Sections, Optically Programmed.....	4,671.67	416.79
34 41 13 00-0039 EA Vehicle Signal Face, LED, 5 - 12" Sections In Cluster, Optically Programmed.....	5,055.48	416.79
34 41 13 00-0040 EA Bracket Signal Mounting Assembly.....	596.95	160.30
34 41 13 00-0041 EA Mast Arm Signal Mounting Assembly.....	1,066.69	320.61
34 41 13 00-0042 EA Top Pole Signal Mounting Assembly.....	376.44	120.22
34 41 13 00-0043 EA Pedestrian Signal Head.....	1,073.07	240.46
34 41 13 00-0044 EA Pedestrian Signal Insert.....	654.97	120.22
34 41 13 00-0045 EA Audible Pedestrian Signal.....	1,378.69	
34 41 13 00-0046 EA Junction Box, Pole Or Post Mounted.....	544.48	
34 41 13 00-0047 EA Pedestrian Push Button.....	514.41	
34 41 13 00-0048 EA Illuminated Sign, Bracket Mounted, Symbolic.....	3,779.32	
34 41 13 00-0049 EA Illuminated Sign, Mast Arm Mounted, Symbolic.....	3,960.33	
34 41 13 00-0050 EA Sign, Message, "BLANK OUT", Bracket Mounted.....	4,137.31	
34 41 13 00-0051 EA Sign, Message, "BLANK OUT", Mast Arm Mounted.....	4,410.11	
34 41 13 00-0052 EA Sign, Fiber Optic, Bracket Mounted.....	4,679.66	
34 41 13 00-0053 EA Sign, Fiber Optic, Mast Arm Mounted.....	4,958.27	
34 41 13 00-0054 EA 16" Pedestal With Base Plate And Cover.....	1,800.76	226.21
34 41 13 00-0055 EA 30' Type 15TS Signal And Lighting Standard..... Note: 8" diameter base and 3-7/8" diameter top. 0.1793" wall thickness.	7,091.29	
34 41 13 00-0056 EA 35' Type 21TS Signal And Lighting Standard..... Note: 9-3/8" diameter base and 3-9/16" diameter top. 0.1793" wall thickness.	8,183.40	
34 41 13 00-0057 EA 17' Type 18-2-100 Signal And Lighting Standard..... Note: 10-3/4" diameter base and 8-7/16" diameter top. 0.1793" wall thickness.	4,053.56	
34 41 13 00-0058 EA 17' Type 18-3-100 Signal And Lighting Standard..... Note: 10-3/4" diameter base and 8-7/16" diameter top. 0.2391" wall thickness.	4,475.22	
34 41 13 00-0059 EA 17' Type 18-4-100 Or 23-4-100 Signal And Lighting Standard..... Note: 12" diameter base and 9" diameter top. 0.2391" wall thickness.	4,636.86	
34 41 13 00-0060 EA 17' Type 23-3-100 Signal And Lighting Standard..... Note: 12" diameter base and 9-5/8" diameter top. 0.2391" wall thickness.	4,636.86	
34 41 13 00-0061 EA 17' Type 23-4-100 Signal And Lighting Standard..... Note: 12" diameter base and 9-5/8" diameter top. 0.2391" wall thickness.	4,721.72	
34 41 13 00-0062 EA 17' Type 27-3-100 Signal And Lighting Standard..... Note: 12-1/8" diameter base and 9-3/4" diameter top. 0.3125" wall thickness.	5,146.04	



Transportation		34
Transportation Signaling and Control Equipment		34 40
Roadway Signaling and Control Equipment		34 41

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0063	EA	17' Type 27-4-100 Signal And Lighting Standard Note: 13-1/2" diameter base and 9-3/4" diameter top. 0.3125" wall thickness.	5,243.61	
34 41 13 00-0064	EA	17' Type 28-5-100 Signal And Lighting Standard Note: 14" diameter base and 11-11/16" diameter top. 0.3125" wall thickness.	5,443.68	
34 41 13 00-0065	EA	17' Type 60-5-100 Signal And Lighting Standard Note: 16" diameter base and 13-11/16" diameter top. 0.3125" wall thickness.	5,758.77	
34 41 13 00-0066	EA	18'-6" Type 16-2-100 Or 16-3-100 Signal And Lighting Standard Note: 10-3/4" diameter base and 8-1/4" diameter top. 0.1793" wall thickness.	4,301.61	
34 41 13 00-0067	EA	30' Type 17-2-100 Or 17-3-100 Signal And Lighting Standard Note: 10-3/4" diameter base and 6-5/8" diameter top. 0.1793" wall thickness.	7,534.04	
34 41 13 00-0068	EA	30' Type 19-2-100 Signal And Lighting Standard Note: 10-3/4" diameter base and 6-5/8" diameter top. 0.2391" wall thickness.	8,419.54	
34 41 13 00-0069	EA	30' Type 19-3-100 Or 24-3-100 Signal And Lighting Standard Note: 12" diameter base and 7-7/8" diameter top. 0.2391" wall thickness.	8,758.98	
34 41 13 00-0070	EA	30' Type 19-4-100 Or 24-4-100 Signal And Lighting Standard Note: 12" diameter base and 8" diameter top. 0.2391" wall thickness.	8,758.98	
34 41 13 00-0071	EA	30' Type 26-3-100 Signal And Lighting Standard Note: 12-1/8" diameter base and 8" diameter top. 0.3125" wall thickness.	9,828.21	
34 41 13 00-0072	EA	30' Type 26-4-100 Signal And Lighting Standard Note: 13-1/2" diameter base and 8" diameter top. 0.3125" wall thickness.	10,238.09	
34 41 13 00-0073	EA	30' Type 29-5-100 Signal And Lighting Standard Note: 14" diameter base and 9-7/8" diameter top. 0.3125" wall thickness.	10,668.44	
34 41 13 00-0074	EA	30' Type 61-5-100 Signal And Lighting Standard Note: 16" diameter base and 11-7/8" diameter top. 0.3125" wall thickness.	11,346.29	
34 41 13 00-0075	EA	35' Type 17A-2-100 Signal And Lighting Standard Note: 10-3/4" diameter base and 5-15/16" diameter top. 0.1793" wall thickness.	8,750.89	
34 41 13 00-0076	EA	35' Type 19A-2-100 Signal And Lighting Standard Note: 10-3/4" diameter base and 5-15/16" diameter top. 0.2391" wall thickness.	9,783.96	
34 41 13 00-0077	EA	35' Type 19A-3-100 Or 24A-3-100 Signal And Lighting Standard Note: 12" diameter base and 7-3/16" diameter top. 0.2391" wall thickness.	10,179.99	
34 41 13 00-0078	EA	35' Type 19A-4-100 Or 24A-4-100 Signal And Lighting Standard Note: 12" diameter base and 7-5/16" diameter top. 0.2391" wall thickness.	10,179.99	
34 41 13 00-0079	EA	35' Type 26A-3-100 Signal And Lighting Standard Note: 12-1/8" diameter base and 7-5/16" diameter top. 0.3125" wall thickness.	11,427.42	
34 41 13 00-0080	EA	35' Type 26A-4-100 Signal And Lighting Standard Note: 13-1/2" diameter base and 7-5/16" diameter top. 0.3125" wall thickness.	11,905.61	
34 41 13 00-0081	EA	35' Type 29A-5-100 Signal And Lighting Standard Note: 14" diameter base and 9-3/16" diameter top. 0.3125" wall thickness.	12,407.70	
34 41 13 00-0082	EA	35' Type 61A-5-100 Signal And Lighting Standard Note: 16" diameter base and 11" diameter top. 0.3125" wall thickness.	13,198.49	
34 41 13 00-0083	EA	15' Steel Straight Mast Arm, MONOTUBE	3,060.99	
34 41 13 00-0084	EA	20' Steel Straight Mast Arm, MONOTUBE	3,218.49	
34 41 13 00-0085	EA	25' Steel Straight Mast Arm, MONOTUBE	3,433.06	
34 41 13 00-0086	EA	30' Steel Straight Mast Arm, MONOTUBE	4,545.89	
34 41 13 00-0087	EA	35' Steel Straight Mast Arm, MONOTUBE	5,434.27	
34 41 13 00-0088	EA	40' Steel Straight Mast Arm, MONOTUBE	5,822.29	
34 41 13 00-0089	EA	45' Steel Straight Mast Arm, MONOTUBE	6,418.05	
34 41 13 00-0090	EA	50' Steel Straight Mast Arm, MONOTUBE	7,282.04	
34 41 13 00-0091	EA	55' Steel Straight Mast Arm, MONOTUBE	8,324.70	
34 41 13 00-0092	EA	60' Steel Straight Mast Arm, MONOTUBE	9,044.78	
34 41 13 00-0093	EA	65' Steel Straight Mast Arm, MONOTUBE	10,481.47	
34 41 13 00-0094	EA	4' Steel Curved Luminaire Mast Arm	1,062.69	
34 41 13 00-0095	EA	6' Steel Curved Luminaire Mast Arm	1,376.06	
		For High Rise Arm, Add	105.42	
34 41 13 00-0096	EA	8' Steel Curved Luminaire Mast Arm	1,721.46	
34 41 13 00-0097	EA	10' Steel Curved Luminaire Mast Arm	2,408.81	
		For High Rise Arm, Add	155.17	
34 41 13 00-0098	EA	12' Steel Curved Luminaire Mast Arm	2,638.70	
		For High Rise Arm, Add	183.00	
34 41 13 00-0099	EA	15' Steel Curved Luminaire Mast Arm	2,734.90	
		For High Rise Arm, Add	204.09	
34 41 13 00-0100	EA	15' Tubular Aluminum Post.....	1,134.88	
34 41 13 00-0101	EA	17' Tubular Aluminum Post.....	1,214.54	
34 41 13 00-0102	EA	20' Tubular Aluminum Post.....	1,356.18	
34 41 13 00-0103	EA	CUT-OFF POLE AND CAPPED	220.50	
34 41 13 00-0104	EA	PAINT EXISTING SL/TS CONTROLLER COMPLETE	65.08	
34 41 13 00-0105	EA	PAINT EXISTING TS POST COMPLETE	312.60	
34 41 13 00-0106	EA	1 Channel Loop Detector Amplifier	1,564.03	
34 41 13 00-0107	EA	4 Channel Loop Detector Amplifier	2,906.41	
34 41 13 00-0108	EA	FLASHING BEACON WITH DOWNLIGHT	2,373.11	
34 41 13 00-0109	EA	Flashing Beacon, Bracket Mounted	880.37	
34 41 13 00-0110	EA	Flashing Beacon, Mast Arm Mounted	880.37	
34 41 13 00-0111	EA	Flashing Beacon, Solar Powered, Bracket Mounted.....	20,099.60	
34 41 13 00-0112	EA	Service Equipment Enclosure, Type III-AF	1,458.10	
34 41 13 00-0113	EA	12", 3 Section Signal, Mast Arm Mounted	1,894.38	
34 41 13 00-0114	EA	8", 3 Section Signal, Mast Arm Mounted	1,691.65	
34 41 13 00-0115	EA	12" FCV Visor	106.57	
34 41 13 00-0116	EA	8" FCV Visor	77.32	
34 41 13 00-0117	EA	Eggcrate Visor	102.95	
34 41 13 00-0118	EA	Pedestrian H/M	1,206.53	
34 41 13 00-0119	EA	Pedestrian Audio	1,314.28	
34 41 13 00-0120	EA	Adjustable Pushbutton.....	343.07	
34 41 13 00-0121	EA	ADA Cap And Switch	423.56	

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0122 EA 3 Section 12" Backplate.....	174.87	
34 41 13 00-0123 EA 3 Section 12" MAS Mount Backplate	257.95	
34 41 13 00-0124 EA 3 Section 8" Backplate.....	142.04	
34 41 13 00-0125 EA 12" Red LED Lenses	294.73	
34 41 13 00-0126 EA 12" Amber LED Lenses	314.85	
34 41 13 00-0127 EA 12" Green LED Lenses	535.64	
34 41 13 00-0128 EA 12" Red Arrow.....	293.11	
34 41 13 00-0129 EA 12" Amber Arrow.....	278.37	
34 41 13 00-0130 EA 12" Green Arrow	407.51	
34 41 13 00-0131 EA 8" Red.....	290.12	
34 41 13 00-0132 EA 8" Amber.....	279.24	
34 41 13 00-0133 EA 8" Green	332.95	
34 41 13 00-0134 EA Hand/Man	499.57	
34 41 13 00-0135 EA Frameworks, 8" TV-1-T.....	609.73	
34 41 13 00-0136 EA Frameworks, 8" TV-2-T.....	687.91	
34 41 13 00-0137 EA Frameworks, MAT MT	185.00	
34 41 13 00-0138 EA Frameworks, MAS MT	200.64	
34 41 13 00-0139 EA Frameworks, 3W PT TC	355.72	
34 41 13 00-0140 EA Frameworks, 2W PT TC	402.42	
34 41 13 00-0141 EA Frameworks, 2W SM TC.....	381.58	
34 41 13 00-0142 EA Frameworks, SV-1	255.35	
34 41 13 00-0143 EA Frameworks, TV-1	247.53	
34 41 13 00-0144 EA Type III Service Pedestal	4,673.19	
34 41 13 00-0145 EA Single Fuse Holder	48.31	
34 41 13 00-0146 EA Double Fuse Holder.....	113.96	
34 41 13 00-0147 EA Pullbox, 1-1/2" x 20" x 14".....	111.89	
34 41 13 00-0148 EA Pullbox, 5" x 28" x 18".....	149.75	
34 41 13 00-0149 EA Pullbox, 6" x 36" x 23".....	194.25	
34 41 13 00-0150 EA Pullbox Lids, FL9D.....	113.23	
34 41 13 00-0151 EA Pullbox Lids, FL30D.....	208.32	
34 41 13 00-0152 EA Pullbox Lids, FL36D.....	63.72	
34 41 13 00-0153 EA LED Enhanced Pedestrian Crossing Symbol Sign	1,988.80	135.45
Note: 2 required per system.		
34 41 13 00-0154 EA 42" Height, 8-1/2" Diameter Automatic Bollard Activation System	5,812.62	812.71
Note: 4 required per system.		
34 41 13 00-0155 EA Power Control Unit With Enclosure (Solar).....	19,644.42	541.80
Note: LightGuard Systems solar power equipment Includes: one solar array consisting of 1 Siemens SP70 solar power module (21" x 47" to be pole mounted, pole not included), #14 AWG solar tray cable, mounting hardware, one enclosure (16-1/2" width x 27-1/2" height x 15" depth), two 12V 80AH deep cycle gel cell batteries and a solar power control unit (PCU).		
34 41 13 00-0156 EA Power Control Unit With Enclosure (A/C)	12,666.02	541.80
34 41 13 00-0157 EA Push Button Assembly With Sign	1,193.31	270.90
34 41 13 00-0158 EA Advanced Warning Signs.....	2,264.68	270.90
34 41 13 00-0159 EA 14' High Galvanized Steel Traffic Signal Pole.....	3,631.90	
Note: For mast arm.		
34 41 13 00-0160 EA 21' High Galvanized Steel Traffic Signal Pole.....	5,374.78	
Note: For mast arm.		
34 41 13 00-0161 EA 22' High Galvanized Steel Traffic Signal Pole.....	5,571.55	
Note: For mast arm and luminare arm.		
34 41 13 00-0162 EA 30' High Galvanized Steel Traffic Signal Pole, Tapered, For >55' Mast Arm	7,528.65	
Note: For mast arm and luminare arm.		
34 41 13 00-0163 EA 32' High Galvanized Steel Traffic Signal Pole, Tapered, For Up To 55' Mast Arm	7,848.54	
Note: For mast arm and luminare arm.		
34 41 13 00-0164 EA 30' High Galvanized Steel Traffic Signal Pole, Tapered, For Up To 55' Mast Arm	6,267.37	
34 41 13 00-0165 EA 30' High Galvanized Steel Traffic Signal Pole, Octafit.....	5,626.64	
34 41 13 00-0166 EA 30' (High Spun Aluminum Traffic Signal Pole, Tapered	4,657.51	
34 41 13 00-0167 EA Type 26-6-70 Signal Pole With 55' SMA And 20' LMA.....	25,258.80	
34 41 13 00-0168 EA Type 29-6-70 Signal Pole With 65' SMA And 20' LMA	29,242.58	
34 41 13 00-0169 EA Wireless Access Point (Proxim Tsunami MP11 954-BSUR-US).....	4,025.47	
34 41 13 00-0170 EA Ruggedized Subscriber Unit (Proxim Tsunami MP11 954-SUA-US).....	2,174.29	
34 41 13 00-0171 EA Smart Sensor HD (Wavetronix HD125)	11,455.82	
34 41 13 00-0172 EA Access Point (Sensys AP240-ES)	5,311.72	
Note: RJ45 port supports simultaneous Ethernet and CC card communications (split via Access Box) combined with data relay, statistics-processing and VPN functionality.		
34 41 13 00-0173 EA Sensys Access Point AP240-ESC-VER - RJ45 port supports simultaneous Ethernet and CC card communications (split via Access Box) combined with data relay, statistics-processing and VPN functionality with Integrated 1xRTT cellular data modem for data relay via CDMA.....	9,172.23	
34 41 13 00-0174 EA Mounting Kit for Access Points and Repeaters (KIT-MTG).....	338.82	
34 41 13 00-0175 EA Repeater (Sensys RP240-B-LL)	2,434.67	
Note: Nominal battery capacity of 171 Ah with seven (7) year battery-life.		
34 41 13 00-0176 EA Wireless Flush Mounted Sensor (Sensys VSN240-F)	1,110.09	
Note: Excludes coring.		
34 41 13 00-0177 EA Sensor Mounting Bracket, Cable, Lightning Surge Protector, Power Supply, Breaker, AC Surge Protector, Din Rail and Power Plug	2,787.51	
34 41 13 00-0178 EA Pole Base Foundation for 17-2-80, 17-2-100, 19-2-80 Poles.....	7,084.75	2.16
34 41 13 00-0179 EA Pole Base Foundation for 17-3-80, 19-3-80, 26-3-80 & 26-4-80 Poles	9,272.76	2.16
34 41 13 00-0180 EA Pole Base Foundation for Type 15 and 21 Poles.....	5,528.89	2.16
34 41 13 00-0181 EA Pole Base Foundation for 18-4-100, 19-4-100, 23-4-100, And 24-4-100 Poles	7,084.75	2.16
34 41 13 00-0182 EA Pole Base Foundation for 26-4-100 And 27-4-100 Poles	9,272.76	2.16

34 41 13 00-0183 Traffic Signal Cable (34 41 13)



		Transportation	34	34
		Transportation Signaling and Control Equipment	34 40	
		Roadway Signaling and Control Equipment	34 41	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0184	LF		16 AWG, 2-Conductor, Solid, Traffic Signal Cable	2.42	1.12
34 41 13 00-0185	LF		16 AWG, 3-Conductor, Solid, Traffic Signal Cable	2.66	1.19
34 41 13 00-0186	LF		16 AWG, 4-Conductor, Solid, Traffic Signal Cable	2.89	1.27
34 41 13 00-0187	LF		16 AWG, 5-Conductor, Solid, Traffic Signal Cable	3.12	1.35
34 41 13 00-0188	LF		16 AWG, 6-Conductor, Solid, Traffic Signal Cable	3.37	1.44
34 41 13 00-0189	LF		16 AWG, 8-Conductor, Solid, Traffic Signal Cable	3.85	1.59
34 41 13 00-0190	LF		16 AWG, 10-Conductor, Solid, Traffic Signal Cable	4.49	1.83
34 41 13 00-0191	LF		16 AWG, 12-Conductor, Solid, Traffic Signal Cable	5.13	2.07
34 41 13 00-0192	LF		16 AWG, 16-Conductor, Solid, Traffic Signal Cable	5.95	2.31
34 41 13 00-0193	LF		16 AWG, 20-Conductor, Solid, Traffic Signal Cable	6.87	2.54
34 41 13 00-0194	LF		14 AWG, 2-Conductor, Solid, Traffic Signal Cable	2.46	1.12
34 41 13 00-0195	LF		14 AWG, 3-Conductor, Solid, Traffic Signal Cable	2.73	1.19
34 41 13 00-0196	LF		14 AWG, 4-Conductor, Solid, Traffic Signal Cable	2.97	1.27
34 41 13 00-0197	LF		14 AWG, 5-Conductor, Solid, Traffic Signal Cable	3.23	1.35
34 41 13 00-0198	LF		14 AWG, 6-Conductor, Solid, Traffic Signal Cable	3.50	1.44
34 41 13 00-0199	LF		14 AWG, 8-Conductor, Solid, Traffic Signal Cable	4.02	1.59
34 41 13 00-0200	LF		14 AWG, 10-Conductor, Solid, Traffic Signal Cable	4.70	1.83
34 41 13 00-0201	LF		14 AWG, 12-Conductor, Solid, Traffic Signal Cable	5.38	2.07
34 41 13 00-0202	LF		14 AWG, 16-Conductor, Solid, Traffic Signal Cable	6.28	2.31
34 41 13 00-0203	LF		14 AWG, 20-Conductor, Solid, Traffic Signal Cable	7.31	2.54
34 41 13 00-0204	LF		12 AWG, 2-Conductor, Solid, Traffic Signal Cable	2.57	1.12
34 41 13 00-0205	LF		12 AWG, 3-Conductor, Solid, Traffic Signal Cable	2.89	1.19
34 41 13 00-0206	LF		12 AWG, 4-Conductor, Solid, Traffic Signal Cable	3.18	1.27
34 41 13 00-0207	LF		12 AWG, 5-Conductor, Solid, Traffic Signal Cable	3.47	1.35
34 41 13 00-0208	LF		12 AWG, 6-Conductor, Solid, Traffic Signal Cable	3.81	1.44
34 41 13 00-0209	LF		12 AWG, 8-Conductor, Solid, Traffic Signal Cable	4.43	1.59
34 41 13 00-0210	LF		12 AWG, 10-Conductor, Solid, Traffic Signal Cable	5.20	1.83
34 41 13 00-0211	LF		12 AWG, 12-Conductor, Solid, Traffic Signal Cable	5.98	2.07
34 41 13 00-0212	LF		12 AWG, 16-Conductor, Solid, Traffic Signal Cable	7.07	2.31
34 41 13 00-0213	LF		12 AWG, 20-Conductor, Solid, Traffic Signal Cable	8.37	2.54
34 41 13 00-0214 School Zone Flasher Beacons (34 41 13)					
34 41 13 00-0215	EA		One 8" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly..... Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 30 Watt tilted solar panel, solar regulator, and solid state flasher.	5,905.48	242.75
34 41 13 00-0216	EA		One 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly..... Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 30 Watt tilted solar panel, solar regulator, and solid state flasher.	5,947.14	242.75
34 41 13 00-0217	EA		Two 8" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly..... Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.	6,654.49	242.75
34 41 13 00-0218	EA		Two 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly..... Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.	6,787.82	242.75
34 41 13 00-0219	EA		10" Digit Radar Display, One 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly... Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 80 Watt tilted solar panel, solar regulator, and solid state flasher.	12,418.63	242.75
34 41 13 00-0220	EA		10" Digit Radar Display, Two 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly... Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.	12,941.11	242.75
34 41 13 00-0221 Traffic Light Control Synchronization (34 41 13)					
34 41 13 00-0222	EA		ENCOM COMPAK IP Radio/Wireless Ethernet Transceiver, 900 MHz FHSS 1 Watt output power and 128-bit data encryption with 1.1Mbps Throughput.....	5,168.62	
34 41 13 00-0223	EA		ENCOM 5200R 900 MHz Serial Radio Modem, contains one Serial (RS-232 or RS-485) interface and 170/TS1/TS2 detector rack (EPR-5200R)	3,880.61	
34 41 13 00-0224	EA		ENCOM Dual 2.4/2.4 GHZ Broadband Radio with Integrated Antenna (COMMPAKBB24/24)	9,058.33	
34 41 13 00-0225	EA		5.8 GHZ Broadband Radio with Integrated Antenna (COMMPAKBB58INT)	6,117.80	
34 41 13 00-0226	EA		2.4 GHZ Broadband Radio with Integrated Antenna (COMMPAKBB24INT)	6,117.80	
34 41 13 00-0227	EA		Solar Cabinet Assembly	16,755.89	
34 41 13 00-0228	EA		Data Controller Interface Cable Assembly	680.35	
34 41 13 00-0229	EA		900 MHZ Splitter.....	772.95	
34 41 13 00-0230	EA		900 MHZ Surge Suppressor	275.95	
34 41 13 00-0231	EA		Surge-Radio Lead in Cable	173.47	
34 41 13 00-0232	EA		12DB GAIN YAGI Antenna	811.82	
34 41 13 00-0233	EA		PELCO Antenna Mounting Bracket	557.64	
34 41 13 00-0234	MLF		Coaxial Cable, LMR-400.....	4,211.36	
34 41 13 00-0235	EA		Perle 16 Port Serial Server	4,678.08	
34 41 13 00-0236	EA		Serial to Ethernet Card	2,379.61	
34 41 13 00-0237	EA		404 Stand Alone Modem (GDI 404).....	2,126.56	
34 41 13 00-0238 Traffic Signal Controls (34 41 13)					
34 41 13 00-0239	EA		Master Card for Type 2070 or NEMA TS2 traffic controllers (CC-TS2)	1,898.16	
34 41 13 00-0240	EA		Extension Card for Type 2070 or NEMA traffic controllers (EX-TS2).....	754.06	
34 41 13 00-0241	EA		AccessBox for contract closure master card (CC-ACC)	268.27	
34 41 13 00-0242	EA		Flush Mount Wireless Sensor (ATT VSN240-F).....	1,037.44	
34 41 13 00-0243	EA		Flush Mount Wireless Sensor (Speed & Count VSN240-F).....	1,037.44	
34 41 13 00-0244	EA		Epoxy Tube for Installation of Wireless Sensor (VSN240-EPX)	160.77	
34 41 13 00-0245	EA		SNAPS License for each enabled AP (SNAPS-PER-AP).....	435.71	

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0246 Traffic Signal Devices (34 41 13)		
34 41 13 00-0247 EA 12" Polycarbonate Signal Head Housing (McCain).....	994.46	121.90
34 41 13 00-0248 EA 16" Polycarbonate Pedestrian Signal Housing (McCain).....	518.03	94.82
34 41 13 00-0249 EA Pedestrian Push Button Cap & Switch (McCain M31334).....	427.23	176.09
34 41 13 00-0250 EA Pedestrian Push Button Frame Assembly 4" Diameter Pole (McCain M19712).....	589.78	257.35
34 41 13 00-0251 EA Pedestrian Push Button Frame Assembly 2" Diameter Pole (McCain M30793).....	455.14	203.18
34 41 13 00-0252 EA 16 Channel Conflict Monitor (McCain 2010 ECLIP).....	1,461.56	88.04
34 41 13 00-0253 EA LED Countdown Head (McCain GTX PS7-CFF1-VLA).....	306.06	33.86
34 41 13 00-0254 EA Traffic signal Video Detection Camera (Iteris RZ4-awdr).....	3,291.18	149.00
34 41 13 00-0255 EA Camera processor card (Iteris Edge Connect).....	7,470.70	216.72
34 41 13 00-0256 EA Wireless Broadband Radio (Encorn BB58).....	7,054.21	203.18
34 41 13 00-0257 EA 24-port Gigabit and 4-port 1G/10G SFP+ Ethernet Switch (Etherwan EX77900).....	4,669.41	162.54
34 41 13 00-0258 EA Power Adapter (Mean Well DR-120-48).....	179.68	50.80
34 41 13 00-0259 LF 14/1 Cal Trans Type 2 Inductive Traffic Detection Loops (Advanced Digital Cable 8452).....	1.12	
34 41 13 00-0260 EA Radar Detection System (Wavetronix Matrix).....	13,683.56	514.72
34 41 13 00-0261 EA Pedestrian Audio Push Button (Polara APS).....	444.60	128.68
34 41 13 00-0262 EA Opticom Infrared System - Detector (GTT 711).....	1,078.60	120.82
34 41 13 00-0263 EA Opticom Infrared System - Detector (GTT 721).....	1,206.78	135.18
34 41 13 00-0264 EA Opticom Infrared System - Detector (GTT 722).....	1,680.79	188.28
34 41 13 00-0265 EA Opticom Multimode Phase Selector (GTT 764).....	5,385.19	111.33
34 41 13 00-0266 LF Opticom GPS Installation Cable (GTT 1070).....	1.32	
34 41 13 00-0267 EA Precast Concrete Traffic Pull Box, 5-T, with steel frame & diamond steel plate lid ("Traffic Signal") (Jensen Precast HT1324).....	914.98	
34 41 13 00-0268 EA Precast Concrete Traffic Pull Box, 6-T, with steel frame & diamond steel plate lid ("Traffic Signal") (Jensen Precast HT1730).....	970.29	
34 41 13 00-0269 EA UPS Module (Alpha Technologies FXM 350).....	1,476.77	74.12
Note: For battery backup in traffic signal control cabinet		
34 41 13 00-0270 EA Web Connected Relay Switch (Control by Web X-301 WebRelay-Dual).....	478.36	60.96
Note: To control flashing "School" signs		
34 41 13 00-0271 LF Fiber optic cable, 72 strand, single mode, riser non-plenum jacket (Optical Cable Corp DX072DSLX9KR).....	10.42	0.62
34 41 13 00-0272 LF Fiber optic cable, 12 strand, multi mode, riser non-plenum jacket (Superior Essex W30126G01 MM Fiber).....	2.64	0.53
34 41 13 00-0273 EA 12" LED Signal Module, Tinted Lens, Red (GE DR6-RTFB-VLA).....	154.13	60.96
34 41 13 00-0274 EA 12" LED Signal Module, Tinted Lens, Yellow (GE DR6-YTFB-VLA).....	154.13	60.96
34 41 13 00-0275 EA 12" LED Signal Module, Tinted Lens, Green (GE DR6-GTFB-VLA).....	154.13	60.96
34 41 13 00-0276 EA 12" LED Signal Module, Clear Lens, Red (GE DR6-RCFB-VLA).....	154.13	60.96
34 41 13 00-0277 EA 12" LED Signal Module, Clear Lens, Yellow (GE DR6-YCFB-VLA).....	154.13	60.96
34 41 13 00-0278 EA 12" LED Signal Module, Clear Lens, Green (GE DR6-GCFB-VLA).....	154.13	60.96
34 41 13 00-0279 EA LED Countdown Pedestrian Signal, 16" x 18" (GE PS7-CFF1-VLA).....	447.73	155.77
34 41 13 00-0280 EA EOC Switch (Actellis ML688).....	5,455.83	481.79
34 41 13 00-0281 EA Ethernet Extender Kit (ENABLE-IT 860 Pro).....	1,462.90	111.18
34 41 13 00-0282 EA #5 pull box lid (Concrete, Bolt down) (Christy N30T).....	123.15	28.38
34 41 13 00-0283 EA #5 pull box lid (Steel, Bolt down) (Christy N30-61J).....	421.86	41.08
34 41 13 00-0284 EA #6 pull box lid (Concrete, Bolt down) (Christy N36T).....	151.01	28.38
34 41 13 00-0285 EA #6 pull box lid (Steel, Bolt down) (Christy N36-61J).....	508.07	41.08
34 41 13 00-0286 EA Battery Back-up (Alpha FXM110 UPS).....	3,473.85	148.25
34 41 13 00-0287 EA Battery (Alpha AlphaCell 220GXL).....	497.76	37.06
34 41 13 00-0288 EA BBS Cabinet (Alpha SE48-1616).....	4,056.27	333.55
34 41 13 00-0289 LF Fiber 72 Strands (Corning 072ZU4-T3F22D20).....	7.06	2.90
34 41 13 00-0290 LF Fiber 12 Strands (Corning 012ZU4-T3F22D20).....	3.13	1.33
34 41 13 00-0291 EA FDU & Splice Cassette with LC connector type (Corning CCH-01U, CCH-CS12-B3-P00RE).....	1,263.00	111.18
34 41 13 00-0292 EA 12" THREE SECTION HOUSING (McCain M22435).....	868.45	74.12
34 41 13 00-0293 EA 12" FOUR SECTION HOUSING (McCain M30883).....	1,122.61	111.18
34 41 13 00-0294 EA 12" FIVE SECTION HOUSING (McCain M31769).....	1,302.66	111.18
34 41 13 00-0295 EA 12" CLUSTER, WITHOUT MAS (McCain M30987).....	1,392.68	111.18
34 41 13 00-0296 EA CMU DATAKEY PROGRAMMER, EDI MONITORKEY-USB (McCain M84650).....	868.45	74.12
34 41 13 00-0297 EA NAVIGATOR iN2 APS 2 WIRE PPB #IN250N0-B (Polara iN250N0-B).....	868.45	74.12
34 41 13 00-0298 EA NAVIGATOR iN2 CONTROLLER RACK MOUNT iCCU-C (Polara iCCU-C).....	5,020.10	259.43
34 41 13 00-0299 EA NAVIGATOR iN2 INTERCONNECT BOARD iN2-ICB-C (Polara iN2-ICB-C).....	254.17	37.06
34 41 13 00-0300 EA NAVIGATOR iN2 POWER SUPPLY iN2-150-WPS-C (Polara iN2-150-WPS-C).....	254.17	37.06
34 41 13 00-0301 EA NAVIGATOR iN2 CONNECTOR iN2-C4CABLE-C (Polara iN2-c4cable-C).....	561.30	55.59
34 41 13 00-0302 EA 12" Visor (McCain M19302).....	47.65	14.83
34 41 13 00-0303 EA LS,2202-HV (iPack), HDSP/FLASHER UNIT,ATC (McCain M36256).....	471.28	55.59
34 41 13 00-0304 EA SIU,2218 SERIAL INTERFACE UNIT,ATC (McCain M36258).....	778.43	74.12
34 41 13 00-0305 EA CMU,2212-HV (ip),32 CH W/ ETHERNET PORT, ATC (McCain M36259).....	1,437.70	111.18
34 41 13 00-0306 EA ATCC-HV, INPUT ASSEMBLY, 24 CH W/ CONN IDC26 (McCain M54487).....	778.43	74.12
34 41 13 00-0307 EA HARN, SB1/SB2,COMM EXTENSION (McCain M48062).....	164.14	37.06
34 41 13 00-0308 EA ATCC-HV/LV, FITA ASSEMBLY, 24CH (McCain M54489).....	471.28	55.59
34 41 13 00-0309 EA CMU DATAKEY PROGRAMMER, EDI MONITORKEY-USB (McCain M84650).....	868.45	74.12
34 41 13 00-0310 EA 242L ISOLATOR, EDI (McCain M56812).....	164.14	37.06
34 41 13 00-0311 EA EDI 222 DETECTOR (McCain M11407).....	209.16	37.06
34 41 13 00-0312 EA ALPHA BBS, INVERTER & BYPASS SWITCH (McCain M59763).....	3,431.46	185.30
34 41 13 00-0313 EA GENERATOR SWITCH AND PLUG ASS'Y FOR ALPHA BBS (McCain M68752-2).....	580.37	74.12
34 41 13 00-0314 EA BBS BATTERY, ALPHACELL 165GXL (McCain M59884).....	778.43	74.12
34 41 13 00-0315 EA Battery Backup Cabinet Anonidize 44x26x12 (McCain M64438A).....	1,617.75	111.18

34 41 16 Traffic Control Equipment (34 41)**34 41 16 00-0001 Transportation Control Equipment** (34 41 16)



Transportation			34
Transportation Signaling and Control Equipment			34 40
Roadway Signaling and Control Equipment			34 41

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MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
34 41 16 00-0002	EA	CONTROLLER/SL/POLE MTD/1-PHASE/100A	9,875.21		1,108.01
34 41 16 00-0003	EA	CONTROLLER/SL/ON EMB POLE 1-PH/100A.....	10,002.85		1,171.81
34 41 16 00-0004	EA	CONTROLLER, SL, 3-PHASE, 100A, BASE MTD.....	12,103.37		1,185.60
34 41 16 00-0005	EA	CONTROLLER, SL, 3-PHASE, 200A, BASE MTD.....	14,398.89		1,439.51
34 41 16 00-0006	EA	CONTROLLER/SL/BASE MTD/1-PHASE/100A.....	11,666.74		710.14
34 41 16 00-0007	EA	CONTROLLER/SL/BASE MTD/1-PHASE/200A.....	12,931.45		777.47
34 41 16 00-0008	EA	CONTROLLER, TS, 12-BAY, "M" CABINET.....	21,278.99		1,222.30
34 41 16 00-0009	EA	CONTROLLER, TS, 12-BAY, "P" CABINET.....	22,667.92		1,354.56
34 41 16 00-0010	EA	CONTROLLER, TS, 12-BAY "P" CABINET With FO MASTER.....	32,281.19		1,522.88
34 41 16 00-0011	EA	CONTROLLER, TS, 16-BAY, "P" CABINET.....	25,655.35		1,442.73
34 41 16 00-0012	EA	CONTROLLER, PEDESTRIAN CROSSING, ADD-IN.....	802.57		169.44
34 41 16 00-0013	EA	CONCRETE BLOCK PEDESTAL.....	977.68		254.40
34 41 16 00-0014	WK	MAINTAIN EXIST TS INSTALLATION	411.80		205.89
34 41 16 00-0015	EA	INST SIGN BOARDS, ST. NAME.....	703.58		335.51
34 41 16 00-0016	EA	F.O. ADD-IN FOR LOCAL CONTROLLER.....	10,765.41		463.65
34 41 16 00-0017	EA	F.O. ADD-IN FOR MASTER CONTROLLER.....	25,847.81		695.68
34 41 16 00-0018	EA	PDU Equipped netBooster With IEC320 C13 Outlets (Synaccess NP-0808DUH).....	1,036.57		19.30
34 41 16 00-0019	EA	Remote Power Switched netBooster PDU, 8 Independent Outlets (Synaccess NP-0801DU)	591.60		19.30
34 41 16 00-0020	Transportation Cabinets (34 41 16)				
34 41 16 00-0021	Transportation Cabinets (Dudlik Enclosures) (34 41 16 00-0020)				
34 41 16 00-0022	EA	50" x 30" x 17", Aluminum CCTV Cabinet (Dudlik Enclosures)	2,789.54		222.36
34 41 16 00-0023	EA	66" x 48" x 30", Quad Door, 19" Racks, Aluminum CCTV Cabinet (Dudlik Enclosures)	11,676.18		222.36
34 41 16 00-0024	EA	46" x 30" x 20", 19" Rack, Aluminum TTS Cabinet (Dudlik Enclosures)	2,612.20		222.36
34 41 16 00-0025	EA	50" x 30" x 17", Aluminum ITS Controller Cabinet (Dudlik Enclosures)	2,789.54		222.36
34 41 16 00-0026	EA	60" x 50" x 36", Quad Door, 19" Racks, Aluminum Fiber Cross Connect Cabinet (Dudlik Enclosures).....	12,070.27		222.36
34 41 16 00-0027	EA	55" x 16" x 17", Aluminum ITS Meter Cabinet (Dudlik Enclosures)	1,824.03		222.36
34 41 16 00-0028	Transportation Cabinets (APX Enclosures) (34 41 16 00-0020)				
34 41 16 00-0029	EA	28" Wide, 16" Depth, 46" High, ITS Controller Cabinet (APX Enclosure LS503017)	6,713.98		259.43
Note: 3R, single door, pad mounted aluminum enclosure. Includes natural finish, aluminum back panel, light kit with door switch, thermostatically controlled fan kit, heater kit with thermostat, one aluminum moveable shelf, and one aluminum moveable shelf with slide out drawer. Excludes pad.					
34 41 16 00-0030	Transportation Cabinets (Transportation Control Systems) (34 41 16 00-0020)				
34 41 16 00-0031	EA	30" Wide, 16" Depth, 48" High, Type 4, Aluminum Transportation Cabinet With Door Vents (Transportation Control Systems B483016B2D2S)	2,634.82		222.36
34 41 16 00-0032	EA	30" Wide, 16" Depth, 60" High, Type 4 Stretch, Aluminum Transportation Cabinet With Door Vents (Transportation Control Systems B603016B2D2S)	3,272.83		237.19
34 41 16 00-0033	Transportation Cabinets (McCain) (34 41 16 00-0020)				
34 41 16 00-0034	EA	24" Wide, 30" Depth, 67" High, ATC Cabinet (McCain 352i)	12,178.17		259.43
Note: 3R, single door, pad mounted anodized aluminum enclosure. Excludes pad.					
34 41 16 00-0035	EA	24" Wide, 30" Depth, 67" High, ATC Cabinet (McCain 332)	12,178.17		259.43
Note: 3R, single door, pad mounted anodized aluminum enclosure. Excludes pad.					
34 41 16 00-0036	EA	ATC ColdFire Controller (McCain 170)	6,291.12		
34 41 16 00-0037	Traffic Control Equipment (34 41 16)				
34 41 16 00-0038	EA	ProStar PWM Charge Controller 12/24 Volt, 15 Amperes Without Display (Morningstar PS-15)	332.38		74.12
34 41 16 00-0039	EA	ProStar PWM Charge Controller 12/24 Volt, 15 Amperes With Display (Morningstar PS-15M)	432.15		74.12
34 41 16 00-0040	EA	ProStar PWM Charge Controller 12/24 Volt, 30 Amperes With Display (Morningstar PS-30M)	495.52		74.12
34 41 16 00-0041	EA	ProStar PWM Charge Controller 12/24 Volt, 30 Amperes Without Display (Morningstar PS-30)	387.78		74.12
34 41 16 00-0042	MLF	10 AWG, 2 Conductor, 600V, Type TC, Non-Shielded Control Tray Cable (EnerSys A51002R)	3,078.21		812.71
34 41 16 00-0043	EA	Vehicle Detector, Circuit Breaker, 0.2 Amperes, Wavetronix SmartSensor (Wavetronix WX-CLK-210-02)	134.96		37.06
34 41 16 00-0044	EA	Vehicle Detector, 2.4 GHz 12 dBi Omni Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0141)	587.69		80.92
34 41 16 00-0045	EA	Detection System, Vehicle, Two Sensor Preamsembled Backplate, with AC Power (Wavetronix WX-SSB01-0003).....	3,040.62		242.75
34 41 16 00-0046	EA	Vehicle Detector, Power Supply, 24 Volt DC, 4 Amperes (Wavetronix WX-CLK-204).....	550.67		37.06
34 41 16 00-0047	EA	Vehicle Detector, 4-Channel Contact Matrix Closure, Rack Card (Wavetronix WX-CLK-114)	783.87		37.06
34 41 16 00-0048	EA	4 Channel Din-Rail Contact Closure Module (Wavetronix WX-CLK-104).....	908.70		74.12
34 41 16 00-0049	EA	Detection System, Vehicle, Four Sensor Preamsembled Backplate, With AC Power, Wavetronix SmartSensor (Wavetronix WX-SS-B01-0005).....	3,920.08		74.12
34 41 16 00-0050	EA	50' Wavetronix Wiring Whip (Wavetronix WX-SS-708-060).....	485.51		242.75
34 41 16 00-0051	EA	60', 6-Conductor Power And Communication Cable With Connector (Wavetronix WX-SS-704-060).....	577.65		60.69
34 41 16 00-0052	EA	900 MHz 5 dBi Omni Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0119)	506.58		80.92
34 41 16 00-0053	EA	900 MHz 9 dBi Yagi Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0120)	324.07		80.92
34 41 16 00-0054	EA	Wavetronix Click 201 AC To DC Power Converter (Wavetronix WX-CLK-201).....	347.88		37.06
34 41 16 00-0055	EA	24 Volt DC 2 Amperes, Wavetronix SmartSensor (Wavetronix WX-CLK-202).....	418.86		37.06
34 41 16 00-0056	EA	Coax Surge N-Type, Wavetronix SmartSensor (Wavetronix WX-CLK-250).....	195.79		37.06
34 41 16 00-0057	EA	Power, RS232/RS485 Surge, Wavetronix SmartSensor (Wavetronix WX-CLK-200).....	560.81		37.06
34 41 16 00-0058	EA	Two Sensor Surge, Wavetronix SmartSensor (Wavetronix WX-CLK-222).....	631.78		37.06
34 41 16 00-0059	EA	RS232 to RS485 Converter, Wavetronix SmartSensor (Wavetronix WX-CLK-304).....	783.87		37.06
34 41 16 00-0060	EA	Wavetronix Click 301 Serial To Ethernet Converter (Wavetronix CLK-301).....	74.12		37.06
34 41 16 00-0061	EA	Sensor Mount, Heavy Duty, 6 inch, 2 Axis Aluminum Bracket (Wavetronix WX-SS-611).....	516.72		80.92
34 41 16 00-0062	MLF	LF, UV Resistant Polyethylene Jacketed Cable (Times Microwave Systems LMR-400)	3,585.17		812.71
34 41 16 00-0063	EA	N-Male (Plug) Clamp Connector (Times Microwave Systems TC-400-NMC).....	66.78		22.24

34 Transportation**34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0064 EA Spectra IV SE Back Box, Heavy-Duty, Pendant Mount (Pelco BB4HD-PG-E)	1,034.28	88.95
34 41 16 00-0065 EA Spectra III Clear Pendant Lower Dome, Heavy Duty (Pelco Id53hdpb-1)	1,011.10	111.18
34 41 16 00-0066 EA 24" Height, Ceiling/Pedestal Mount For Pan/Tilts Or Enclosures (Pelco pm2000)	230.46	37.06
34 41 16 00-0067 EA 10" Height, Ceiling/Pedestal Mount For Pan/Tilts Or Enclosures (Pelco pm2010)	171.09	37.06
34 41 16 00-0068 EA 24 Volt AC, Remote Data Port (Pelco IPS-RDPE-2)	533.61	37.06
34 41 16 00-0069 EA Spectra IV Remote Monitor Interface Cable (Pelco IPS-CABLE)	228.14	37.06
34 41 16 00-0070 EA 120 Volt AC, 12.5 Watt, 12 Volt DC, 600 mA, External Plug In Power Supply (Triad Magnetics WDU12-600)	97.20	37.06
34 41 16 00-0071 EA Control Area Network Direct Current Input/Output (Daktronics 0P-1247-0009)	756.61	74.12
Note: Input/Output for sign peripherals.		
34 41 16 00-0072 EA Control Area Network Direct Current Input/Output (Daktronics 0P-1247-4009)	756.61	74.12
Note: Input/Output for sign peripherals.		
34 41 16 00-0073 EA Control Area Network Distribution Board (Daktronics 0P-1248-0005)	1,415.67	74.12
Note: Signal distribution point between sign modules and peripherals, and VFC-3000 Field Controller.		
34 41 16 00-0074 EA Control Area Network Distribution Board (Daktronics 0P-1248-0011)	1,415.67	74.12
Note: Signal distribution point between sign modules and peripherals, and VFC-3000 Field Controller.		
34 41 16 00-0075 EA Control Area Network Temperature And Light Sensor (Daktronics 0P-1247-0019)	492.99	74.12
Note: Measures temperature and detects light and reports to CAN Dist Board.		
34 41 16 00-0076 EA Control Area Network Temperature, Light Sensor, And Humidity (Daktronics 0P-1247-0015)	695.77	74.12
Note: Measures temperature and detects light and humidity and reports to CAN Dist board.		
34 41 16 00-0077 EA Control Area Network Temperature, Light Sensor, And Humidity (Daktronics 0P-1247-0021)	695.77	74.12
Note: Measures temperature and detects light and humidity and reports to CAN Dist board.		
34 41 16 00-0078 EA Control Area Network Temperature And Light Sensor (Daktronics 0P-1247-0003)	574.10	74.12
Note: Measures temperature and detects light and reports to CAN Dist board.		
34 41 16 00-0079 EA Controller, VFC-3000 Field Controller NTCIPV1 (Daktronics 0A-1248-0016)	9,718.36	296.49
Note: The "brains" of the sign. Receives information from NTCIP central software and reports status and diagnostic information.		
34 41 16 00-0080 EA DC/DC, Direct Current to Direct Current Converter (Daktronics 0P-1247-0025)	418.86	37.06
Note: Takes 24 Volt DC input from two power supplies and outputs 9 Volt DC for CAN Dist Board, providing power redundancy.		
34 41 16 00-0081 EA Driver (Daktronics 0P-1100-0026)	787.79	59.30
Note: Driver takes data packets from Control Area Network to determine what pixels (LED clusters) are ON and which are OFF.		
34 41 16 00-0082 EA External Temp Sensor (Daktronics 0P-1100-0014)	696.53	59.30
Note: Sensor that measures ambient temperature.		
34 41 16 00-0083 EA Internal Temp Sensor (Daktronics 0P-1100-0038)	777.65	59.30
Note: Sensor that measures sign internal temperature.		
34 41 16 00-0084 EA Light Level Detector (Daktronics 0P-1151-0002)	473.47	59.30
Note: The values from the light sensors are used by the sign controller to determine the appropriate sign brightness.		
34 41 16 00-0085 EA Module (Daktronics 0A-1253-0608)	1,415.67	74.12
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0086 EA Module (Daktronics 0A-1253-3018)	1,770.54	74.12
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0087 EA Module (Daktronics 0A-1266-5002)	1,567.76	74.12
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0088 EA Module (Daktronics 0A-1332-6252)	2,176.11	74.12
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0089 EA Module (Daktronics 0A-1332-6455)	1,770.54	74.12
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0090 EA Module (Daktronics 0A-1332-6654)	1,770.54	74.12
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0091 EA Module (Daktronics 0P-1332-3015)	959.40	74.12
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0092 EA Module (Daktronics 0P-1332-4116)	959.40	74.12
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0093 EA Module (Daktronics 0P-1332-5031)	959.40	74.12
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0094 EA Module (Daktronics 0P-1332-5017)	959.40	74.12
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.		
34 41 16 00-0095 EA Module Without Pan (Daktronics 0A-1253-0603)	1,415.67	74.12
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign).		
34 41 16 00-0096 EA Module Without Pan (Daktronics 0A-1253-1605)	1,415.67	74.12
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign).		
34 41 16 00-0097 EA Module Without Pan (Daktronics 0A-1254-1601)	1,415.67	74.12
Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign).		
34 41 16 00-0098 EA Pixel Strip (Daktronics 0P-1100-0016)	503.13	74.12
Note: Pixel Strip is a smaller section of a module. Typically has three pixels (LED clusters) per strip.		
34 41 16 00-0099 EA Pixel Strip (Daktronics 0P-1100-0029)	584.24	74.12
Note: Pixel Strip is a smaller section of a module. Typically has three pixels (LED clusters) per strip.		
34 41 16 00-0100 EA Power Supply (Daktronics A-1593)	1,669.15	74.12
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0101 EA Power Supply (Daktronics A-1648)	1,669.15	74.12
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0102 EA Power Supply (Daktronics A-2307)	655.22	74.12
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0103 EA Surge Suppressor (Daktronics A-1129)	271.46	44.47
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0104 EA Surge Suppressor (Daktronics A-1412)	545.22	44.47
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0105 EA Surge Suppressor (Daktronics A-1772)	545.22	44.47
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		



		Transportation	34
		Transportation Signaling and Control Equipment	34 40
		Roadway Signaling and Control Equipment	34 41

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0106 EA Surge Suppressor (Daktronics A-2139).....	798.70	44.47
Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.		
34 41 16 00-0107 EA VCB, Vanguard Control Board (Daktronics 0P-1248-0022).....	1,354.83	74.12
Note: Receives high speed serial communication over fiber or CAT5 from VFC-3000 and reports sign status and peripheral diagnostics.		
34 41 16 00-0108 EA VMS I/O, Variable Message Sign Input/Output (Daktronics 0P-1194-0001).....	1,821.24	74.12
Note: Input/Output board for sign peripherals.		
34 41 16 00-0109 EA Power Supply Assembly (Daktronics A-1856R).....	1,212.88	74.12
34 41 16 00-0110 EA Power Supply Isolation Board (Daktronics 0P-1447-2000).....	807.31	74.12
34 41 16 00-0111 EA Ventilation/Circulation Fan (Daktronics B-1075).....	320.62	74.12
34 41 16 00-0112 EA VMS Controller (V2) (Daktronics 0A-1248-0028).....	9,718.36	296.49
34 41 16 00-0113 EA Photo/Temp Sensor (Daktronics 0P-1247-0015).....	695.77	74.12
34 41 16 00-0114 EA Defog Fan (Daktronics B-1053).....	124.82	37.06
34 41 16 00-0115 EA Defog Heater (Daktronics A-1792).....	155.23	37.06
34 41 16 00-0116 EA Display Card 1500, 15' Clear (Ver-Mac PB-AFF-06023A-03 PF).....	908.70	74.12
34 41 16 00-0117 EA Display Card 1500, 30' Amber (Ver-Mac PB-AFF-06023-01 PF).....	908.70	74.12
34 41 16 00-0118 EA 1-Port Decoder With H.264 And High-Definition Technology (Verint S1801E-R).....	1,175.64	74.22
34 41 16 00-0119 EA 1-Port Video Encoder Featuring H.264 Technology With One Bi-directional Audio Channel And 12V DC Universal Power Supply (Verint S1801E).....	1,175.64	74.22
34 41 16 00-0120 EA 16-Port Video Encoder Featuring H.264 Technology (Verint S1816E).....	6,233.89	74.22
34 41 16 00-0121 EA Encoder H.264 Compact, Hiperfmc (Verint S1802E).....	1,510.55	74.22
34 41 16 00-0122 EA 110 Volt AC To 12 Volt DC At 45 Watt, Transformer (Verint PS1261).....	216.21	37.06
34 41 16 00-0123 EA 1-Channel Encoder, H.264 Dual-Streaming, SD Card Slot (Bosch VIP-X1XF-E).....	735.50	74.22
34 41 16 00-0124 EA Single/Quad-Stream Decoder (Bosch VIP-XD).....	1,873.07	74.22
34 41 16 00-0125 EA 1-Output, Outdoor-Rated CCTV Power Supply Unit, 24/26/28 Volt AC (Pelco WCS1-4).....	320.35	74.12
34 41 16 00-0126 EA 4-Outputs, Outdoor-Rated CCTV Power Supply With Circuit Breaker, 24/28 Volt AC (Pelco WCS4-20B).....	671.55	74.12
34 41 16 00-0127 EA 12.5KVA, 12 Volt, 75Ah, UPS Battery (UPG UB12750).....	288.01	18.56
34 41 16 00-0128 EA Managed Ethernet Switch with 4 10/100TX Ports + 4 100FX Fiber Ports (EtherWAN EX71440-B0B).....	3,601.50	148.25
34 41 16 00-0129 EA Power Supply, Hardened, External 100-240 Volt AC Input; TS2 rated; 12 Volt DC Output Power (EtherWAN 41-136046-1).....	234.31	37.06
34 41 16 00-0130 EA 4kVA / 3.6kW Split-Phase Power Module (Eaton 9PXMSPPM).....	3,246.21	74.12
34 41 16 00-0131 EA 208-240 Volt, 4-20kVA Rack/Tower UPS (Eaton 9PXM).....	7,769.12	366.90
34 41 16 00-0132 EA 30 Amperes, 600 Volt, 3-Pole, Fusible, NEMA 3R Rainproof, Safety Switch (Square D H361RB).....	1,070.57	192.72
34 41 16 00-0133 EA 30 Amperes, 600 Volt, LKS Fuse (Eaton Bussmann LKS-30).....	29.38	11.86
34 41 16 00-0134 EA 60 Amperes, 600 Volt, 3-Pole, Fusible, Heavy Duty, Safety Switch (Square D H362DS).....	2,696.49	148.25
34 41 16 00-0135 EA 60 Amperes, 600 Volt, Dual Element, Time-Delay Fuse (Eaton Bussmann FRS-R-60).....	60.16	11.86
34 41 16 00-0136 EA 50 Mbps, MiMO 2x2, 15 dBi Integrated Antenna (Proxim Wireless TSUNAMI QB-820).....	2,370.38	80.92
34 41 16 00-0137 EA Singlemode Loaded Fiber Adapter Panel, 6 Simplex SC/UPC Adapters (Multi-Link 10-4810).....	149.13	56.33
34 41 16 00-0138 EA 12" x 6" x 5-1/2", 2 Panel, 2 Splice Dual Security Door, Compact Wall Mount Fiber Distribution Unit (Multilink 10-4469).....	396.52	74.12
34 41 16 00-0139 EA Single AC Inlet, 8 Nema 5-15 Outlets, Built-in AC Current Drawing Sensing Module (Synaccess NP-0801DT).....	665.68	19.30
34 41 16 00-0140 EA Aggregated TRMS AC Current Sensing, One Readout For All Outlets (Synaccess NP-0801DT(H)).....	716.91	19.30
34 41 16 00-0141 EA 550 Watt, 120 Volt AC, Fan Heater With Adjustable Thermostat, 32-140 Degree Fahrenheit (Stego CR-027).....	387.77	29.65
34 41 16 00-0142 EA 10/100M Switch, 4 x 1G Combo, LAN Base (Cisco IE-4000-4TC4G-E).....	4,656.37	177.89
34 41 16 00-0143 EA 12 Port, 2 Panel, Wall Mount, Compact Fiber Distribution Unit (Multilink FWM012XLC).....	180.29	34.09
34 41 16 00-0144 EA 6-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel (Multilink MSC-06-SM-C-BLK).....	45.54	7.41
34 41 16 00-0145 EA 170 Watt AC To DC, Industrial Ethernet Family Power Supply (Cisco PWR-IE170W-PC-AC).....	1,453.27	74.12
34 41 16 00-0146 EA 12 Port, Industrial Ethernet Layer 3 Switch Installed In Transportation Control Equipment (Cisco IE-4000-4GC4GP4G-E).....	5,029.41	148.25
34 41 16 00-0147 EA 2 KVA, 1,800 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line Uninterruptible Power Supply (UPS) (Xtreme Power P90-3000).....	3,472.22	244.60
34 41 16 00-0148 EA 100 Amperes, 16 Circuit, Main Lug Load Center Panelboard, 8-1 AWG, 120/240 Volt, Single Phase (Square D QO816L100DS).....	934.83	423.98
34 41 16 00-0149 EA 70 Amperes, 4 Circuit, Main Lug Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase (Square D QO24L70S).....	652.06	296.49
34 41 16 00-0150 EA 60 Amperes, 120/240 Volt, 2 Pole Common Trip Miniature Circuit Breaker, Plug On Mounting (Square D QO260).....	128.34	40.02
34 41 16 00-0151 EA 15 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QOT1515).....	95.73	26.69
34 41 16 00-0152 EA 15 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QO120).....	77.41	26.69
34 41 16 00-0153 EA 20 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QO120).....	77.41	26.69
34 41 16 00-0154 EA One Output Outdoor-rated CCTV Power Supply Unit, 24/26/28 Volt AC At 4 Amperes Total Supply Current, Fuse Protected Output, UL Listed (Pelco WCS1-4).....	320.35	74.12
34 41 16 00-0155 EA DIN Rail Mount, Switching Power Supply (TKH Security PSR12DC).....	325.25	37.11
34 41 16 00-0156 EA H.264 Multi-codec Video Encoder With Audio, Data And CC's (TKH Security C-60-E-MC).....	2,933.85	37.11
34 41 16 00-0157 EA Expansion Power Module For IE-3000-4TC And IE-3000-8TC (Cisco PWR-IE50W-AC-IEC).....	573.91	19.30
34 41 16 00-0158 EA Traffic Monitoring System (BlueToad Spectra Cellular/Solar Version).....	11,756.37	242.75
34 41 16 00-0159 EA Ubiquiti Rocket M9 Wireless Access Point (ROCKETM9).....	471.10	80.92

34 70 Transportation Construction and Equipment⁽³⁴⁾

34 71 Roadway Construction^(34 70)

34 71 13 Vehicle Barriers^(34 71)

34 71 13 13 Vehicle Median Barriers^(34 71 13)

34 71 13 13-0001 Concrete Median Barrier^(34 71 13 13)

34 71 13 13-0002 LF Median Barrier, Precast, 42" High Single Face.....	85.77	4.04
34 71 13 13-0003 LF Median Barrier, Precast, 32" High, 2' Wide Base, Double Face.....	114.11	4.04
34 71 13 13-0004 LF Median Barrier, Precast, 42" High, 2' Wide Base, Double Face.....	144.21	4.04

34 Transportation**34 70 Transportation Construction and Equipment****34 71 Roadway Construction**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 13-0005	LF	Median Barrier, Cast In Place With Steel Forms.....	56.89	6.57
34 71 13 13-0006	LF	Median Barrier, Slipformed Concrete.....	46.93	3.30
34 71 13 16 Vehicle Crash Barriers (34 71 13)				
34 71 13 16-0001		Impact Barrier, Non-Redirective (34 71 13 16)		
34 71 13 16-0002		Sand Barrel Impact Attenuator (34 71 13 16-0001)		
		Note: Includes containers, inserts, and lid. Excludes sand.		
34 71 13 16-0003	EA	200, 400 Or 700 LB Sand Barrel.....	573.78	49.40
		Note: Includes containers, inserts, and lid.		
34 71 13 26 Vehicle Guide Rails (34 71 13)				
34 71 13 26-0001		Mobilize Guide Rail Crew (34 71 13 26)		
34 71 13 26-0002	EA	Mobilize Guide Rail Crew.....	1,192.58	
		Note: Excludes equipment mobilization.		
34 71 13 26-0003		Corrugated Beam Guide Rail (34 71 13 26)		
34 71 13 26-0004		Corrugated Beam Guide Railing (34 71 13 26-0003)		
34 71 13 26-0005		Corrugated Beam Guide Railing, Straight Sections (34 71 13 26-0004)		
		Note: Add additional length for back-up sections.		
34 71 13 26-0006	LF	Corrugated Beam Guide Railing.....	17.99	2.13
34 71 13 26-0007	LF	Corrugated Beam Guide Railing (Rustic).....	19.42	2.13
34 71 13 26-0008		Corrugated Beam Guide Railing, Shop Curved (34 71 13 26-0004)		
		Note: Add additional length for back-up sections.		
34 71 13 26-0009	LF	Shop Curved Corrugated Beam Guide Railing.....	23.60	2.13
34 71 13 26-0010	LF	Shop Curved Corrugated Beam Guide Railing (Rustic).....	25.57	2.13
34 71 13 26-0011	LF	Shop Curved Corrugated Beam Guide Railing End.....	60.99	2.13
		Note: Treatment for mall barriers driveways, walkways, special end, etc.		
34 71 13 26-0012	LF	Shop Curved Corrugated Beam Guide Railing (Rustic) End.....	66.58	2.13
		Note: Treatment for mall barriers shop curved corrugated beam guide railing end etc.		
34 71 13 26-0013		Corrugated Beam Guide Railing, Manufactured End Sections (34 71 13 26-0003)		
34 71 13 26-0014	EA	Corrugated Beam Guide Railing End Section At Anchor Unit.....	134.20	28.11
34 71 13 26-0015	EA	Corrugated Beam Guide Railing End Section (Rustic) At Anchor Unit.....	141.84	28.11
34 71 13 26-0016	EA	Corrugated Beam Guide Railing Flared Or 180 Degree End Section.....	180.01	28.11
34 71 13 26-0017	EA	Corrugated Beam Guide Railing Flared Or 180 Degree End Section (Rustic).....	187.64	28.11
34 71 13 26-0018	EA	Corrugated Beam Guide Railing 225 Degree End Section.....	180.01	28.11
34 71 13 26-0019	EA	Corrugated Beam Guide Railing 225 Degree End Section (Rustic).....	187.64	28.11
34 71 13 26-0020		Corrugated Beam Guide Rail End Terminal Systems (34 71 13 26-0003)		
		Note: Excludes post. As manufactured and distributed by R. G. Steel Corp.		
34 71 13 26-0021	EA	Regent Flared End Terminal Head With Bracket, Type B & C.....	4,630.55	180.63
34 71 13 26-0022	EA	Fleat Flared End Terminal Head With Bracket.....	3,867.12	180.63
34 71 13 26-0023	EA	SKT 350 Tangent End Terminal Head With Bracket.....	4,630.55	180.63
34 71 13 26-0024	EA	12'-6" Corrugated Beam Pre-drilled #1 Panel.....	686.10	85.15
34 71 13 26-0025	EA	Terminal Support System, Type SFT.....	952.85	227.67
34 71 13 26-0026	EA	Terminal Support System, Type ET.....	4,711.70	644.36
34 71 13 26-0027	EA	Terminal Support System, Type SRT.....	5,117.82	644.36
34 71 13 26-0028		Corrugated Beam Guide Rail Posts (34 71 13 26-0003)		
		Note: Includes mounting hardware.		
34 71 13 26-0029	EA	Standard Post For Corrugated Beam Guide Rail.....	142.13	14.98
		For Installation Without Soil Plate, Deduct.....	-5.00	
		For Installation In Rock, Add.....	4.00	
34 71 13 26-0030	EA	Standard Post For (Rustic) Corrugated Beam Guide Rail.....	149.76	14.98
		For Installation Without Soil Plate, Deduct.....	-5.00	
		For Installation In Rock, Add.....	4.00	
34 71 13 26-0031	EA	Extra Long Post For Corrugated Beam Guide Rail.....	157.40	14.98
		For Installation Without Soil Plate, Deduct.....	-5.00	
		For Installation In Rock, Add.....	4.00	
34 71 13 26-0032	EA	Extra Long Post (Rustic) for Corrugated Beam Guide Rail.....	165.03	14.98
		For Installation Without Soil Plate, Deduct.....	-5.00	
		For Installation In Rock, Add.....	4.00	
34 71 13 26-0033	EA	6B8-1/2" or Mall Barrier Post for Corrugated Beam Guide Rail.....	142.13	14.98
		For Installation Without Soil Plate, Deduct.....	-5.00	
		For Installation In Rock, Add.....	4.00	
34 71 13 26-0034	EA	Post Struts for Corrugated Beam Guide Rail Mall Barrier Post.....	203.20	14.98
		For Installation In Rock, Add.....	4.00	
34 71 13 26-0035		Heavy Post Blocked Out Corrugated Beam Guide Rail Posts (34 71 13 26-0003)		
		Note: Includes mounting hardware. Excludes triangular mounting brackets.		



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		Transportation Construction and Equipment	34 70
		Roadway Construction	34 71

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0036 EA Standard Post For Heavy Post Blocked Out Corrugated Beam Guide	142.13	14.98
34 71 13 26-0037 EA Standard Rustic Post For Heavy Post Blocked Out Corrugated Beam Guide	149.76	14.98
34 71 13 26-0038 EA Extra Long Post for Heavy Post Blocked Out Corrugated Beam Guide.....	157.40	14.98
34 71 13 26-0039 EA Extra Long Post (Rustic) For heavy post blocked out corrugated beam guide rail.....	165.03	14.98
Note: For heavy post blocked out corrugated beam guide (rustic)		
34 71 13 26-0040 EA Type A Post 1630mm Post	138.31	14.98
Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0041 EA Type A Post 1630mm Post (Rustic).....	145.95	14.98
Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0042 EA Type B Post 1460mm	130.68	14.98
Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0043 EA Type B Post 1460mm (Rustic).....	138.31	14.98
Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0044 EA Type C Post 1290mm	123.04	14.98
Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0045 EA Type C Post 1290mm (Rustic).....	130.68	14.98
Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0046 EA Breakaway Wood Or Steel Post In Steel Foundation Tube	525.07	14.98
34 71 13 26-0047 EA Wood, Metal, Plastic Or Composite Offset Block Or Beam	58.15	14.98
Note: For heavy post blocked out corrugated beam guide rail.		
34 71 13 26-0048 Corrugated Beam Guide Rail Accessories (34 71 13 26-0003)		
34 71 13 26-0049 EA Triangular Mounting Brackets (Galvanized Or Rustic) For All Post Types A, B And C.....	118.93	31.94
34 71 13 26-0050 Corrugated Beam Guide Rail Repair for Existing Guide Rail (34 71 13 26-0003)		
Note: Includes associated hardware.		
34 71 13 26-0051 LF Removal And Storage Of Corrugated Beam Guide Railing And Post.....	12.48	
34 71 13 26-0052 EA Install Stored Post For Corrugated Beam Guide Rail	42.59	
34 71 13 26-0053 LF Install Stored Corrugated Beam Guide Railing And Post.....	7.24	
34 71 13 26-0054 Corrugated Thrie Beam Guide Railing (34 71 13 26-0003)		
34 71 13 26-0055 Corrugated Thrie Beam Guide Railing. Straight Sections (34 71 13 26-0054)		
Note: Add additional length for back-up sections.		
34 71 13 26-0056 LF Corrugated Thrie Beam Guide Railing.....	42.56	2.68
34 71 13 26-0057 LF Corrugated Thrie Beam Guide Railing (Rustic).....	44.88	2.68
34 71 13 26-0058 Corrugated Thrie Beam Guide Railing. Shop Curved (34 71 13 26-0054)		
Note: Add additional length for back-up sections.		
34 71 13 26-0059 LF Shop Curved Corrugated Thrie Beam Guide Railing.....	51.86	2.68
34 71 13 26-0060 LF Shop Curved Corrugated Thrie Beam Guide Railing (Rustic).....	54.19	2.68
34 71 13 26-0061 Corrugated Thrie Beam Guide Rail Posts (34 71 13 26-0054)		
Note: Includes hardware for mounting.		
34 71 13 26-0062 EA Standard Post For Corrugated Thrie Beam Guide Rail.....	171.53	2.68
For Installation Without Soil Plate, Deduct	-5.00	
For 32" Soil Plate, Add	7.00	
34 71 13 26-0063 EA Standard Post (Rustic) For Corrugated Thrie Beam Guide Rail	179.17	2.68
For Installation Without Soil Plate, Deduct	-5.00	
For 32" Soil Plate, Add	7.00	
34 71 13 26-0064 Timber Guide Rails (34 71 13 26)		
Note: Includes drilling and fasteners. Excludes excavation, auguring and concrete.		
34 71 13 26-0065 Timber Guide Rail Posts (34 71 13 26-0064)		
34 71 13 26-0066 EA 6" x 8" Timber Guide Rail Post	108.95	10.64
34 71 13 26-0067 EA 6" x 9" Timber Guide Rail Post	124.81	10.64
34 71 13 26-0068 EA 10" x 10" Timber Guide Rail Post	249.11	10.64
34 71 13 26-0069 EA 10" x 12" Timber Guide Rail Post	263.93	10.64
34 71 13 26-0070 EA 12" x 12" Timber Guide Rail Post	306.18	10.64
34 71 13 26-0071 Timber Guide Rails (34 71 13 26-0064)		
Note: Excludes posts, spacer blocks and steel backup plates.		
34 71 13 26-0072 LF 4" x 9" Timber Guide Rail.....	13.54	1.28
34 71 13 26-0073 LF 6" x 10" Timber Guide Rail.....	19.25	1.28
34 71 13 26-0074 LF 6" x 12" Timber Guide Rail.....	22.59	1.28
34 71 13 26-0075 Spacer Blocks For Timber Guide Rails (34 71 13 26-0064)		
34 71 13 26-0076 EA 4" x 9" Spacer Block For Timber Guide Rails	17.61	1.71
34 71 13 26-0077 EA 6" x 8" Spacer Block For Timber Guide Rails	20.36	1.71
34 71 13 26-0078 EA 8" x 8" Spacer Block For Timber Guide Rails	23.84	1.71
34 71 13 26-0079 Weathering Steel Backup Plates For Timber Guide Rails (34 71 13 26-0064)		

34 Transportation**34 70 Transportation Construction and Equipment****34 71 Roadway Construction**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0080 LF 6" High, Weathering Steel Backup Plate For Timber Guide Rails.....	25.00	1.07
34 71 13 26-0081 Weathering Steel Splice And Bearing Plates For Timber Guide Rails (34 71 13 26-0084)		
34 71 13 26-0082 EA Weathering Steel Splice Plate For Timber Guide Rails.....	171.10	14.90
34 71 13 26-0083 EA Weathering Steel Bearing Termination Plate For Timber Guide Rails	106.84	10.64
34 71 13 26-0084 Cable Guide Rail (34 71 13 26)		
34 71 13 26-0085 Cable Guide Rail (34 71 13 26-0084)		
34 71 13 26-0086 LF Cable (Each Cable)	9.58	2.30
Note: Includes tensioning. Excludes splices.		
34 71 13 26-0087 EA Cable Splice With Wedges	250.33	15.97
34 71 13 26-0088 Cable Guide Rail Posts (34 71 13 26-0084)		
Note: Includes hardware for cable mounting.		
34 71 13 26-0089 EA Standard Post for Cable Guide Rail	181.11	49.95
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	13.32	
34 71 13 26-0090 EA Standard Post (Rustic) for Cable Guide Rail.....	188.75	49.95
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	13.32	
34 71 13 26-0091 EA Extra Long Post for Cable Guide Rail	188.75	49.95
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	13.32	
34 71 13 26-0092 EA Extra Long Post (Rustic) for Cable Guide Rail	196.38	49.95
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	13.32	
34 71 13 26-0093 EA Slip Impact Post Top for Anchor Unit	118.25	19.98
34 71 13 26-0094 EA Slip Impact Post Base and Keeper Plate	309.11	19.98
Note: For anchor unit.		
34 71 13 26-0095 Cable Guide Rail Accessories For Breakaway Anchor Angle Systems (34 71 13 26-0084)		
34 71 13 26-0096 EA Turnbuckle Cable End Assembly For Use With Breakaway Anchors	544.09	213.39
34 71 13 26-0097 EA Turnbuckle Cable End Assembly	166.92	10.66
34 71 13 26-0098 EA Spring Cable End Assembly (Compensating Device) For Use With Breakaway Anchors	541.47	5.31
34 71 13 26-0099 EA Spring Cable End Assembly (Compensating Device) Without Turnbuckle	556.74	5.31
34 71 13 26-0100 EA Breakaway Anchor Angle.....	212.72	10.66
34 71 13 26-0101 EA Standard End Post Cap Assembly.....	98.68	5.31
34 71 13 26-0102 EA Driveway End Post Cap Assembly	83.41	5.31
34 71 13 26-0103 EA End Post Ground Support Plates	45.24	5.31
34 71 13 26-0104 EA 11" Stud Bolt, Cable Guide Rail	39.52	5.31
34 71 13 26-0105 EA 18" Stud Bolt, Cable Guide Rail	47.15	5.31
34 71 13 26-0106 EA 25" Stud Bolt, Cable Guide Rail	54.78	5.31
34 71 13 26-0107 EA 1-1/4" Diameter Turnbuckle, Cable Guide Rail	472.29	10.66
34 71 13 26-0108 EA 1-1/2" Diameter Turnbuckle, Cable Guide Rail	502.83	10.66
34 71 13 26-0109 EA 5/8" Diameter Turnbuckle With 12" Take-up And Shackle Ends, Cable Guide Rail.....	334.87	10.66
34 71 13 26-0110 EA 5/8" Eye Bolt 18" Long, Cable Guide Rail	205.56	5.31
34 71 13 26-0111 EA 3/4" Eye Bolt 8'-6" Long, Cable Guide Rail	212.72	10.66
34 71 13 26-0112 EA 1-5/8" Anchor Rod 10' Long With Plate, Cable Guide Rail	227.43	15.97
34 71 13 26-0113 Cable Guide Rail Accessories For Slip Impact Post Systems (34 71 13 26-0084)		
34 71 13 26-0114 EA Turnbuckle Cable End Assembly	381.06	16.68
Note: For use with slip impact post.		
34 71 13 26-0115 EA Spring Cable End Assembly (Compensating Device)	747.51	16.68
Note: For use with slip impact post.		
34 71 13 26-0116 EA Anchor Angle For Slip Impact Post System	220.74	16.68
34 71 13 26-0117 EA Cable End Assembly Rod	182.57	16.68
Note: Includes cable end, threaded rod and keeper to anchor angle.		
34 71 13 26-0118 Cable Guide Rail Repair For Existing Guide Rail (34 71 13 26-0084)		
Note: Includes associated hardware.		
34 71 13 26-0119 LF Retention Existing Cable (Each Cable).....	1.42	
34 71 13 26-0120 LF Removal And Storage Of Cable Guide Railing	8.58	
34 71 13 26-0121 EA Install Stored Post For Cable Guide Railing.....	66.60	
34 71 13 26-0122 LF Install Stored Cable, (Each Cable).....	3.80	
Note: Includes retensioning. Excludes splices.		
34 71 13 26-0123 6" x 6" Box Beam Guide Rail (34 71 13 26)		
34 71 13 26-0124 Box Beam Guide Rail, 6" x 6" (34 71 13 26-0123)		
34 71 13 26-0125 Straight Sections, Box Beam Guide Rail (34 71 13 26-0124)		



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		Transportation Construction and Equipment	34 70
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0126 LF Box Beam Guide Railing 6" x 6" x 3/16" Galvanized..... Note: Excludes splices. <i>For Flush Mounting Directly To Structure, Add</i>	51.28 1.83	2.68
34 71 13 26-0127 LF Box Beam Guide Railing 6" x 6" x 3/16" (Rustic) Note: Excludes splices. <i>For Flush Mounting Directly To Structure, Add</i>	58.26 1.83	2.68
34 71 13 26-0128 Shop Curved, Box Beam Guide Rail (34 71 13 26-0124)		
34 71 13 26-0129 LF Shop Curved Box Beam Guide Railing 6" x 6" x 3/16" Galvanized..... Note: Excludes splices. <i>For Shop Curved At <20' Radius, Add</i> <i>For Flush Mounting Directly To Structure, Add</i>	78.04 2.44 1.83	2.68
34 71 13 26-0130 LF Shop Curved Box Beam Guide Railing 6" x 6" x 3/16" (Rustic) Note: Excludes splices. <i>For Shop Curved At <20' Radius, Add</i> <i>For Flush Mounting Directly To Structure, Add</i>	85.02 2.44 1.83	2.68
34 71 13 26-0131 Box Beam Guide Rail End Treatment Sections (34 71 13 26-0123) Note: Includes rail, end cover plate and hardware only. Excludes posts and splice.		
34 71 13 26-0132 EA Box Beam End Piece Guide Railing Section Note: Galvanized excludes splices.	806.02	31.94
34 71 13 26-0133 EA Box Beam End Piece Guide Railing Section (Rustic) Note: Excludes splices.	890.00	31.94
34 71 13 26-0134 EA Box Beam Guide Railing End Treatment Section At Driveway, Galvanized Note: Excludes splices.	760.21	31.94
34 71 13 26-0135 EA Box Beam Guide Railing End Treatment Section At Driveway, (Rustic)..... Note: Excludes splices.	790.75	31.94
34 71 13 26-0136 Splices For Box Beam Guide Rail (34 71 13 26-0123)		
34 71 13 26-0137 EA Splice For Box Beam Guide Rail 34 71 13 26-0138 EA Splice For Box Beam Guide Rail (Rustic).....	209.35 262.79	47.41 47.41
34 71 13 26-0139 Box Beam Guide Rail Posts (34 71 13 26-0123) Note: Includes hardware for box beam mounting.		
34 71 13 26-0140 EA Standard Post For Box Beam Guide Rail <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	188.75 -5.00 13.32	49.95
34 71 13 26-0141 EA Standard Post (Rustic) for Box Beam Guide Railing..... <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	196.38 -5.00 13.32	49.95
34 71 13 26-0142 EA Extra Long Post For Box Beam Guide Rail..... <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	204.02 -5.00 13.32	49.95
34 71 13 26-0143 EA Extra Long Post (Rustic) For Box Beam Guide Rail <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	211.65 -5.00 13.32	49.95
34 71 13 26-0144 EA Type I End Assembly Post..... <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	181.11 -5.00 13.32	49.95
34 71 13 26-0145 EA Type I End Assembly Post (Rustic) <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	188.75 -5.00 13.32	49.95
34 71 13 26-0146 EA Type II End Assembly Post..... <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	173.48 -5.00 13.32	49.95
34 71 13 26-0147 EA Type II End Assembly Post (Rustic) <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	181.11 -5.00 13.32	49.95
34 71 13 26-0148 Box Beam Guide Rail Accessories (34 71 13 26-0123)		
34 71 13 26-0149 EA Box Beam Guide Rail End Cover Plate 34 71 13 26-0150 EA Box Beam Guide Rail End Cover Plate (Rustic).....	104.38 112.02	9.59 9.59
34 71 13 26-0151 Box Beam Guide Railing Repair, And Resetting (34 71 13 26-0123) Note: For existing guide rail.		
34 71 13 26-0152 LF Removal And Storage Of Box Beam Guide Rail And Post 34 71 13 26-0153 LF Reset Box Beam Guide Rail	4.21 12.28	
34 71 13 26-0154 6" x 8" Box Beam Median Barrier (34 71 13 26)		
34 71 13 26-0155 Box Beam Median Barrier, 6" x 8" (34 71 13 26-0154)		
34 71 13 26-0156 Straight Sections, Box Beam Median Barrier (34 71 13 26-0155)		
34 71 13 26-0157 LF Box Beam Median Barrier Galvanized Excludes Splices..... <i>For Flush Mounting Directly To Structure, Add</i>	86.07 1.83	9.59

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0158	LF	Box Beam Median Barrier (Rustic) Excludes Splices. <i>For Flush Mounting Directly To Structure, Add</i>	93.05 1.83	9.59
34 71 13 26-0159		Shop Curved, Box Beam Median Barrier (34 71 13 26-0155)		
34 71 13 26-0160	LF	Shop Curved Box Beam Median Barrier Galvanized Note: Excludes splices. <i>For Shop Curved At <20' Radius, Add</i> <i>For Flush Mounting Directly To Structure, Add</i>	104.41 2.44 1.83	9.59
34 71 13 26-0161	LF	Shop Curved Box Beam Median Barrier Rustic Note: Excludes splices. <i>For Shop Curved At <20' Radius, Add</i> <i>For Flush Mounting Directly To Structure, Add</i>	127.32 2.44 1.83	9.59
34 71 13 26-0162		Box Beam Median Barrier End Treatment Sections (34 71 13 26-0154)		
		Note: Includes rail, end cover plate and hardware. Excludes posts.		
34 71 13 26-0163	EA	Box Beam Median Barrier Type A End Treatment Section, Galvanized Note: Excludes splices and post.	2,630.62	31.94
34 71 13 26-0164	EA	Box Beam Median Barrier Type A End Treatment Section (Rustic) Note: Excludes splices and post.	2,691.69	31.94
34 71 13 26-0165	EA	Box Beam Median Barrier Type B End Treatment Section, Galvanized Note: Excludes splices and post.	2,630.62	31.94
34 71 13 26-0166	EA	Box Beam Median Barrier Type B End Treatment Section (Rustic) Note: Excludes splices and post.	2,691.69	31.94
34 71 13 26-0167		Splices For Box Beam Median Barrier (34 71 13 26-0154)		
34 71 13 26-0168	EA	Splice for Box Beam Median Barrier	202.02	25.56
34 71 13 26-0169	EA	Splice for Box Beam Median Barrier (Rustic)	316.54	25.56
34 71 13 26-0170		Box Beam Median Barrier Posts Driven With Soil Plate (34 71 13 26-0154)		
		Note: Includes all associated hardware.		
34 71 13 26-0171	EA	Standard Post for Box Beam Median Barrier <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	188.75 -5.00 13.32	49.95
34 71 13 26-0172	EA	Standard Post (Rustic) for Box Beam Median Barrier <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	196.38 -5.00 13.32	49.95
34 71 13 26-0173	EA	Extra Long Post for Box Beam Median Barrier <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	204.02 -5.00 13.32	49.95
34 71 13 26-0174	EA	Extra Long Post (Rustic) for Box Beam Median Barrier <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	211.65 -5.00 13.32	49.95
34 71 13 26-0175	EA	Type B End Treatment or Rub Back Anchor Post for Box Beam Note: For median barrier. <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	173.48 -5.00 13.32	49.95
34 71 13 26-0176	EA	Type B End Treatment or Rub Back Anchor Post (Rustic) Note: For box beam median barrier. <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	173.48 -5.00 13.32	49.95
34 71 13 26-0177	EA	Type I End Assembly Post for Box Beam Median Barrier to Concrete Note: For median barrier transition. <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	204.02 -5.00 13.32	49.95
34 71 13 26-0178	EA	Type I End Assembly Post (Rustic) for Box Beam Median Barrier Note: For Concrete median barrier transition. <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	211.65 -5.00 13.32	49.95
34 71 13 26-0179		Box Beam Median Barrier Accessories (34 71 13 26-0154)		
34 71 13 26-0180	EA	Box Beam Median Barrier End Cover Plate	129.50	22.49
34 71 13 26-0181	EA	Box Beam Median Barrier End Cover Plate (Rustic)	137.13	22.49
34 71 13 26-0182		Box Beam Median Barrier Repair, And Resetting (34 71 13 26-0154)		
		Note: For existing guide rail.		
34 71 13 26-0183	LF	Removal And Storage Of Box Beam Median Barrier and Posts	4.35	
34 71 13 26-0184	LF	Reset Box Beam Median Barrier	12.86	
34 71 13 26-0185		Universal Guide Rail Items (34 71 13 26)		
34 71 13 26-0186		Guide Rail Concrete Anchor Units For All Types Of Guide Rail (34 71 13 26-0185)		
		Note: For cast in place or precast. Includes excavation, formwork, concrete, reinforcement, anchor rods and/or imbedded plate. Excludes anchor angle. For anchor angles and other terminal connections, use accessories section for respective guide rail type.		
34 71 13 26-0187	CY	Guide Rail Concrete Anchor Unit <i>For Each Additional Set Of Anchor Rods, Add</i>	751.24 38.00	



		Transportation	34
		Transportation Construction and Equipment	34 70
		Roadway Construction	34 71

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0188	EA	Reset Existing Anchorage Unit For All Types of Guide Rail..... Note: Includes excavation and backfill.	488.48	
34 71 13 26-0189	EA	Removal Of Guide Rail Concrete Anchor Unit.....	555.36	
34 71 13 26-0190		Guide Rail Repair For All Types Of Existing Guide Rail (34 71 13 26-0185) Note: Includes associated hardware.		
34 71 13 26-0191	EA	Straighten And Reset Driven Post For Guide Rail	66.60	
34 71 13 26-0192	EA	Straighten And Reset Post Mounted On Concrete For Guide Rail	77.59	
		Note: With base plate for guide rail. Includes new anchor bolts.		
34 71 13 26-0193		Additional Wood and Steel Posts (34 71 13 26-0185)		
34 71 13 26-0194	LF	4" x 6" Wood Post..... For Installation In Rock, Add	58.51 4.45	16.68
34 71 13 26-0195	LF	6" x 8" Wood Post..... For Installation In Rock, Add	69.96 4.45	16.68
34 71 13 26-0196	LF	6" x 7/8" Galvanized Steel Post	43.88	16.68
		For Installation In Rock, Add	4.45	
34 71 13 26-0197	EA	Base Plate With Anchor Bolts For Mounting Post On Concrete	407.25	16.68
34 71 13 26-0198		Accessories For All Types of Guide Rail (34 71 13 26-0185)		
34 71 13 26-0199	EA	Reflector For Guard Rail.....	49.39	
34 71 13 26-0200		Resilient Guard Fence And Light Shield (34 71 13 26)		
34 71 13 26-0201	LF	Resilient Guard Fence And Light Shield, Up To 6' High	88.87	6.88
34 71 13 26-0202		Individual Concrete Guard Rail Posts (34 71 13 26)		
34 71 13 26-0203	EA	6'-5" Concrete Guard Rail Posts, Round	110.05	6.88
34 71 13 26-0204	EA	6'-5" Concrete Posts, Square.....	122.90	7.73
34 71 13 26-0205	EA	6'-5" Concrete Posts, Triangular.....	119.32	7.73
34 71 13 26-0206		Guide Rail Transitions (34 71 13 26)		
34 71 13 26-0207		Transition Box Beam Guide Rail To Corrugated Beam (34 71 13 26-0206) Note: Use cable guide rail section for cable, anchor angle and cable end assembly.		
34 71 13 26-0208	EA	Box Beam To Corrugated Beam Rail Bolted Section.....	742.58	
34 71 13 26-0209	EA	Box Beam To Corrugated Beam Rail Bolted Plate	437.21	
		Note: For making cable connections.		
34 71 13 26-0210		Transition Box Beam Median Barrier To Corrugated Beam Median (34 71 13 26-0206) Note: Use cable guide rail section for anchor angle and cable end assembly.		
34 71 13 26-0211	EA	Box Beam Median Barrier To Corrugated Beam Bolted Section	757.85	
34 71 13 26-0212	EA	Box Beam Median Barrier To Corrugated Beam Harness Plate.....	437.21	
		Note: For making cable connections.		
34 71 13 26-0213		Transition Box Beam Guide Rail To Cable Guide Rail (34 71 13 26-0206) Note: Use cable guide rail section for cable, anchor angle and end connections at anchor unit.		
34 71 13 26-0214	EA	Box Beam to Cable Guide Rail U-bolt And Plate	104.79	17.04
34 71 13 26-0215		Transition Box Beam Median Barrier To Concrete Median Barrier (34 71 13 26-0206) Note: For end treatment sections for rub rail turnback, use box beam guide rail end treatments.		
34 71 13 26-0216	EA	Box Beam Median Barrier To Concrete Barrier End Connection.....	1,047.95	
34 71 13 26-0217		Transition Thrie Beam To Concrete Median Barrier (34 71 13 26-0206)		
34 71 13 26-0218	EA	Thrie Beam Terminal Connector At Concrete Median Barrier	666.24	
34 71 13 26-0219	EA	Thrie Beam Transition Section To Corrugated Beam Guide Rail.....	857.09	
34 71 16		Impact Attenuating Devices (34 71)		
34 71 16 00-0001		Guard Rail Energy Absorbing Terminals (34 71 16) Note: Crushable foam cartridges surrounded by steel guardrail for narrow hazards. QuadGuard System as manufactured by Energy Absorption Systems, Inc.		
34 71 16 00-0002		24" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		
34 71 16 00-0003	EA	24" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	33,853.51	3,432.02
34 71 16 00-0004	EA	24" Wide, 5 Cartridge, Bays Energy Absorbing Crash Attenuator	47,012.24	4,576.03
34 71 16 00-0005	EA	24" Wide, 7 Cartridge, Bays Energy Absorbing Crash Attenuator	64,155.86	6,006.04
34 71 16 00-0006	EA	24" Wide, 9 Cartridge, Bays Energy Absorbing Crash Attenuator	71,325.83	7,436.05
34 71 16 00-0007		30" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		

34 Transportation**34 70 Transportation Construction and Equipment****34 71 Roadway Construction**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 16 00-0008 EA 30" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	36,457.06	3,861.02
34 71 16 00-0009 EA 30" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	50,780.26	5,148.04
34 71 16 00-0010 EA 30" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	69,689.12	6,864.04
34 71 16 00-0011 EA 30" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	79,819.77	8,294.05
34 71 16 00-0012 36" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		
34 71 16 00-0013 EA 36" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	39,090.54	4,290.03
34 71 16 00-0014 EA 36" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	54,577.47	5,720.04
34 71 16 00-0015 EA 36" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	74,622.09	7,579.05
34 71 16 00-0016 EA 36" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	88,282.86	9,152.06
34 71 16 00-0017 69" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		
34 71 16 00-0018 EA 69" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	42,331.28	4,719.03
34 71 16 00-0019 EA 69" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	58,611.39	6,292.04
34 71 16 00-0020 EA 69" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	80,500.47	8,294.05
34 71 16 00-0021 EA 69" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	94,791.36	10,010.07
34 71 16 00-0022 90" Wide Guard Rail Energy Absorbing Terminals (34 71 16 00-0001)		
34 71 16 00-0023 EA 90" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator	45,660.15	5,148.04
34 71 16 00-0024 EA 90" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator	62,748.86	6,864.04
34 71 16 00-0025 EA 90" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator	87,158.21	9,152.06
34 71 16 00-0026 EA 90" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator	101,481.75	10,868.07
34 71 19 Vehicle Delineators (34 71)		
34 71 19 16 Flexible Vehicle Delineators (34 71 19)		
34 71 19 16-0001 EA 2' High, 3" Diameter Flexible Fixed Stanchion Delineator	91.17	8.59
34 71 19 16-0002 EA 3' High, 3" Diameter Flexible Fixed Stanchion Delineator	92.47	8.59
34 71 19 16-0003 EA 3-1/2' High, 3" Diameter Flexible Fixed Stanchion Delineator	93.77	8.59
34 71 19 16-0004 EA 4' High, 3" Diameter Flexible Fixed Stanchion Delineator	95.08	8.59
34 80 Bridges (34)		
34 82 Bridge Specialties (34 80)		
34 82 23 Bridge Railing (34 82)		
34 82 23 00-0001 Metal Bridge Railing (34 82 23)		
Note: Includes hardware for bridge rail mounting.		
34 82 23 00-0002 LF 2" x 2" x 1/8" Bridge Railing	40.58	3.78
34 82 23 00-0003 LF 3" x 3" x 5/16" Bridge Railing	69.61	5.89
34 82 23 00-0004 LF 5" x 3" x 1/4" Bridge Railing	89.49	8.63
34 82 23 00-0005 LF 6" x 6" x 3/16" Bridge Railing	118.71	10.86
34 82 23 00-0006 LF 5" Outside Diameter x 1/4" Bridge Railing	95.40	8.38
34 82 23 00-0007 Bridge Post (34 82 23)		
Note: Includes hardware for bridge post mounting.		
34 82 23 00-0008 EA 6" x 9" x 5'-6" Bridge Post	155.30	45.32
34 82 23 00-0009 EA 6" x 9" x 7' Bridge Post	192.76	48.15
34 82 23 00-0010 EA Two Rail With Base Plate Bridge Post Assembly	442.65	84.98
34 82 23 00-0011 EA Two Rail With Curb Bridge Post Assembly	542.84	90.64
34 82 23 00-0012 EA Two Rail (Curbless) Bridge Post Assembly	495.75	90.64
34 82 23 00-0013 EA Two Rail With Optional Handrail Bridge Post Assembly	596.00	90.64
34 82 23 00-0014 EA Four Rail (Curbless) With Base Plate Bridge Post	510.16	96.31
34 82 23 00-0015 EA Four Rail With Base Plate (Sidewalk Type) Bridge Post	510.29	96.31
34 82 23 00-0016 EA Four Rail With Curb Bridge Post Assembly	762.24	96.31
34 82 23 00-0017 EA Four Rail (Curbless) Bridge Post Assembly	782.71	96.31
34 82 23 00-0018 EA Five Rail With Base Plate (Curbless) Bridge Post Assembly	567.22	101.97
34 82 23 00-0019 Bridge Railing Splices (34 82 23)		
Note: Includes hardware for splices.		
34 82 23 00-0020 EA 5" Outside Diameter Bridge Railing Splice	233.67	21.71
34 82 23 00-0021 EA 5" x 3" Bridge Railing Splice	139.03	19.00
34 82 23 00-0022 EA 3" x 3" Bridge Railing Splice	85.57	13.57
34 82 23 00-0023 EA 2" x 2" Bridge Railing Splice	43.61	9.77
34 82 23 00-0024 EA 5" x 5" x 3' Expansion Splice Tube	177.47	20.99
34 82 23 00-0025 EA 4" x 2" x 3' Expansion Splice Bar	188.98	20.99
34 82 23 00-0026 EA 5" x 5" x 2' Fixed Splice Tube	162.34	20.99
34 82 23 00-0027 EA 4" x 2" x 2' Fixed Splice Bar	166.50	20.99
34 82 23 00-0028 EA 6" x 6" x 3/16" Box x 9' Flare Tube	239.63	28.36
34 82 23 00-0029 Transition For Bridge Railing (34 82 23)		
Note: Includes hardware for transition for bridge railing.		



Transportation		34	34
Bridges		34 80	
Bridge Specialties		34 82	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 82 23 00-0030 EA Two Rail Box Beam To Bridge Transition With Splices	978.14	113.30
34 82 23 00-0031 EA Four Rail Box Beam To Bridge Transition With Splices	1,212.47	124.63
34 82 23 00-0032 EA 6" x 6" x 16-1/2' Bottom Transition Tube.....	413.98	56.64
34 82 23 00-0033 EA 6" x 6" x 22' Bottom Transition Tube.....	509.69	62.31
34 82 23 00-0034 EA 6" x 6" x 16-1/2' Top Transition Tube.....	424.16	56.64
34 82 23 00-0035 EA 6" x 6" x 21-1/2' Top Transition Tube.....	501.28	62.31
 34 82 23 00-0036 Anchor Plates And End Caps For Bridge Railing (34 82 23)		
34 82 23 00-0037 EA 14" x 14" Bridge Railing Anchor Plate.....	43.68	5.43
34 82 23 00-0038 EA 18" x 22" Deck Anchor Plate.....	262.96	27.14
34 82 23 00-0039 EA 2" x 2" Bridge Railing End Cap	35.26	2.72
34 82 23 00-0040 EA 3" x 3" Bridge Railing End Cap	22.18	2.72
34 82 23 00-0041 EA 5" O.D Bridge Railing End Cap.....	22.02	2.72
 34 82 26 Bridge Slope Protection (34 82)		
34 82 26 00-0001 Bridge Slope Protection (34 82 26)		
Note: Solid concrete masonry unit installed in sand bedding.		
34 82 26 00-0002 SF 8" x 16" x 4" Solid Concrete Block, Bridge Slope Protection.....	14.61	5.50
34 82 26 00-0003 SF 8" x 16" x 6" Solid Concrete Block, Bridge Slope Protection.....	17.49	6.06
34 82 26 00-0004 SF 8" x 16" x 8" Solid Concrete Block, Bridge Slope Protection.....	19.39	6.44

END OF SECTION 34

34	34	Transportation
	34 80	Bridges
	34 82	Bridge Specialties



MINOR				TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST		UNIT COST

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Waterway and Marine Construction		35
Operation and Maintenance of Waterway and Marine Construction		35 01
Operation and Maintenance of Dams		35 01 70

35

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

35 Waterway and Marine Construction

35 01 Operation and Maintenance of Waterway and Marine Construction⁽³⁵⁾

35 01 70 Operation and Maintenance of Dams^(35 01)

35 01 70 00-0001		Drilling And Pressure Grouting ^(35 01 70)	
35 01 70 00-0002		From Top Of The Dam ^(35 01 70 00-0001)	
35 01 70 00-0003	LF	Pressure Grout, Top Of Dam, In Concrete, Drill 3" Nominal Grout Hole.....	110.80
35 01 70 00-0004	LF	Pressure Grout, Top Of Dam, In Rock, Drill 3" Nominal Grout Hole	127.70
35 01 70 00-0005	LF	Pressure Grout, Install Guide Sleeves 3-1/2" Inside Diameter, Top Of Dam	133.38
35 01 70 00-0006	EA	Pressure Grout, Hydraulic Pressure Test Top Of Dam.....	840.91
35 01 70 00-0007	EA	Pressure Grout, Grout Hook-Up Top Of Dam	446.95
35 01 70 00-0008	CWT	Pressure Grout, Portland Cement Top Of Dam	68.00
35 01 70 00-0009	CWT	Pressure Grout, Fluidifier In Grout Top Of Dam.....	200.86
35 01 70 00-0010	CF	Pressure Grout, Place Grout Except Hook-Ups, Top Of Dam	184.53
35 01 70 00-0011		Large Diameter Holes - Rotary Drilled ^(35 01 70 00-0001)	
35 01 70 00-0012		From Top Of The Dam ^(35 01 70 00-0011)	
35 01 70 00-0013	LF	Pressure Grout, Rotary Drilled Top Of Dam, 6" Nominal Diameter, Vertical.....	163.98
35 01 70 00-0014	LF	Pressure Grout, Rotary Drilled Top Of Dam, 6" Nominal Diameter, Inclined	178.13
35 01 70 00-0015	LF	Pressure Grout, Rotary Drilled Top Of Dam, 9" Nominal Diameter, Vertical.....	257.56
35 01 70 00-0016	LF	Pressure Grout, Rotary Drilled Top Of Dam, 9" Nominal Diameter, Inclined	284.42

35 05 Common Work Results for Waterway and Marine Construction⁽³⁵⁾

35 05 70 Common Work Results for Dams^(35 05)

35 05 70 00-0001		Rubber Dam Repair ^(35 05 70)	
35 05 70 00-0002	EA	Class A Rubber Dam Repair (Bullet And Similar Holes).....	37.38
35 05 70 00-0003	SF	Class B Rubber Dam Repair (Minor Surface Rubber Damage).....	74.80
35 05 70 00-0004	SF	Class C Rubber Dam Repair (Major Surface Rubber Damage).....	109.28
35 05 70 00-0005	SF	Class D Rubber Dam Repair (Serious Surface Rubber Damage), Per Layer Of Material	122.25

35 20 Waterway and Marine Construction and Equipment⁽³⁵⁾

35 24 Dredging^(35 20)

35 24 23 Clamshell Dredging^(35 24)

35 24 23 00-0001		Dredging, Barge Mounted ^(35 24 23)	
		See CSI section 01 74 19 00-0029 for hauling material from shore or barge, 31 23 16 33-0019 for loading.	
35 24 23 00-0002	EA	Dredge Excavation Mobilization And Demobilization.....	22,797.34
		<i>For Inlet Rivers And Canals, Deduct</i>	<i>-5,699.34</i>
35 24 23 00-0003	CY	Barge Mounted Clamshell Excavation Into Scows, Dumping Up To 10 Miles	25.33
		Note: Includes tugboat to move scows or barge.	
35 24 23 00-0004	CY	Barge Mounted Dragline Or Clamshell, Hopper Dumped, Pumped 1,000' To Shore	22.80
		Note: Includes tugboat to move barge.	
35 24 23 00-0005	CY	Hydraulic Dredge Excavation Into Scows, Dumping Up To 10 Miles.....	25.24
		Note: Includes tugboat to move scows or barge.	
35 24 23 00-0006	CY	Hydraulic Dredge Excavation, Pumped 1,000' To Shore	21.17
		Note: Includes tugboat to move barge.	

35 24 26 Backhoe/Dipper Dredging^(35 24)

35 24 26 00-0001		Dredging, Shoreline Excavators ^(35 24 26)	
35 24 26 00-0002	CY	Back Hoe, 1 CY Bucket, Dredging From Shore	14.79
35 24 26 00-0003	CY	Hydraulic Excavator, 2 CY Bucket, Dredging From Shore.....	9.99

END OF SECTION 35

35	35	Waterway and Marine Construction
	35 20	Waterway and Marine Construction and Equipment
	35 24	Dredging



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST

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Custom Standards And Assemblies			50
CALTRANS Custom Standards And Assemblies			50 89
CALTRANS Construction Performance Requirements			50 89 80

50

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST

50 Custom Standards And Assemblies

50 89 CALTRANS Custom Standards And Assemblies (50)

Note: Use as directed by owner only.

50 89 80 CALTRANS Construction Performance Requirements (50 89)

Note: Refer to www.dot.ca.gov for CALTRANS Standard Plans and Specifications

50 89 81 CALTRANS DIVISION I - GENERAL PROVISIONS (50 89 80)

50 89 81 01 PAYMENT (50 89 81)

Note: Includes equipment mobilization, hauling over 25 miles, overtime, specialty labor, specialty equipment, reimbursables and permits per CALTRANS Standard. See CSI section 01 22 16 00-0001 for Reimbursable fees and permits, 01 22 20 00-0000 for specialty labor, 01 22 23 00-0000 for specialty equipment, 01 71 13 00-0000 for equipment mobilization, 01 74 19 00-0029 for hauling >25 miles.

50 89 81 01-0001	EA	CALTRANS 999990 MOBILIZATION	0.00

Note: (One Time Per Job) See CSI section 01 71 13 00-0000 for mobilization of equipment.

50 89 82 CALTRANS DIVISION II - GENERAL CONSTRUCTION (50 89 80)

50 89 82 12 TEMPORARY TRAFFIC CONTROL (50 89 82)

Note: Includes flagging, apparel, temporary traffic control devices, and equipment for flaggers, must comply with the latest California MUTCD per CALTRANS Standard.

50 89 82 12-0001	EA	CALTRANS 120110 FLASHING ARROW SIGN	1,283.06
50 89 82 12-0002	EA	CALTRANS 120116 TYPE II BARRICADE	42.79
50 89 82 12-0003	EA	CALTRANS 120119 TRAFFIC CONE	12.01
50 89 82 12-0004	EA	CALTRANS 120120 TYPE III BARRICADE	83.13
50 89 82 12-0005	EA	CALTRANS 120140 BARRICADE (LEFT IN PLACE)	75.13
50 89 82 12-0006	SF	CALTRANS 120149 TEMPORARY PAVEMENT MARKING (PAINT)	3.21
50 89 82 12-0007	LF	CALTRANS 120151 TEMPORARY TRAFFIC STRIPE (TAPE)	5.09
50 89 82 12-0008	SF	CALTRANS 120152 TEMPORARY PAVEMENT MARKING (TAPE)	12.63
50 89 82 12-0009	LF	CALTRANS 120159 TEMPORARY TRAFFIC STRIPE (PAINT)	0.69
50 89 82 12-0010	EA	CALTRANS 120165 CHANNELIZER (SURFACE MOUNTED)	29.72
50 89 82 12-0011	EA	CALTRANS 120166 CHANNELIZER (SURFACE MOUNTED) (LEFT IN PLACE)	66.62
50 89 82 12-0012	EA	CALTRANS 120182 PORTABLE DELINEATOR	23.66
50 89 82 12-0013	EA	CALTRANS 120198 PLASTIC TRAFFIC DRUMS	35.92
50 89 82 12-0014	EA	CALTRANS 120200 FLASHING BEACON (PORTABLE)	43.97
50 89 82 12-0015	EA	CALTRANS 120300 TEMPORARY PAVEMENT MARKER	3.22
50 89 82 12-0016	MO	CALTRANS 128651 PORTABLE CHANGEABLE MESSAGE SIGN (EA)	2,791.86
50 89 82 12-0017	MO	CALTRANS 129100 TEMPORARY CRASH CUSHION MODULE	667.24

50 89 82 13 WATER POLLUTION CONTROL (50 89 82)

Note: Includes preventing, controlling, and abating water pollution within waters of the State per CALTRANS Standard.

50 89 82 13-0001	EA	CALTRANS 130310 RAIN EVENT ACTION PLAN	571.88
50 89 82 13-0002	EA	CALTRANS 130320 STORM WATER SAMPLING AND ANALYSIS DAY	475.69
50 89 82 13-0003	EA	CALTRANS 130330 STORM WATER ANNUAL REPORT	2,292.50
50 89 82 13-0004	SY	CALTRANS 130500 TEMPORARY EROSION CONTROL BLANKET	5.74
50 89 82 13-0005	EA	CALTRANS 130505 MOVE-IN/MOVE-OUT (TEMPORARY EROSION CONTROL)	885.34
50 89 82 13-0006	SY	CALTRANS 130510 TEMPORARY MULCH	4.78
50 89 82 13-0007	SY	CALTRANS 130520 TEMPORARY HYDRAULIC MULCH	0.91
50 89 82 13-0008	SY	CALTRANS 130530 TEMPORARY HYDRAULIC MULCH (BONDED FIBER MATRIX)	0.44
50 89 82 13-0009	SY	CALTRANS 130535 TEMPORARY HYDRAULIC MULCH (CEMENTITIOUS BINDER)	13.48
50 89 82 13-0010	SY	CALTRANS 130540 TEMPORARY TACKED STRAW	0.33
50 89 82 13-0011	SY	CALTRANS 130550 TEMPORARY HYDROSEED	0.91
50 89 82 13-0012	SY	CALTRANS 130560 TEMPORARY SOIL BINDER	0.49
50 89 82 13-0013	SY	CALTRANS 130570 TEMPORARY COVER	7.77
50 89 82 13-0014	EA	CALTRANS 130620 TEMPORARY DRAINAGE INLET PROTECTION	96.81
50 89 82 13-0015	LF	CALTRANS 130640 TEMPORARY FIBER ROLL	10.49
Note: 12" Diameter, Type 1			
For 9" Diameter, Deduct			-1.45
For >1,000 To 10,000, Deduct			-0.93
For >10,000, Deduct			-1.59
50 89 82 13-0016	LF	CALTRANS 130640 TEMPORARY FIBER ROLL	8.86
Note: 12" Diameter, Type 2			
For 9" Diameter, Deduct			-1.45
For >1,000 To 10,000, Deduct			-0.68
For >10,000, Deduct			-1.18
50 89 82 13-0017	LF	CALTRANS 130650 TEMPORARY GRAVEL BAG BERM	13.73
50 89 82 13-0018	LF	CALTRANS 130670 TEMPORARY REINFORCED SILT FENCE	9.72
50 89 82 13-0019	LF	CALTRANS 130680 TEMPORARY SILT FENCE	3.10
50 89 82 13-0020	LF	CALTRANS 130690 TEMPORARY STRAW BALE BARRIER	5.40
50 89 82 13-0021	EA	CALTRANS 130710 TEMPORARY CONSTRUCTION ENTRANCE	2,192.36
50 89 82 13-0022	SY	CALTRANS 130720 TEMPORARY CONSTRUCTION ROADWAY	51.56
50 89 82 13-0023	EA	CALTRANS 131103 WATER QUALITY SAMPLING AND ANALYSIS DAY	475.69
50 89 82 13-0024	EA	CALTRANS 131104 WATER QUALITY MONITORING REPORT	788.75
50 89 82 13-0025	EA	CALTRANS 131105 WATER QUALITY ANNUAL REPORT	843.12

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

50 89 83 CALTRANS DIVISION III - GRADING (50 89 80)**50 89 83 17 GENERAL (50 89 83)**

Note: Includes clear all construction areas above original ground of (1) all vegetation such as trees, logs, upturned stumps, roots of downed trees, brush, grass, and weeds and (2) other objectionable material including concrete, masonry, and debris. Grub all construction areas to a depth necessary to remove all trees, existing stumps, roots, buried logs, and other objectionable material, except embankment areas where the grading plane is 2 feet or more above original ground per CALTRAN Standard.

50 89 83 17-0001 ACR CALTRANS 170105 CLEARING AND GRUBBING (ACRE)..... 12,856.23

Note: Includes grub and removal of stump. In embankment areas where the grading plane is 2 feet or more above original ground, cut off trees, stumps, and roots not more than 1 foot above original ground, except remove trees, stumps, and roots completely where work includes any of the following: 1. Structure construction, 2. Pile construction, 3. Subdrainage trench excavation, 4. Removal of unsuitable material, 5. Cutting into slopes of original hillsides, old or new fill

50 89 83 19 EARTHWORK (50 89 83)

Note: Includes earthwork activities includes removal of unsuitable material or a buried man-made object if the removal is described. Excavate and dispose of unsuitable material encountered below the natural ground surface in embankment areas or below the grading plane in excavation areas. Backfill the space resulting from excavating unsuitable material with material suitable for the planned use. Place and compact suitable material. Remove and dispose of a buried man-made object encountered in an excavation as part of the excavation work. Roadway excavation consists of all excavation involved in the grading and construction of the roadway except structure excavation per CALTRAN Standard.

50 89 83 19-0001	CY	CALTRANS 190101 ROADWAY EXCAVATION	19.74	
		For >1,000, Deduct	-2.96	
50 89 83 19-0002	CY	CALTRANS 190161 ROCK EXCAVATION	36.66	
50 89 83 19-0003	TON	CALTRANS 190185 SHOULDER BACKING	167.98	
50 89 83 19-0004	CY	CALTRANS 192037 STRUCTURE EXCAVATION (RETAINING WALL)	61.67	832.81
50 89 83 19-0005	CY	CALTRANS 192049 STRUCTURE EXCAVATION (SOLDIER PILE WALL)	90.88	285.71
50 89 83 19-0006	CY	CALTRANS 192502 SAND BEDDING.....	38.38	
		For Up To 8, Add	7.68	
		For >8 To 16, Add	3.84	
		For >48 To 64, Deduct	-2.76	
		For >64 To 96, Deduct	-4.68	
		For >96, Deduct	-6.60	
50 89 83 19-0007	CY	CALTRANS 193013 STRUCTURE BACKFILL (RETAINING WALL)	61.67	832.81
50 89 83 19-0008	CY	CALTRANS 193118 CONCRETE BACKFILL.....	284.78	
50 89 83 19-0009	CY	CALTRANS 198010 IMPORTED BORROW (CY)	94.91	
50 89 83 19-0010	TON	CALTRANS 198011 IMPORTED BORROW (TON)	132.87	
50 89 83 19-0011	SY	CALTRANS 198206 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS A1.....	6.74	
		For Up To 50, Add	1.40	
		For >50 To 150, Add	1.05	
		For >150 To 250, Add	0.69	
		For >250 To 500, Add	0.35	
50 89 83 19-0012	SY	CALTRANS 198207 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS A2.....	2.77	
		For Up To 50, Add	0.60	
		For >50 To 150, Add	0.44	
		For >150 To 250, Add	0.29	
		For >250 To 500, Add	0.15	
50 89 83 19-0013	SY	CALTRANS 198208 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS B1.....	7.85	
		For Up To 50, Add	1.62	
		For >50 To 150, Add	1.21	
		For >150 To 250, Add	0.80	
		For >250 To 500, Add	0.40	
50 89 83 19-0014	SY	CALTRANS 198209 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS B2.....	3.81	
		For Up To 50, Add	0.80	
		For >50 To 150, Add	0.60	
		For >150 To 250, Add	0.40	
		For >250 To 500, Add	0.20	
50 89 83 19-0015	SY	CALTRANS 198210 SUBGRADE ENHANCEMENT GEOTEXTILE, CLASS B3.....	3.57	
		For Up To 50, Add	0.77	
		For >50 To 150, Add	0.57	
		For >150 To 250, Add	0.37	
		For >250 To 500, Add	0.19	
50 89 83 19-0016	SY	CALTRANS 198215 SUBGRADE ENHANCEMENT GEOGRID	5.98	
		For Up To 50, Add	1.30	
		For >50 To 150, Add	0.97	
		For >150 To 250, Add	0.63	
		For >250 To 500, Add	0.32	
50 89 83 19-0017	SY	CALTRANS 198250 GEOSYNTHETIC REINFORCEMENT	2.16	

50 89 83 20 LANDSCAPE (50 89 83)

Note: Includes materials and placement per CALTRAN Standard. Underground pipe includes pipe, fittings, trenching, backfill and compaction. Aboveground pipe include pipe, fittings and supports.

50 89 83 20-0001	SF	CALTRANS 200114 ROCK BLANKET	14.51	
		For >5,000, Deduct	-1.95	
50 89 83 20-0002	SY	CALTRANS 200122 WEED GERMINATION	0.64	
50 89 83 20-0003	SY	CALTRANS 200123 CULTIVATION	2.68	
50 89 83 20-0004	LB	CALTRANS 202004 IRON SULFATE (LB).....	6.61	
50 89 83 20-0005	CY	CALTRANS 202006 SOIL AMENDMENT	116.53	
50 89 83 20-0006	EA	CALTRANS 202026 RELOCATE BACKFLOW PREVENTER ASSEMBLY	1,361.38	
50 89 83 20-0007	EA	CALTRANS 202027 RELOCATE WATER METER	1,361.38	
50 89 83 20-0008	EA	CALTRANS 202028 RELOCATE IRRIGATION CONTROLLER	1,372.59	
50 89 83 20-0009	LB	CALTRANS 202037 ORGANIC FERTILIZER.....	6.69	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 83 20-0010	EA		CALTRANS 202038 PACKET FERTILIZER.....	1.14	
50 89 83 20-0011	LB		CALTRANS 202039 SLOW-RELEASE FERTILIZER.....	3.20	
50 89 83 20-0012	EA		CALTRANS 204003 PLANT (GROUP C) (6' To 8' B&B).....	422.18	
50 89 83 20-0013	EA		CALTRANS 204003 PLANT (GROUP C) (10' To 14' B&B).....	773.89	
50 89 83 20-0014	EA		CALTRANS 204003 PLANT (GROUP C) (16' To 20' B&B).....	1,192.86	
50 89 83 20-0015	EA		CALTRANS 204003 PLANT (GROUP C) (22' To 26' B&B).....	1,847.53	
50 89 83 20-0016	EA		CALTRANS 204005 PLANT (GROUP E).....	3.23	
			For >100 To 1,000, Deduct	-0.19	
			For >1,000 To 5,000, Deduct	-0.30	
			For >5,000, Deduct	-0.38	
50 89 83 20-0017	EA		CALTRANS 204006 PLANT (GROUP F).....	2.29	
			For >100 To 1,000, Deduct	-0.15	
			For >1,000 To 5,000, Deduct	-0.24	
			For >5,000, Deduct	-0.29	
50 89 83 20-0018	EA		CALTRANS 204008 PLANT (GROUP H).....	6.43	
			For >10 To 100, Deduct	-0.64	
			For >100 To 1,000, Deduct	-1.45	
			For >1,000 To 10,000, Deduct	-2.25	
			For >10,000 To 25,000, Deduct	-3.22	
			For >25,000, Deduct	-4.50	
50 89 83 20-0019	EA		CALTRANS 204009 PLANT (GROUP I).....	23.84	
			For >100 To 1,000, Deduct	-1.62	
			For >1,000 To 5,000, Deduct	-2.65	
			For >5,000, Deduct	-3.24	
50 89 83 20-0020	EA		CALTRANS 204011 PLANT (GROUP K).....	565.77	
50 89 83 20-0021	EA		CALTRANS 204013 PLANT (GROUP M).....	7.96	
			For >100 To 1,000, Deduct	-0.46	
			For >1,000 To 5,000, Deduct	-0.73	
			For >5,000, Deduct	-0.92	
50 89 83 20-0022	EA		CALTRANS 204015 PLANT (GROUP S).....	8.87	
			For >100 To 1,000, Deduct	-0.56	
			For >1,000 To 5,000, Deduct	-0.89	
			For >5,000, Deduct	-1.11	
50 89 83 20-0023	EA		CALTRANS 204020 PLANT (GROUP P).....	7.54	
			For >100 To 1,000, Deduct	-0.43	
			For >1,000 To 5,000, Deduct	-0.67	
			For >5,000, Deduct	-0.86	
50 89 83 20-0024	EA		CALTRANS 204030 TRANSPLANT TREE.....	3,795.22	
			For >5 To 10, Deduct	-189.76	
			For >10 To 20, Deduct	-379.52	
			For >20, Deduct	-569.28	
50 89 83 20-0025	EA		CALTRANS 204035 PLANT (GROUP A).....	32.25	
50 89 83 20-0026	EA		CALTRANS 204036 PLANT (GROUP B).....	81.87	
50 89 83 20-0027	EA		CALTRANS 204038 PLANT (GROUP U).....	214.07	
50 89 83 20-0028	SY		CALTRANS 204045 SOD.....	20.53	
50 89 83 20-0029	SF		CALTRANS 205033 GRAVEL MULCH.....	1.08	
50 89 83 20-0030	SF		CALTRANS 205034 DECOMPOSED GRANITE.....	2.27	
50 89 83 20-0031	CY		CALTRANS 205035 WOOD MULCH.....	120.45	
			For >5 To 20, Deduct	-9.39	
			For >20 To 50, Deduct	-14.09	
			For >50, Deduct	-20.11	
50 89 83 20-0032	EA		CALTRANS 205051 FOLIAGE PROTECTOR.....	37.84	
50 89 83 20-0033	EA		CALTRANS 205052 ROOT PROTECTOR.....	26.63	
50 89 83 20-0034	LF		CALTRANS 205062 ROOT BARRIER.....	12.55	
50 89 83 20-0035	LF		CALTRANS 206005 EDGING.....	16.79	
50 89 83 20-0036	EA		CALTRANS 206561 3/4" REMOTE CONTROL VALVE.....	463.13	
50 89 83 20-0037	EA		CALTRANS 206562 1" REMOTE CONTROL VALVE.....	678.70	
50 89 83 20-0038	EA		CALTRANS 206563 1 1/4" REMOTE CONTROL VALVE.....	735.24	
50 89 83 20-0039	EA		CALTRANS 206564 1 1/2" REMOTE CONTROL VALVE.....	796.62	
50 89 83 20-0040	EA		CALTRANS 206565 2" REMOTE CONTROL VALVE.....	877.44	
50 89 83 20-0041	EA		CALTRANS 206566 2 1/2" REMOTE CONTROL VALVE.....	1,322.12	
50 89 83 20-0042	EA		CALTRANS 206567 3" REMOTE CONTROL VALVE.....	1,766.79	
50 89 83 20-0043	EA		CALTRANS 206571 REMOTE CONTROL VALVE WITH PRESSURE REGULATOR.....	966.06	
50 89 83 20-0044	EA		CALTRANS 206630 3/4" WYE STRAINER ASSEMBLY.....	417.49	
50 89 83 20-0045	EA		CALTRANS 206631 1" WYE STRAINER ASSEMBLY.....	449.05	
50 89 83 20-0046	EA		CALTRANS 206632 1 1/4" WYE STRAINER ASSEMBLY.....	495.73	
50 89 83 20-0047	EA		CALTRANS 206633 1 1/2" WYE STRAINER ASSEMBLY.....	522.79	
50 89 83 20-0048	EA		CALTRANS 206634 2" WYE STRAINER ASSEMBLY.....	613.24	
50 89 83 20-0049	EA		CALTRANS 206635 2-1/2" WYE STRAINER ASSEMBLY.....	898.05	
50 89 83 20-0050	EA		CALTRANS 206636 3" WYE STRAINER ASSEMBLY.....	1,037.03	
50 89 83 20-0051	EA		CALTRANS 206747 4 STATION IRRIGATION CONTROLLER (WALL MOUNTED).....	872.91	
50 89 83 20-0052	EA		CALTRANS 206749 8 STATION IRRIGATION CONTROLLER (WALL MOUNTED).....	1,214.21	
50 89 83 20-0053	EA		CALTRANS 206751 12 STATION IRRIGATION CONTROLLER (WALL MOUNTED).....	1,617.23	
50 89 83 20-0054	EA		CALTRANS 206757 16-18 STATION IRRIGATION CONTROLLER (WALL MOUNTED).....	2,070.10	
50 89 83 20-0055	EA		CALTRANS 206758 24-32 STATION IRRIGATION CONTROLLER (WALL MOUNTED).....	2,748.68	
50 89 83 20-0056	EA		CALTRANS 206759 30-42 STATION IRRIGATION CONTROLLER (WALL MOUNTED).....	3,424.13	
50 89 83 20-0057	LF		CALTRANS 207050 1/2" COPPER PIPE (SUPPLY LINE).....	12.98	
			For >1,000, Deduct	-0.65	
50 89 83 20-0058	LF		CALTRANS 207051 3/4" COPPER PIPE (SUPPLY LINE).....	17.65	
			For >1,000, Deduct	-0.88	
50 89 83 20-0059	LF		CALTRANS 207052 1" COPPER PIPE (SUPPLY LINE).....	21.92	
			For >1,000, Deduct	-1.10	
50 89 83 20-0060	LF		CALTRANS 207053 1 1/4" COPPER PIPE (SUPPLY LINE).....	28.24	
			For >1,000, Deduct	-1.41	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 83 20-0061 LF CALTRANS 207054 1 1/2" COPPER PIPE (SUPPLY LINE).....	34.23	
For >1,000, Deduct	-1.71	
50 89 83 20-0062 LF CALTRANS 207055 2" COPPER PIPE (SUPPLY LINE).....	47.26	
For >1,000, Deduct	-2.36	
50 89 83 20-0063 LF CALTRANS 207056 3" COPPER PIPE (SUPPLY LINE).....	92.52	
For >1,000, Deduct	-4.63	
50 89 83 20-0064 LF CALTRANS 207057 4" COPPER PIPE (SUPPLY LINE).....	147.57	
For >1,000, Deduct	-7.38	
50 89 83 20-0065 LF CALTRANS 207058 2 1/2" COPPER PIPE (SUPPLY LINE).....	63.27	
For >1,000, Deduct	-3.16	
50 89 83 20-0066 LF CALTRANS 208001 1/2" GALVANIZED PIPE (SUPPLY LINE).....	15.16	
For >1,000, Deduct	-0.76	
50 89 83 20-0067 LF CALTRANS 208002 3/4" GALVANIZED PIPE (SUPPLY LINE).....	17.77	
For >1,000, Deduct	-0.89	
50 89 83 20-0068 LF CALTRANS 208003 1" GALVANIZED PIPE (SUPPLY LINE).....	21.27	
For >1,000, Deduct	-1.06	
50 89 83 20-0069 LF CALTRANS 208004 1 1/4" GALVANIZED PIPE (SUPPLY LINE).....	25.47	
For >1,000, Deduct	-1.27	
50 89 83 20-0070 LF CALTRANS 208005 1 1/2" GALVANIZED PIPE (SUPPLY LINE).....	29.81	
For >1,000, Deduct	-1.49	
50 89 83 20-0071 LF CALTRANS 208006 2" GALVANIZED PIPE (SUPPLY LINE).....	38.04	
For >1,000, Deduct	-1.90	
50 89 83 20-0072 LF CALTRANS 208007 2 1/2" GALVANIZED PIPE (SUPPLY LINE).....	58.58	
For >1,000, Deduct	-2.93	
50 89 83 20-0073 LF CALTRANS 208008 3" GALVANIZED PIPE (SUPPLY LINE).....	81.49	
For >1,000, Deduct	-4.07	
50 89 83 20-0074 LF CALTRANS 208009 4" GALVANIZED PIPE (SUPPLY LINE).....	123.58	
For >1,000, Deduct	-6.18	
50 89 83 20-0075 LF CALTRANS 208026 2" SUPPLY LINE (BRIDGE).....	63.42	
50 89 83 20-0076 LF CALTRANS 208027 2 1/2" SUPPLY LINE (BRIDGE).....	79.29	
50 89 83 20-0077 LF CALTRANS 208028 3" SUPPLY LINE (BRIDGE).....	97.40	
50 89 83 20-0078 LF CALTRANS 208029 4" SUPPLY LINE (BRIDGE).....	142.59	
50 89 83 20-0079 LF CALTRANS 208030 6" SUPPLY LINE (BRIDGE).....	359.87	
50 89 83 20-0080 LF CALTRANS 208033 8" SUPPLY LINE (BRIDGE).....	769.07	
50 89 83 20-0081 LF CALTRANS 208042 2" GALVANIZED STEEL PIPE (SUPPLY LINE ON BRIDGE).....	45.17	
50 89 83 20-0082 LF CALTRANS 208043 2 1/2" GALVANIZED STEEL PIPE (SUPPLY LINE ON BRIDGE).....	66.21	
50 89 83 20-0083 LF CALTRANS 208044 3" GALVANIZED STEEL PIPE (SUPPLY LINE ON BRIDGE).....	81.72	
50 89 83 20-0084 LF CALTRANS 208046 4" GALVANIZED STEEL PIPE (SUPPLY LINE ON BRIDGE).....	123.20	
50 89 83 20-0085 LF CALTRANS 208220 1/2" DRIP IRRIGATION TUBING.....	2.96	
50 89 83 20-0086 LF CALTRANS 208221 3/4" DRIP IRRIGATION TUBING.....	3.15	
50 89 83 20-0087 EA CALTRANS 208301 IRRIGATION CONTROLLER ENCLOSURE CABINET.....	3,732.06	
50 89 83 20-0088 EA CALTRANS 208422 3/4" BACKFLOW PREVENTER ASSEMBLY.....	2,130.71	
50 89 83 20-0089 EA CALTRANS 208423 1" BACKFLOW PREVENTER ASSEMBLY.....	2,249.43	
50 89 83 20-0090 EA CALTRANS 208424 1 1/4" BACKFLOW PREVENTER ASSEMBLY.....	2,931.77	
50 89 83 20-0091 EA CALTRANS 208425 1 1/2" BACKFLOW PREVENTER ASSEMBLY.....	3,180.65	
50 89 83 20-0092 EA CALTRANS 208426 2" BACKFLOW PREVENTER ASSEMBLY.....	4,239.78	
50 89 83 20-0093 EA CALTRANS 208427 2 1/2" BACKFLOW PREVENTER ASSEMBLY.....	9,057.43	
50 89 83 20-0094 EA CALTRANS 208428 3" BACKFLOW PREVENTER ASSEMBLY.....	10,499.40	
50 89 83 20-0095 EA CALTRANS 208429 4" BACKFLOW PREVENTER ASSEMBLY.....	11,406.24	
50 89 83 20-0096 EA CALTRANS 208440 BACKFLOW PREVENTER ENCLOSURE.....	3,032.47	
50 89 83 20-0097 EA CALTRANS 208442 FLOW SENSOR.....	1,653.31	
50 89 83 20-0098 EA CALTRANS 208447 POP-UP SPRINKLER ASSEMBLY (GEAR DRIVEN).....	90.29	16.33
50 89 83 20-0099 EA CALTRANS 208448 RISER SPRINKLER ASSEMBLY.....	59.57	16.33
50 89 83 20-0100 EA CALTRANS 208449 POP-UP SPRINKLER ASSEMBLY.....	58.69	16.33
50 89 83 20-0101 EA CALTRANS 208562 CAM COUPLER ASSEMBLY.....	536.58	
50 89 83 20-0102 EA CALTRANS 208569 1/2" GATE VALVE.....	381.25	
50 89 83 20-0103 EA CALTRANS 208570 3/4" GATE VALVE.....	403.70	
50 89 83 20-0104 EA CALTRANS 208572 1" GATE VALVE.....	436.48	
50 89 83 20-0105 EA CALTRANS 208573 1 1/4" GATE VALVE.....	477.26	
50 89 83 20-0106 EA CALTRANS 208574 1 1/2" GATE VALVE.....	504.88	
50 89 83 20-0107 EA CALTRANS 208575 2" GATE VALVE.....	568.72	
50 89 83 20-0108 EA CALTRANS 208576 2 1/2" GATE VALVE.....	878.81	
50 89 83 20-0109 EA CALTRANS 208588 3" GATE VALVE.....	1,077.55	
50 89 83 20-0110 EA CALTRANS 208589 4" GATE VALVE.....	1,439.27	
50 89 83 20-0111 EA CALTRANS 208590 6" GATE VALVE.....	1,900.62	
50 89 83 20-0112 EA CALTRANS 208591 8" GATE VALVE.....	2,740.13	
50 89 83 20-0113 LF CALTRANS 208593 1/2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	7.11	
For Schedule 80, Add	0.21	
For >1,000, Deduct	-0.36	
50 89 83 20-0114 LF CALTRANS 208594 3/4" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	7.32	
For Schedule 80, Add	0.26	
For >1,000, Deduct	-0.37	
50 89 83 20-0115 LF CALTRANS 208595 1" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	8.34	
For Schedule 80, Add	0.42	
For >1,000, Deduct	-0.42	
50 89 83 20-0116 LF CALTRANS 208596 1 1/4" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	9.99	
For Schedule 80, Add	0.63	
For >1,000, Deduct	-0.50	
50 89 83 20-0117 LF CALTRANS 208597 1 1/2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE).....	10.25	
For Schedule 80, Add	0.84	
For >1,000, Deduct	-0.51	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 83 20-0118 LF CALTRANS 208598 2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	12.23	
For Schedule 80, Add	1.42	
For >1,000, Deduct	-0.61	
50 89 83 20-0119 LF CALTRANS 208599 2 1/2" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	14.94	
For Schedule 80, Add	1.83	
For >1,000, Deduct	-0.75	
50 89 83 20-0120 LF CALTRANS 208600 3" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	19.57	
For Schedule 80, Add	2.57	
For >1,000, Deduct	-0.98	
50 89 83 20-0121 LF CALTRANS 208601 4" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	24.81	
For Schedule 80, Add	3.93	
For >1,000, Deduct	-1.24	
50 89 83 20-0122 LF CALTRANS 208602 6" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	34.34	
For Schedule 80, Add	8.76	
For >1,000, Deduct	-1.72	
50 89 83 20-0123 LF CALTRANS 208603 8" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	41.79	
For Schedule 80, Add	13.42	
For >1,000, Deduct	-2.09	
50 89 83 20-0124 LF CALTRANS 208604 10" PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)	86.77	
For Schedule 80, Add	41.73	
For >1,000, Deduct	-4.34	
50 89 83 20-0125 LF CALTRANS 208605 2" PLASTIC PIPE (CLASS 315) (SUPPLY LINE)	12.96	
For >1,000, Deduct	-0.65	
50 89 83 20-0126 LF CALTRANS 208606 2 1/2" PLASTIC PIPE (CLASS 315) (SUPPLY LINE)	16.13	
For >1,000, Deduct	-0.81	
50 89 83 20-0127 LF CALTRANS 208607 3" PLASTIC PIPE (CLASS 315) (SUPPLY LINE)	19.57	
For >1,000, Deduct	-0.98	
50 89 83 20-0128 LF CALTRANS 208608 4" PLASTIC PIPE (CLASS 315) (SUPPLY LINE)	24.81	
For >1,000, Deduct	-1.24	
50 89 83 20-0129 LF CALTRANS 208609 6" PLASTIC PIPE (CLASS 315) (SUPPLY LINE)	34.88	
For >1,000, Deduct	-1.74	
50 89 83 20-0130 EA CALTRANS 208631 3/4" PRESSURE RELIEF VALVE	1,004.74	
50 89 83 20-0131 EA CALTRANS 208632 1 1/2" PRESSURE RELIEF VALVE	1,512.41	
50 89 83 20-0132 EA CALTRANS 208633 1" PRESSURE RELIEF VALVE	1,179.75	
50 89 83 20-0133 EA CALTRANS 208634 2" PRESSURE RELIEF VALVE	1,706.95	
50 89 83 20-0134 EA CALTRANS 208640 PRESSURE REGULATING VALVE (3/4")	298.72	
50 89 83 20-0135 EA CALTRANS 208640 PRESSURE REGULATING VALVE (1")	388.93	
50 89 83 20-0136 EA CALTRANS 208640 PRESSURE REGULATING VALVE (1-1/4")	656.70	
50 89 83 20-0137 EA CALTRANS 208640 PRESSURE REGULATING VALVE (1-1/2")	888.20	
50 89 83 20-0138 EA CALTRANS 208640 PRESSURE REGULATING VALVE (2")	1,275.22	
50 89 83 20-0139 EA CALTRANS 208649 QUICK COUPLING VALVE	605.43	
50 89 83 20-0140 EA CALTRANS 208670 1/2" CHECK VALVE	395.89	
50 89 83 20-0141 EA CALTRANS 208670 3/4" CHECK VALVE	422.02	
50 89 83 20-0142 EA CALTRANS 208670 1" CHECK VALVE	455.54	
50 89 83 20-0143 EA CALTRANS 208670 1 1/4" CHECK VALVE	507.21	
50 89 83 20-0144 EA CALTRANS 208670 1 1/2" CHECK VALVE	557.72	
50 89 83 20-0145 EA CALTRANS 208670 2" CHECK VALVE	628.76	
50 89 83 20-0146 EA CALTRANS 208670 2 1/2" CHECK VALVE	942.77	
50 89 83 20-0147 EA CALTRANS 208670 3" CHECK VALVE	1,118.76	
50 89 83 20-0148 EA CALTRANS 208670 4" CHECK VALVE	1,608.10	
50 89 83 20-0149 EA CALTRANS 208670 6" CHECK VALVE	2,255.91	
50 89 83 20-0150 EA CALTRANS 208670 8" CHECK VALVE	4,515.88	
50 89 83 20-0151 EA CALTRANS 208683 1/2" BALL VALVE	362.48	
50 89 83 20-0152 EA CALTRANS 208683 3/4" BALL VALVE	394.73	
50 89 83 20-0153 EA CALTRANS 208683 1" BALL VALVE	406.27	
50 89 83 20-0154 EA CALTRANS 208683 1 1/4" BALL VALVE	445.61	
50 89 83 20-0155 EA CALTRANS 208683 1 1/2" BALL VALVE	465.78	
50 89 83 20-0156 EA CALTRANS 208683 2" BALL VALVE	508.60	
50 89 83 20-0157 EA CALTRANS 208683 2 1/2" BALL VALVE	570.83	
50 89 83 20-0158 LF CALTRANS 208690 PVC PIPE CONDUIT (SLEEVE)	41.79	
For >1,000, Deduct	-2.09	
50 89 83 20-0159 LF CALTRANS 208702 8" ABS COMPOSITE PIPE CONDUIT	46.78	
For >1,000, Deduct	-2.34	
50 89 83 20-0160 LF CALTRANS 208703 10" ABS COMPOSITE PIPE CONDUIT	64.70	
For >1,000, Deduct	-3.24	
50 89 83 20-0161 LF CALTRANS 208738 8" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT	23.93	
50 89 83 20-0162 LF CALTRANS 208739 10" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT	30.49	
50 89 83 20-0163 LF CALTRANS 208740 12" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT	35.43	
50 89 83 20-0164 LF CALTRANS 208756 6" CORRUGATED STEEL PIPE CONDUIT (.064" THICK)	24.52	
50 89 83 20-0165 LF CALTRANS 208758 8" CORRUGATED STEEL PIPE CONDUIT (.064" THICK)	30.35	
50 89 83 20-0166 LF CALTRANS 208760 10" CORRUGATED STEEL PIPE CONDUIT (.064" THICK)	37.54	
50 89 83 20-0167 LF CALTRANS 208762 12" CORRUGATED STEEL PIPE CONDUIT (.064" THICK)	42.17	
50 89 83 20-0168 LF CALTRANS 208813 1 1/4" WELDED STEEL PIPE CONDUIT	29.40	
For >1,000, Deduct	-1.47	
50 89 83 20-0169 LF CALTRANS 208814 1 1/2" WELDED STEEL PIPE CONDUIT	34.70	
For >1,000, Deduct	-1.74	
50 89 83 20-0170 LF CALTRANS 208815 2" WELDED STEEL PIPE CONDUIT	40.29	
For >1,000, Deduct	-2.01	
50 89 83 20-0171 LF CALTRANS 208816 3" WELDED STEEL PIPE CONDUIT	55.70	
For >1,000, Deduct	-2.79	
50 89 83 20-0172 LF CALTRANS 208817 4" WELDED STEEL PIPE CONDUIT	76.01	
For >1,000, Deduct	-3.80	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 83 20-0173 LF CALTRANS 208818 6" WELDED STEEL PIPE CONDUIT 108.90 <i>For >1,000, Deduct</i> .....-5.45		
50 89 83 20-0174 LF CALTRANS 208819 8" WELDED STEEL PIPE CONDUIT 156.43 <i>For >1,000, Deduct</i> .....-7.82		
50 89 83 20-0175 LF CALTRANS 208820 10" WELDED STEEL PIPE CONDUIT 206.78 <i>For >1,000, Deduct</i> .....-10.34		
50 89 83 20-0176 LF CALTRANS 208821 12" WELDED STEEL PIPE CONDUIT 263.67 <i>For >1,000, Deduct</i> .....-13.18		
50 89 83 21 EROSION CONTROL (50 89 83)		
Note: Includes applying permanent erosion control measures to the soil surface per CALTRANS Standard.		
50 89 83 21-0001 EA CALTRANS 210010 MOVE-IN/MOVE-OUT (EROSION CONTROL) 354.13		
50 89 83 21-0002 CY CALTRANS 210110 IMPORTED TOPSOIL (CY) 94.91		
50 89 83 21-0003 TON CALTRANS 210111 IMPORTED TOPSOIL (TON) 118.63		
50 89 83 21-0004 SF CALTRANS 210212 DRY SEED (SQFT) 0.11		
50 89 83 21-0005 ACR CALTRANS 210213 DRY SEED (ACRE) 4,522.80 <i>For >5 To 20, Deduct</i> .....-319.55 <i>For >20 To 45, Deduct</i> .....-619.44 <i>For >45, Deduct</i> .....-1,012.74		
50 89 83 21-0006 SY CALTRANS 210222 DRILL SEED (SQYD) 0.36		
50 89 83 21-0007 ACR CALTRANS 210223 DRILL SEED (ACRE) 1,737.05		
50 89 83 21-0008 SF CALTRANS 210252 BONDED FIBER MATRIX (SQFT) 0.10		
50 89 83 21-0009 ACR CALTRANS 210253 BONDED FIBER MATRIX (ACRE) 4,008.75		
50 89 83 21-0010 SF CALTRANS 210260 ROLLED EROSION CONTROL PRODUCT (JUTE MESH) 0.48		
50 89 83 21-0011 SF CALTRANS 210270 ROLLED EROSION CONTROL PRODUCT (NETTING) 1.77		
50 89 83 21-0012 SF CALTRANS 210280 ROLLED EROSION CONTROL PRODUCT (BLANKET) 0.57		
50 89 83 21-0013 SF CALTRANS 210290 ROLLED EROSION CONTROL PRODUCT (TRM) 1.55		
50 89 83 21-0014 SF CALTRANS 210300 HYDROMULCH 0.10		
50 89 83 21-0015 LF CALTRANS 210350 FIBER ROLL 10.49 Note: 12" Diameter, Type 1 <i>For 9" Diameter, Deduct</i> .....-1.45 <i>For >1,000 To 10,000, Deduct</i> .....-0.93 <i>For >10,000, Deduct</i> .....-1.59		
50 89 83 21-0016 LF CALTRANS 210350 FIBER ROLL 8.86 Note: 12" Diameter, Type 2 <i>For 9" Diameter, Deduct</i> .....-1.45 <i>For >1,000 To 10,000, Deduct</i> .....-0.68 <i>For >10,000, Deduct</i> .....-1.18		
50 89 83 21-0017 LF CALTRANS 210360 COMPOST SOCK 10.92		
50 89 83 21-0018 SF CALTRANS 210420 STRAW 0.24		
50 89 83 21-0019 SF CALTRANS 210430 HYDROSEED 0.10		
50 89 83 21-0020 CY CALTRANS 210610 COMPOST (CY) 87.01 <i>For >100 To 1,000, Deduct</i> .....-14.45 <i>For >1,000, Deduct</i> .....-22.17		
50 89 83 21-0021 SF CALTRANS 210630 INCORPORATE MATERIALS 0.05		
50 89 84 CALTRANS DIVISION IV - SUBBASES AND BASES (50 89 80)		
50 89 84 24 STABILIZED SOILS (50 89 84)		
50 89 84 24-0001 SY CALTRANS 240105 LIME STABILIZED SOIL 19.32 <i>For 4% Lime Instead Of 5%, Deduct</i> .....-0.72 <i>For 6% Lime Instead Of 5%, Add</i> 0.72		
50 89 84 24-0002 SY CALTRANS 240300 CEMENT STABILIZED SOIL 13.38		
50 89 84 25 AGGREGATE SUBBASES (50 89 84)		
Note: Includes aggregate, placing aggregate subbase, water, geosynthetic materials, spreading, compacting per CALTRANS Standard.		
50 89 84 25-0001 CY CALTRANS 250101 CLASS 1 AGGREGATE SUBBASE 164.96		
50 89 84 25-0002 CY CALTRANS 250201 CLASS 2 AGGREGATE SUBBASE 88.16		
50 89 84 25-0003 CY CALTRANS 250301 CLASS 3 AGGREGATE SUBBASE 85.26		
50 89 84 25-0004 CY CALTRANS 250401 CLASS 4 AGGREGATE SUBBASE 85.23		
50 89 84 25-0005 CY CALTRANS 250501 CLASS 5 AGGREGATE SUBBASE 85.19		
50 89 84 26 AGGREGATE BASES (50 89 84)		
Note: Includes aggregate, placing aggregate, water, geosynthetic materials, spreading, compacting per CALTRANS Standard.		
50 89 84 26-0001 CY CALTRANS 260200 AGGREGATE BASE 163.95 <i>For Recycled Aggregate Base, Deduct</i> .....-14.03		
50 89 84 26-0002 TON CALTRANS 260202 CLASS 2 AGGREGATE BASE (TON) 84.53		
50 89 84 26-0003 CY CALTRANS 260203 CLASS 2 AGGREGATE BASE (CY) 88.16		
50 89 84 26-0004 TON CALTRANS 260302 CLASS 3 AGGREGATE BASE (TON) 80.57		
50 89 84 26-0005 CY CALTRANS 260303 CLASS 3 AGGREGATE BASE (CY) 85.26		
50 89 84 27 CEMENT TREATED BASES (50 89 84)		
Note: Includes aggregate, Type II portland cement, mixing, placing cement treated base, spreading, compaction, contact joints and curing per CALTRANS Standard.		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 84 27-0001	TON		CALTRANS 270002 CEMENT TREATED BASE (ROAD-MIXED, CLASS A) (TON).....	50.06	
			For Up To 500, Add	14.73	
			For >500 To 1,000, Add	5.01	
			For >5,000 To 10,000, Deduct	-1.90	
			For >10,000, Deduct	-3.25	
50 89 84 27-0002	CY		CALTRANS 270003 CEMENT TREATED BASE (ROAD-MIXED, CLASS A) (CY).....	67.80	
			For Up To 500, Add	19.97	
			For >500 To 1,000, Add	6.78	
			For >5,000 To 10,000, Deduct	-2.58	
			For >10,000, Deduct	-4.41	
50 89 84 27-0003	TON		CALTRANS 270013 CEMENT TREATED BASE (PLANT-MIXED, CLASS A) (TON).....	41.34	
			For Up To 500, Add	12.11	
			For >500 To 1,000, Add	4.13	
			For >5,000 To 10,000, Deduct	-1.57	
			For >10,000, Deduct	-2.69	
50 89 84 27-0004	CY		CALTRANS 270014 CEMENT TREATED BASE (PLANT-MIXED, CLASS A) (CY).....	59.07	
			For Up To 500, Add	17.35	
			For >500 To 1,000, Add	5.91	
			For >5,000 To 10,000, Deduct	-2.24	
			For >10,000, Deduct	-3.84	
50 89 84 28			CONCRETE BASES (50 89 84)		
			Note: Includes constructing concrete bases and placing concrete per CALTRAN Standard.		
50 89 84 28-0001	CY		CALTRANS 280001 CONCRETE BASE.....	301.23	
50 89 84 29			TREATED PERMEABLE BASES (50 89 84)		
			Note: Includes constructing treated permeable bases, spreading, and placement per CALTRAN Standard.		
50 89 84 29-0001	CY		CALTRANS 290301 CEMENT TREATED PERMEABLE BASE.....	928.27	
			For >5,000 To 30,000, Deduct	-98.57	
			For >30,000 To 100,000, Deduct	-179.67	
			For >100,000, Deduct	-223.14	
50 89 84 30			RECLAIMED PAVEMENT (50 89 84)		
			Note: Includes constructing reclaimed pavement bases, surface preparation, grading, compaction, finishing and placement per CALTRAN Standard.		
50 89 84 30-0001	SF		CALTRANS 300100 FULL DEPTH RECLAMATION-FOAMED ASPHALT.....	24.24	
50 89 84 30-0002	SY		CALTRANS 303000 PULVERIZED ROADBED.....	5.00	
50 89 85			CALTRANS DIVISION V - SURFACINGS AND PAVEMENTS (50 89 80)		
50 89 85 37			BITUMINOUS SEALS (50 89 85)		
			Note: Includes applying bituminous seals, surface preparation, placement, spreading, finishing and seal coat per CALTRAN Standard.		
50 89 85 37-0001	SY		CALTRANS 370001 SAND COVER (SEAL).....	1.41	
50 89 85 37-0002	SY		CALTRANS 374002 ASPHALTIC EMULSION (FOG SEAL COAT).....	0.75	
50 89 85 37-0003	LNMI		CALTRANS 374207 CRACK TREATMENT.....	6,418.01	
50 89 85 37-0004	SY		CALTRANS 374491 NONPOLYMER ASPHALTIC EMULSION (SEAL COAT).....	4.87	
50 89 85 37-0005	SY		CALTRANS 374493 POLYMER ASPHALTIC EMULSION (SEAL COAT).....	8.89	
50 89 85 37-0006	TON		CALTRANS 375001 SCREENINGS.....	116.49	
			For Up To 14, Add	32.93	
			For >14 To 35, Add	11.65	
50 89 85 37-0007	SY		CALTRANS 375009 TACK COAT (SEAL).....	1.21	
			For Up To 150, Add	0.27	
			For >150 To 300, Add	0.12	
			For >300 To 500, Add	0.06	
			For >3,500 To 5,000, Deduct	-0.03	
			For >5,000, Deduct	-0.08	
50 89 85 37-0008	SY		CALTRANS 377501 SLURRY SEAL (TYPE I).....	2.99	
			Note: 1/8" thick.		
			For Each 0.5% Of Latex Addition, Add	0.24	
50 89 85 37-0009	SY		CALTRANS 377501 SLURRY SEAL (TYPE II).....	3.93	
			Note: 1/4" thick, 14 to 18 Lbs/SY.		
			For Each 0.5% Of Latex Addition, Add	0.36	
50 89 85 37-0010	SY		CALTRANS 377501 SLURRY SEAL (TYPE III).....	5.08	
			Note: 3/8" thick, 25 to 30 Lbs/SY.		
			For Each 0.5% Of Latex Addition, Add	0.58	
50 89 85 37-0011	SY		CALTRANS 378000 MICRO-SURFACING.....	9.98	
50 89 85 39			ASPHALT CONCRETE (50 89 85)		
			Note: Includes hot mix asphalt, preparation, placement, finishing, compaction and testing per CALTRAN Standard.		
50 89 85 39-0001	TON		CALTRANS 390100 PRIME COAT.....	1,750.80	
50 89 85 39-0002	TON		CALTRANS 390132 HOT MIX ASPHALT (TYPE A) (Up To 25).....	180.49	
50 89 85 39-0003	TON		CALTRANS 390132 HOT MIX ASPHALT (TYPE A) (>25 To 100).....	170.63	
50 89 85 39-0004	TON		CALTRANS 390132 HOT MIX ASPHALT (TYPE A) (>100-250).....	155.17	
50 89 85 39-0005	TON		CALTRANS 390132 HOT MIX ASPHALT (TYPE A) (>250).....	147.40	
50 89 85 39-0006	TON		CALTRANS 390135 HOT MIX ASPHALT (LEVELING) (UP To 25).....	292.47	
50 89 85 39-0007	TON		CALTRANS 390135 HOT MIX ASPHALT (LEVELING) (>25 - 100).....	256.61	
50 89 85 39-0008	TON		CALTRANS 390135 HOT MIX ASPHALT (LEVELING) (>100 - 250).....	220.37	
50 89 85 39-0009	TON		CALTRANS 390135 HOT MIX ASPHALT (LEVELING) (>250).....	187.21	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 85 39-0010 TON CALTRANS 390136 MINOR HOT MIX ASPHALT (UP TO 25)	300.13	
50 89 85 39-0011 TON CALTRANS 390137 RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	183.75	
Note: Includes placement, rolling, finishing and sweeping.		
50 89 85 39-0012 SY CALTRANS 393004 GEOSYNTHETIC PAVEMENT INTERLAYER (PAVING FABRIC).....	2.33	
Note: 4.1 Oz/SY, 100# 1-Inch Grab Tensile, Nonwoven Polypropylene		
For Up To 50, Add	0.51	
For >50 To 150, Add	0.38	
For >150 To 250, Add	0.25	
For >250 To 500, Add	0.12	
50 89 85 39-0013 LF CALTRANS 394072 PLACE HOT MIX ASPHALT DIKE (TYPE B)	9.82	
50 89 85 39-0014 LF CALTRANS 394073 PLACE HOT MIX ASPHALT DIKE (TYPE A)	7.14	
50 89 85 39-0015 LF CALTRANS 394074 PLACE HOT MIX ASPHALT DIKE (TYPE C)	3.74	
50 89 85 39-0016 LF CALTRANS 394075 PLACE HOT MIX ASPHALT DIKE (TYPE D)	15.74	
50 89 85 39-0017 LF CALTRANS 394076 PLACE HOT MIX ASPHALT DIKE (TYPE E)	10.20	
50 89 85 39-0018 LF CALTRANS 394077 PLACE HOT MIX ASPHALT DIKE (TYPE F)	5.48	
50 89 85 39-0019 SY CALTRANS 394090 PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA) Up To 2"	17.17	
For Up To 500, Add	2.60	
For >500 To 1,000, Add	1.47	
For >5,000 To 10,000, Deduct	-0.71	
For >10,000 To 24,000, Deduct	-1.30	
For >24,000 To 48,000, Deduct	-2.01	
For >48,000, Deduct	-2.89	
50 89 85 39-0020 SY CALTRANS 394090 PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA) >2" To 3"	24.13	
For Up To 300, Add	3.45	
For >300 To 600, Add	2.84	
For >3,000 To 6,000, Deduct	-1.03	
For >6,000 To 16,000, Deduct	-1.88	
For >16,000 To 32,000, Deduct	-2.92	
For >32,000, Deduct	-4.19	
50 89 85 39-0021 SY CALTRANS 394090 PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA) >3" To 4"	33.03	
For Up To 250, Add	4.41	
For >250 To 500, Add	2.42	
For >2,500 To 5,000, Deduct	-1.47	
For >5,000 To 12,000, Deduct	-2.67	
For >12,000 To 24,000, Deduct	-4.13	
For >24,000, Deduct	-5.93	
50 89 85 39-0022 SY CALTRANS 394090 PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA) >4" To 6"	49.55	
For Up To 160, Add	6.61	
For >160 To 320, Add	3.63	
For >1,600 To 3,200, Deduct	-2.20	
For >3,200 To 8,000, Deduct	-4.00	
For >8,000 To 16,000, Deduct	-6.20	
For >16,000, Deduct	-8.90	
50 89 85 39-0023 TON CALTRANS 395020 RUBBERIZED HOT MIX ASPHALT-GAP GRADED (BONDED WEARING COURSE).....	183.75	
50 89 85 39-0024 TON CALTRANS 397005 TACK COAT	1,065.92	
50 89 85 39-0025 SF CALTRANS 398000 REMOVE ASPHALT CONCRETE PAVEMENT (CY).....	189.79	
For >500 To 1,000, Deduct	-18.98	
For >1,000 To 2,500, Deduct	-34.16	
For >2,500 To 5,000, Deduct	-49.35	
For >5,000 To 10,000, Deduct	-64.53	
For >10,000, Deduct	-79.71	
50 89 85 39-0026 SF CALTRANS 398001 REMOVE ASPHALT CONCRETE PAVEMENT (SQFT)	3.21	
For >500 To 1,000, Deduct	-0.32	
For >1,000 To 2,500, Deduct	-0.58	
For >2,500 To 5,000, Deduct	-0.83	
For >5,000 To 10,000, Deduct	-1.09	
For >10,000, Deduct	-1.35	
50 89 85 39-0027 LF CALTRANS 398100 REMOVE ASPHALT CONCRETE DIKE.....	5.44	
50 89 85 39-0028 SY CALTRANS 398200 COLD PLANE ASPHALT CONCRETE PAVEMENT (Up To 3").....	4.48	
For Up To 2,500, Add	3.36	
For >2,500 To 5,000, Add	1.12	
For >10,000 To 25,000, Deduct	-0.45	
For >25,000, Deduct	-0.67	
50 89 85 39-0029 SY CALTRANS 398200 COLD PLANE ASPHALT CONCRETE PAVEMENT (>3" To 6").....	5.98	
For Up To 2,500, Add	4.49	
For >2,500 To 5,000, Add	1.50	
For >10,000 To 25,000, Deduct	-0.60	
For >25,000, Deduct	-0.90	

50 89 85 40 CONCRETE PAVEMENT (50 89 85)

Note: Includes concrete pavement, reinforcing, placement, finishing, compaction and testing per CALTRAN Standard.

50 89 85 40-0001 CY CALTRANS 400050 CONTINUOUSLY REINFORCED CONCRETE PAVEMENT	433.85	
For >1,000 To 5,000, Deduct	-17.46	
For >5,000, Deduct	-47.88	
50 89 85 40-0002 CY CALTRANS 401050 JOINTED PLAIN CONCRETE PAVEMENT	420.67	
For >1,000 To 5,000, Deduct	-17.46	
For >5,000, Deduct	-47.23	

50 89 85 41 EXISTING CONCRETE PAVEMENT (50 89 85)

Note: Includes work on existing concrete pavement, placement and finishing per CALTRAN Standard.

50 89 85 41-0001 EA CALTRANS 410096 DRILL AND BOND (DOWEL BAR)	30.16	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 85 41-0002 SY CALTRANS 410121 SPALL REPAIR (FAST-SETTING CONCRETE).....	433.51	
For Up To 100, Add	529.52	
For >100 To 250, Add	264.76	
50 89 85 41-0003 LF CALTRANS 414220 REPLACE JOINT SEAL (ASPHALT RUBBER).....	7.96	
50 89 85 41-0004 LF CALTRANS 414221 REPLACE JOINT SEAL (SILICONE).....	7.61	
50 89 85 41-0005 LF CALTRANS 414222 REPLACE JOINT SEAL (PREFORMED COMPRESSION, 7/16" TO 13/16").....	13.17	
50 89 85 41-0006 LF CALTRANS 414223 REPLACE JOINT SEAL (PREFORMED COMPRESSION, 1" TO 1-1/4").....	15.31	
50 89 85 41-0007 LF CALTRANS 414224 REPLACE JOINT SEAL (PREFORMED COMPRESSION, 1-5/8" TO 2").....	22.28	
50 89 85 41-0008 LF CALTRANS 414241 ISOLATION JOINT SEAL (SILICONE).....	11.45	
50 89 85 41-0009 LF CALTRANS 414242 ISOLATION JOINT SEAL (PREFORMED COMPRESSION).....	13.30	
50 89 85 41-0010 SY CALTRANS 416101 PAVEMENT TRANSITION TAPER.....	70.02	
For Up To 100, Add	25.44	
For >100 To 250, Add	14.79	
For >250 To 500, Add	7.40	
For >1,000 To 2,000, Deduct	-2.07	
For >2,000 To 5,000, Deduct	-3.82	
For >5,000 To 10,000, Deduct	-5.57	
For >10,000 To 20,000, Deduct	-7.32	
For >20,000, Deduct	-9.07	
50 89 85 41-0011 CY CALTRANS 418002 REMOVE CONCRETE PAVEMENT AND BASE.....	46.25	
50 89 85 41-0012 SY CALTRANS 418005 REMOVE CONCRETE PAVEMENT (SQYD).....	23.01	
For >500 To 1,000, Deduct	-2.30	
For >1,000 To 2,500, Deduct	-4.14	
For >2,500 To 5,000, Deduct	-5.98	
For >5,000 To 10,000, Deduct	-7.82	
For >10,000, Deduct	-9.66	
50 89 85 42 GROOVE AND GRIND CONCRETE (50 89 85)		
Note: Includes grooving and grinding concrete roadway surfaces per CALTRAN Standard.		
50 89 85 42-0001 SY CALTRANS 420102 GROOVE EXISTING CONCRETE PAVEMENT.....	1.72	
50 89 85 42-0002 SY CALTRANS 420104 GROOVE EXISTING BRIDGE DECK.....	2.58	
50 89 85 42-0003 SY CALTRANS 420201 GRIND EXISTING CONCRETE PAVEMENT.....	4.48	
For Up To 2,500, Add	3.36	
For >2,500 To 5,000, Add	1.12	
For >10,000 To 25,000, Deduct	-0.45	
For >25,000, Deduct	-0.67	
50 89 85 42-0004 SY CALTRANS 420203 GRIND EXISTING BRIDGE DECK.....	28.33	
For >100 To 1,000, Deduct	-14.17	
For >1,000, Deduct	-21.25	
50 89 86 CALTRANS DIVISION VI - STRUCTURES (50 89 86)		
50 89 86 47 EARTH RETAINING SYSTEMS (50 89 86)		
50 89 86 47-0001 SF CALTRANS 475010 RETAINING WALL (MASONRY WALL).....	58.38	8.73
For >3:1 Sloped Soil At Top, Add	3.48	
50 89 86 56 OVERHEAD SIGN STRUCTURES, STANDARDS, AND POLES (50 89 86)		
50 89 86 56-0001 SF CALTRANS 560248 FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-UNFRAMED).....	18.47	23.59
50 89 86 60 EXISTING STRUCTURES (50 89 86)		
50 89 86 60-0001 LF CALTRANS 600063 CORE CONCRETE (1").....	117.41	
For Horizontal Cores, Add	23.21	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	46.42	
50 89 86 60-0002 LF CALTRANS 600064 CORE CONCRETE (2").....	144.62	
For Horizontal Cores, Add	28.65	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	57.30	
50 89 86 60-0003 LF CALTRANS 600065 CORE CONCRETE (3").....	158.75	
For Horizontal Cores, Add	31.37	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	62.74	
50 89 86 60-0004 LF CALTRANS 600066 CORE CONCRETE (4").....	211.61	
For Horizontal Cores, Add	41.83	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	83.66	
50 89 86 60-0005 LF CALTRANS 600067 CORE CONCRETE (5").....	243.68	
For Horizontal Cores, Add	48.13	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	96.26	
50 89 86 60-0006 LF CALTRANS 600068 CORE CONCRETE (6").....	275.20	
For Horizontal Cores, Add	54.44	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	108.87	
50 89 86 60-0007 LF CALTRANS 600069 CORE CONCRETE (7").....	360.10	
For Horizontal Cores, Add	71.20	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	142.39	
50 89 86 60-0008 LF CALTRANS 600070 CORE CONCRETE (8").....	443.91	
For Horizontal Cores, Add	87.96	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	175.92	
50 89 86 60-0009 LF CALTRANS 600071 CORE CONCRETE (9").....	51.10	
For Horizontal Cores, Add	9.12	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	18.25	
50 89 86 60-0010 LF CALTRANS 600072 CORE CONCRETE (10").....	478.21	
For Horizontal Cores, Add	94.55	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	189.09	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 86 60-0011 LF CALTRANS 600074 CORE CONCRETE (12").....	550.93	
For Horizontal Cores, Add	108.87	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	217.74	
50 89 86 60-0012 LF CALTRANS 600081 CORE CONCRETE (1 1/2").....	130.30	
For Horizontal Cores, Add	25.79	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	51.57	
50 89 86 60-0013 LF CALTRANS 600083 CORE CONCRETE (2 1/2").....	151.95	
For Horizontal Cores, Add	30.01	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	60.02	
50 89 87 CALTRANS DIVISION VII - DRAINAGE FACILITIES (50 89 80)		
50 89 87 64 PLASTIC PIPE (50 89 87)		
Note: Includes installing plastic pipe, excavation, backfill, compaction, connection of new pipe to new or existing facilities, reinforcement, concrete collars or tees, testing, and other connecting devices per CALTRANS Standard.		
50 89 87 64-0001 LF CALTRANS 641101 12" PLASTIC PIPE	56.28	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 64-0002 LF CALTRANS 641104 15" PLASTIC PIPE	71.45	
Note: Includes 0.53 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 64-0003 LF CALTRANS 641107 18" PLASTIC PIPE	92.31	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 64-0004 LF CALTRANS 641110 21" PLASTIC PIPE	110.03	
Note: Includes 0.80 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 64-0005 LF CALTRANS 641113 24" PLASTIC PIPE	129.50	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 64-0006 LF CALTRANS 641119 30" PLASTIC PIPE	189.75	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 64-0007 LF CALTRANS 641125 36" PLASTIC PIPE	231.15	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 64-0008 LF CALTRANS 641128 42" PLASTIC PIPE	276.40	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 64-0009 LF CALTRANS 641131 48" PLASTIC PIPE	336.07	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65 CONCRETE PIPE (50 89 87)		
Note: Includes installing concrete pipe, excavation, backfill, compaction, connection of new pipe to new or existing facilities, reinforcement, concrete collars or tees, testing, and other connecting devices per CALTRANS Standard.		
50 89 87 65-0001 LF CALTRANS 650010 12" REINFORCED CONCRETE PIPE.....	63.88	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-3.19	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0002 LF CALTRANS 650012 15" REINFORCED CONCRETE PIPE.....	79.51	
Note: Includes 0.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-3.98	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0003 LF CALTRANS 650014 18" REINFORCED CONCRETE PIPE.....	90.87	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-4.54	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0004 LF CALTRANS 650016 21" REINFORCED CONCRETE PIPE.....	117.12	
Note: Includes 0.80 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-5.86	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0005 LF CALTRANS 650018 24" REINFORCED CONCRETE PIPE.....	135.25	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-6.76	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 65-0006 LF CALTRANS 650019 27" REINFORCED CONCRETE PIPE.....	166.43	
Note: Includes 0.98 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-8.32	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0007 LF CALTRANS 650022 30" REINFORCED CONCRETE PIPE.....	178.02	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-8.90	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0008 LF CALTRANS 650024 33" REINFORCED CONCRETE PIPE.....	199.02	
Note: Includes 1.19 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-9.95	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0009 LF CALTRANS 650026 36" REINFORCED CONCRETE PIPE.....	219.83	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-10.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0010 LF CALTRANS 650030 42" REINFORCED CONCRETE PIPE.....	284.40	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-14.22	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0011 LF CALTRANS 650034 48" REINFORCED CONCRETE PIPE.....	341.60	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-17.08	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0012 LF CALTRANS 650038 54" REINFORCED CONCRETE PIPE.....	420.57	
Note: Includes 2.05 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-21.03	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0013 LF CALTRANS 650042 60" REINFORCED CONCRETE PIPE.....	505.01	
Note: Includes 2.33 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-25.25	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0014 LF CALTRANS 650046 66" REINFORCED CONCRETE PIPE.....	753.44	
Note: Includes 2.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-37.67	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0015 LF CALTRANS 650050 72" REINFORCED CONCRETE PIPE.....	875.25	
Note: Includes 2.96 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-43.76	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0016 LF CALTRANS 650054 78" REINFORCED CONCRETE PIPE.....	1,045.55	
Note: Includes 3.31 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-52.28	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0017 LF CALTRANS 650058 84" REINFORCED CONCRETE PIPE.....	1,332.36	
Note: Includes 3.67 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-66.62	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0018 LF CALTRANS 650065 96" REINFORCED CONCRETE PIPE.....	1,626.50	
Note: Includes 4.44 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-81.33	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0019 LF CALTRANS 650211 18" REINFORCED CONCRETE PIPE (CLASS II).....	88.89	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-4.44	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0020 LF CALTRANS 650220 30" REINFORCED CONCRETE PIPE (CLASS II).....	174.04	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-8.70	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0021 LF CALTRANS 650222 33" REINFORCED CONCRETE PIPE (CLASS II).....	194.32	
Note: Includes 1.19 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-9.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0022 LF CALTRANS 650224 36" REINFORCED CONCRETE PIPE (CLASS II).....	214.42	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-10.72	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 65-0023 LF CALTRANS 650307 12" REINFORCED CONCRETE PIPE (CLASS III).....	63.88	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-3.19	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0024 LF CALTRANS 650309 15" REINFORCED CONCRETE PIPE (CLASS III).....	79.51	
Note: Includes 0.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-3.98	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0025 LF CALTRANS 650311 18" REINFORCED CONCRETE PIPE (CLASS III).....	90.87	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-4.54	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0026 LF CALTRANS 650316 24" REINFORCED CONCRETE PIPE (CLASS III).....	135.25	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-6.76	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0027 LF CALTRANS 650318 27" REINFORCED CONCRETE PIPE (CLASS III).....	166.43	
Note: Includes 0.98 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-8.32	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0028 LF CALTRANS 650320 30" REINFORCED CONCRETE PIPE (CLASS III).....	178.02	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-8.90	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0029 LF CALTRANS 650324 36" REINFORCED CONCRETE PIPE (CLASS III).....	219.83	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-10.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0030 LF CALTRANS 650328 42" REINFORCED CONCRETE PIPE (CLASS III).....	284.40	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-14.22	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0031 LF CALTRANS 650336 54" REINFORCED CONCRETE PIPE (CLASS III).....	420.57	
Note: Includes 2.05 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-21.03	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0032 LF CALTRANS 650407 12" REINFORCED CONCRETE PIPE (CLASS IV).....	66.68	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-3.33	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0033 LF CALTRANS 650409 15" REINFORCED CONCRETE PIPE (CLASS IV).....	83.10	
Note: Includes 0.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-4.16	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0034 LF CALTRANS 650411 18" REINFORCED CONCRETE PIPE (CLASS IV).....	94.64	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-4.73	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0035 LF CALTRANS 650416 24" REINFORCED CONCRETE PIPE (CLASS IV).....	140.80	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-7.04	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0036 LF CALTRANS 650420 30" REINFORCED CONCRETE PIPE (CLASS IV).....	185.60	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-9.28	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0037 LF CALTRANS 650424 36" REINFORCED CONCRETE PIPE (CLASS IV).....	230.10	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-11.51	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0038 LF CALTRANS 650432 48" REINFORCED CONCRETE PIPE (CLASS IV).....	360.04	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-18.00	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0039 LF CALTRANS 650436 54" REINFORCED CONCRETE PIPE (CLASS IV).....	444.50	
Note: Includes 2.05 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-22.23	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	



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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 65-0040	LF	CALTRANS 650440 60" REINFORCED CONCRETE PIPE (CLASS IV) Note: Includes 2.33 CY of excavated material per LF of pipe. For >1,000, Deduct For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	534.45 -26.72 1.27 0.80	
50 89 87 65-0041	LF	CALTRANS 650507 12" REINFORCED CONCRETE PIPE (CLASS V) Note: Includes 0.37 CY of excavated material per LF of pipe. For >1,000, Deduct For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	69.77 -3.49 1.27 0.80	
50 89 87 65-0042	LF	CALTRANS 650511 18" REINFORCED CONCRETE PIPE (CLASS V) Note: Includes 0.64 CY of excavated material per LF of pipe. For >1,000, Deduct For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	98.81 -4.94 1.27 0.80	
50 89 87 65-0043	LF	CALTRANS 650516 24" REINFORCED CONCRETE PIPE (CLASS V) Note: Includes 0.89 CY of excavated material per LF of pipe. For >1,000, Deduct For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	146.93 -7.35 1.27 0.80	
50 89 87 65-0044	LF	CALTRANS 650520 30" REINFORCED CONCRETE PIPE (CLASS V) Note: Includes 1.08 CY of excavated material per LF of pipe. For >1,000, Deduct For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	178.02 -8.90 1.27 0.80	
50 89 87 65-0045	LF	CALTRANS 650524 36" REINFORCED CONCRETE PIPE (CLASS V) Note: Includes 1.30 CY of excavated material per LF of pipe. For >1,000, Deduct For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	241.45 -12.07 1.27 0.80	
50 89 87 65-0046	LF	CALTRANS 650528 42" REINFORCED CONCRETE PIPE (CLASS V) Note: Includes 1.53 CY of excavated material per LF of pipe. For >1,000, Deduct For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	284.40 -14.22 1.27 0.80	
50 89 87 65-0047	LF	CALTRANS 650536 54" REINFORCED CONCRETE PIPE (CLASS V) Note: Includes 2.05 CY of excavated material per LF of pipe. For >1,000, Deduct For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	470.96 -23.55 1.27 0.80	
50 89 87 65-0048	LF	CALTRANS 650540 60" REINFORCED CONCRETE PIPE (CLASS V) Note: Includes 2.33 CY of excavated material per LF of pipe. For >1,000, Deduct For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	505.01 -25.25 1.27 0.80	
50 89 87 65-0049	LF	CALTRANS 650548 72" REINFORCED CONCRETE PIPE (CLASS V) Note: Includes 2.96 CY of excavated material per LF of pipe. For >1,000, Deduct For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	875.25 -43.76 1.27 0.80	
50 89 87 65-0050	LF	CALTRANS 652207 12" REINFORCED CONCRETE PIPE (CLASS II, RUBBER GASKET JOINT) Note: Includes 0.37 CY of excavated material per LF of pipe. For >1,000, Deduct For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	63.18 -3.16 1.27 0.80	
50 89 87 65-0051	LF	CALTRANS 652215 24" REINFORCED CONCRETE PIPE (CLASS II, RUBBER GASKET JOINT) Note: Includes 0.89 CY of excavated material per LF of pipe. For >1,000, Deduct For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	136.42 -6.82 1.27 0.80	
50 89 87 65-0052	LF	CALTRANS 652307 12" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT) Note: Includes 0.37 CY of excavated material per LF of pipe. For >1,000, Deduct For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	66.09 -3.30 1.27 0.80	
50 89 87 65-0053	LF	CALTRANS 652311 18" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT) Note: Includes 0.64 CY of excavated material per LF of pipe. For >1,000, Deduct For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	93.85 -4.69 1.27 0.80	
50 89 87 65-0054	LF	CALTRANS 652314 21" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT) Note: Includes 0.80 CY of excavated material per LF of pipe. For >1,000, Deduct For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	120.99 -6.05 1.27 0.80	
50 89 87 65-0055	LF	CALTRANS 652316 24" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT) Note: Includes 0.89 CY of excavated material per LF of pipe. For >1,000, Deduct For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	139.63 -6.98 1.27 0.80	
50 89 87 65-0056	LF	CALTRANS 652320 30" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT) Note: Includes 1.08 CY of excavated material per LF of pipe. For >1,000, Deduct For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	184.00 -9.20 1.27 0.80	

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50 89 87 65-0057 LF CALTRANS 652324 36" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT).....	227.94	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-11.40	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0058 LF CALTRANS 652332 42" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT).....	296.13	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-14.81	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0059 LF CALTRANS 652332 48" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT).....	356.15	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-17.81	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0060 LF CALTRANS 652348 72" REINFORCED CONCRETE PIPE (CLASS III, RUBBER GASKET JOINT).....	923.11	
Note: Includes 2.96 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-46.16	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0061 LF CALTRANS 652416 24" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT).....	145.59	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-7.28	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0062 LF CALTRANS 652420 30" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT).....	192.13	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-9.61	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0063 LF CALTRANS 652424 36" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT).....	238.96	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-11.95	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0064 LF CALTRANS 652428 42" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT).....	312.09	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-15.60	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0065 LF CALTRANS 652444 66" REINFORCED CONCRETE PIPE (CLASS IV, RUBBER GASKET JOINT).....	848.58	
Note: Includes 2.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-42.43	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0066 LF CALTRANS 654311 18" REINFORCED CONCRETE PRESSURE PIPE (CLASS III).....	155.96	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-7.80	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0067 LF CALTRANS 654316 24" REINFORCED CONCRETE PRESSURE PIPE (CLASS III).....	192.06	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-9.60	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0068 LF CALTRANS 654324 36" REINFORCED CONCRETE PRESSURE PIPE (CLASS III).....	253.95	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-12.70	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0069 LF CALTRANS 657213 24" X 38" OVAL SHAPED REINFORCED CONCRETE PIPE (CLASS II).....	265.71	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-13.29	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0070 LF CALTRANS 657329 34" X 53" OVAL SHAPED REINFORCED CONCRETE PIPE (CLASS III).....	459.89	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-22.99	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0071 LF CALTRANS 659108 18" NON-REINFORCED CONCRETE PIPE.....	82.93	
Note: Includes 0.64 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-4.15	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0072 LF CALTRANS 659109 24" NON-REINFORCED CONCRETE PIPE.....	123.57	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-6.18	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 65-0073 LF CALTRANS 659110 30" NON-REINFORCED CONCRETE PIPE.....	162.08	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For >1,000, Deduct	-8.10	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	



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50 89 87 65-0074	LF	CALTRANS 659111 36" NON-REINFORCED CONCRETE PIPE Note: Includes 1.30 CY of excavated material per LF of pipe. For >1,000, Deduct For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	198.20 -9.91 1.27 0.80	
50 89 87 66 CORRUGATED METAL PIPE (50 89 87)				
Note: Includes installing corrugated metal pipe and pipe arches, excavation, backfill, compaction, connection of new pipe to new or existing facilities, reinforcement, concrete collars or tees, testing, and other connecting devices per CALTRANS Standard.				
50 89 87 66-0001	LF	CALTRANS 665002 6" CORRUGATED STEEL PIPE (.064" THICK) Note: Includes 0.29 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	25.13 1.27 0.80	
50 89 87 66-0002	LF	CALTRANS 665003 6" CORRUGATED STEEL PIPE (.079" THICK) Note: Includes 0.29 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	26.88 1.27 0.80	
50 89 87 66-0003	LF	CALTRANS 665005 8" CORRUGATED STEEL PIPE (.064" THICK) Note: Includes 0.29 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	33.96 1.27 0.80	
50 89 87 66-0004	LF	CALTRANS 665006 8" CORRUGATED STEEL PIPE (.079" THICK) Note: Includes 0.29 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	36.26 1.27 0.80	
50 89 87 66-0005	LF	CALTRANS 665008 10" CORRUGATED STEEL PIPE (.064" THICK) Note: Includes 0.32 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	41.68 1.27 0.80	
50 89 87 66-0006	LF	CALTRANS 665009 10" CORRUGATED STEEL PIPE (.079" THICK) Note: Includes 0.32 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	43.56 1.27 0.80	
50 89 87 66-0007	LF	CALTRANS 665011 12" CORRUGATED STEEL PIPE (.064" THICK) Note: Includes 0.37 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	46.80 1.27 0.80	
50 89 87 66-0008	LF	CALTRANS 665012 12" CORRUGATED STEEL PIPE (.079" THICK) Note: Includes 0.37 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	49.80 1.27 0.80	
50 89 87 66-0009	LF	CALTRANS 665013 15" CORRUGATED STEEL PIPE (.064" THICK) Note: Includes 0.53 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	58.28 1.27 0.80	
50 89 87 66-0010	LF	CALTRANS 665014 15" CORRUGATED STEEL PIPE (.079" THICK) Note: Includes 0.53 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	61.98 1.27 0.80	
50 89 87 66-0011	LF	CALTRANS 665015 15" CORRUGATED STEEL PIPE (.109" THICK) Note: Includes 0.53 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	69.60 1.27 0.80	
50 89 87 66-0012	LF	CALTRANS 665016 18" CORRUGATED STEEL PIPE (.064" THICK) Note: Includes 0.64 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	67.67 1.27 0.80	
50 89 87 66-0013	LF	CALTRANS 665017 18" CORRUGATED STEEL PIPE (.079" THICK) Note: Includes 0.64 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	72.14 1.27 0.80	
50 89 87 66-0014	LF	CALTRANS 665018 18" CORRUGATED STEEL PIPE (.109" THICK) Note: Includes 0.64 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	81.38 1.27 0.80	
50 89 87 66-0015	LF	CALTRANS 665019 21" CORRUGATED STEEL PIPE (.064" THICK) Note: Includes 0.80 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	80.51 1.27 0.80	
50 89 87 66-0016	LF	CALTRANS 665020 21" CORRUGATED STEEL PIPE (.079" THICK) Note: Includes 0.80 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	85.68 1.27 0.80	
50 89 87 66-0017	LF	CALTRANS 665021 21" CORRUGATED STEEL PIPE (.109" THICK) Note: Includes 0.80 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	96.42 1.27 0.80	
50 89 87 66-0018	LF	CALTRANS 665022 24" CORRUGATED STEEL PIPE (.064" THICK) Note: Includes 0.89 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	88.97 1.27 0.80	

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50 89 87 66-0019 LF CALTRANS 665023 24" CORRUGATED STEEL PIPE (.079" THICK)	95.23	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0020 LF CALTRANS 665024 24" CORRUGATED STEEL PIPE (.109" THICK)	107.47	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0021 LF CALTRANS 665025 24" CORRUGATED STEEL PIPE (.138" THICK)	117.75	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0022 LF CALTRANS 665026 27" CORRUGATED STEEL PIPE (.064" THICK)	102.16	
Note: Includes 0.98 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0023 LF CALTRANS 665027 27" CORRUGATED STEEL PIPE (.079" THICK)	109.08	
Note: Includes 0.98 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0024 LF CALTRANS 665030 30" CORRUGATED STEEL PIPE (.064" THICK)	118.10	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0025 LF CALTRANS 665031 30" CORRUGATED STEEL PIPE (.079" THICK)	125.43	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0026 LF CALTRANS 665032 30" CORRUGATED STEEL PIPE (.109" THICK)	140.57	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0027 LF CALTRANS 665033 30" CORRUGATED STEEL PIPE (.138" THICK)	153.64	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0028 LF CALTRANS 665035 36" CORRUGATED STEEL PIPE (.064" THICK)	154.15	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0029 LF CALTRANS 665036 36" CORRUGATED STEEL PIPE (.079" THICK)	163.04	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0030 LF CALTRANS 665037 36" CORRUGATED STEEL PIPE (.109" THICK)	181.01	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0031 LF CALTRANS 665038 36" CORRUGATED STEEL PIPE (.138" THICK)	197.82	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0032 LF CALTRANS 665039 36" CORRUGATED STEEL PIPE (.168" THICK)	217.69	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0033 LF CALTRANS 665040 42" CORRUGATED STEEL PIPE (.064" THICK)	179.62	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0034 LF CALTRANS 665041 42" CORRUGATED STEEL PIPE (.079" THICK)	189.81	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0035 LF CALTRANS 665042 42" CORRUGATED STEEL PIPE (.109" THICK)	210.56	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0036 LF CALTRANS 665043 42" CORRUGATED STEEL PIPE (.138" THICK)	230.23	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0037 LF CALTRANS 665045 48" CORRUGATED STEEL PIPE (.064" THICK)	205.38	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0038 LF CALTRANS 665046 48" CORRUGATED STEEL PIPE (.079" THICK)	217.03	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0039 LF CALTRANS 665047 48" CORRUGATED STEEL PIPE (.109" THICK)	240.82	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	



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MINOR CSI UOM DESCRIPTION			TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 66-0040	LF	CALTRANS 665048 48" CORRUGATED STEEL PIPE (.138" THICK) Note: Includes 1.78 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	263.14 1.27 0.80	
50 89 87 66-0041	LF	CALTRANS 665049 48" CORRUGATED STEEL PIPE (.168" THICK) Note: Includes 1.78 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	289.45 1.27 0.80	
50 89 87 66-0042	LF	CALTRANS 665050 54" CORRUGATED STEEL PIPE (.079" THICK) Note: Includes 2.05 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	262.71 1.27 0.80	
50 89 87 66-0043	LF	CALTRANS 665051 54" CORRUGATED STEEL PIPE (.109" THICK) Note: Includes 2.05 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	288.97 1.27 0.80	
50 89 87 66-0044	LF	CALTRANS 665052 54" CORRUGATED STEEL PIPE (.138" THICK) Note: Includes 2.05 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	313.98 1.27 0.80	
50 89 87 66-0045	LF	CALTRANS 665053 54" CORRUGATED STEEL PIPE (.168" THICK) Note: Includes 2.05 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	345.13 1.27 0.80	
50 89 87 66-0046	LF	CALTRANS 665055 60" CORRUGATED STEEL PIPE (.109" THICK) Note: Includes 2.33 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	332.57 1.27 0.80	
50 89 87 66-0047	LF	CALTRANS 665056 60" CORRUGATED STEEL PIPE (.138" THICK) Note: Includes 2.33 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	360.41 1.27 0.80	
50 89 87 66-0048	LF	CALTRANS 665057 60" CORRUGATED STEEL PIPE (.168" THICK) Note: Includes 2.33 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	394.62 1.27 0.80	
50 89 87 66-0049	LF	CALTRANS 665058 66" CORRUGATED STEEL PIPE (.109" THICK) Note: Includes 2.64 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	397.36 1.27 0.80	
50 89 87 66-0050	LF	CALTRANS 665059 66" CORRUGATED STEEL PIPE (.138" THICK) Note: Includes 2.64 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	427.95 1.27 0.80	
50 89 87 66-0051	LF	CALTRANS 665061 72" CORRUGATED STEEL PIPE (.109" THICK) Note: Includes 2.96 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	530.15 1.27 0.80	
50 89 87 66-0052	LF	CALTRANS 665062 72" CORRUGATED STEEL PIPE (.138" THICK) Note: Includes 2.96 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	573.51 1.27 0.80	
50 89 87 66-0053	LF	CALTRANS 665064 78" CORRUGATED STEEL PIPE (.138" THICK) Note: Includes 3.31 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	620.95 1.27 0.80	
50 89 87 66-0054	LF	CALTRANS 665066 84" CORRUGATED STEEL PIPE (.138" THICK) Note: Includes 3.67 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	665.53 1.27 0.80	
50 89 87 66-0055	LF	CALTRANS 665067 84" CORRUGATED STEEL PIPE (.168" THICK) Note: Includes 3.67 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	730.69 1.27 0.80	
50 89 87 66-0056	LF	CALTRANS 665068 90" CORRUGATED STEEL PIPE (.138" THICK) Note: Includes 4.05 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	714.97 1.27 0.80	
50 89 87 66-0057	LF	CALTRANS 665070 96" CORRUGATED STEEL PIPE (.168" THICK) Note: Includes 4.44 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	761.59 1.27 0.80	
50 89 87 66-0058	LF	CALTRANS 665075 18" CORRUGATED STEEL PIPE (.138" THICK) Note: Includes 0.64 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	89.05 1.27 0.80	
50 89 87 66-0059	LF	CALTRANS 665094 18" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK) Note: Includes 0.64 CY of excavated material per LF of pipe. For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	96.27 1.27 0.80	
50 89 87 66-0060	LF	CALTRANS 665103 6" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK) For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	28.84 1.27 0.80	
50 89 87 66-0061	LF	CALTRANS 665105 8" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK) For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	36.52 1.27 0.80	



MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM DESCRIPTION	UNIT	COST	UNIT	COST
50 89 87 66-0062	LF CALTRANS 665106 8" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK).....		38.83		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27		
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80		
50 89 87 66-0063	LF CALTRANS 665108 10" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK).....		44.90		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27		
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80		
50 89 87 66-0064	LF CALTRANS 665109 10" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK).....		47.81		
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27		
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80		
50 89 87 66-0065	LF CALTRANS 665111 12" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK).....		50.21		
	Note: Includes 0.37 CY of excavated material per LF of pipe.				
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27		
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80		
50 89 87 66-0066	LF CALTRANS 665112 12" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK).....		53.21		
	Note: Includes 0.37 CY of excavated material per LF of pipe.				
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27		
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80		
50 89 87 66-0067	LF CALTRANS 665113 15" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK).....		62.51		
	Note: Includes 0.53 CY of excavated material per LF of pipe.				
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27		
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80		
50 89 87 66-0068	LF CALTRANS 665114 15" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK).....		66.26		
	Note: Includes 0.53 CY of excavated material per LF of pipe.				
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27		
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80		
50 89 87 66-0069	LF CALTRANS 665115 15" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK).....		75.43		
	Note: Includes 0.53 CY of excavated material per LF of pipe.				
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27		
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80		
50 89 87 66-0070	LF CALTRANS 665116 18" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK).....		72.80		
	Note: Includes 0.64 CY of excavated material per LF of pipe.				
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27		
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80		
50 89 87 66-0071	LF CALTRANS 665117 18" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK).....		77.32		
	Note: Includes 0.64 CY of excavated material per LF of pipe.				
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27		
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80		
50 89 87 66-0072	LF CALTRANS 665118 18" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK).....		87.31		
	Note: Includes 0.64 CY of excavated material per LF of pipe.				
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27		
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80		
50 89 87 66-0073	LF CALTRANS 665119 21" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK).....		86.64		
	Note: Includes 0.80 CY of excavated material per LF of pipe.				
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27		
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80		
50 89 87 66-0074	LF CALTRANS 665120 21" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK).....		91.83		
	Note: Includes 0.80 CY of excavated material per LF of pipe.				
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27		
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80		
50 89 87 66-0075	LF CALTRANS 665121 21" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK).....		103.43		
	Note: Includes 0.80 CY of excavated material per LF of pipe.				
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27		
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80		
50 89 87 66-0076	LF CALTRANS 665122 24" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK).....		91.06		
	Note: Includes 0.89 CY of excavated material per LF of pipe.				
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27		
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80		
50 89 87 66-0077	LF CALTRANS 665123 24" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK).....		102.19		
	Note: Includes 0.89 CY of excavated material per LF of pipe.				
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27		
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80		
50 89 87 66-0078	LF CALTRANS 665124 24" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK).....		115.41		
	Note: Includes 0.89 CY of excavated material per LF of pipe.				
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27		
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80		
50 89 87 66-0079	LF CALTRANS 665125 24" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK).....		127.43		
	Note: Includes 0.89 CY of excavated material per LF of pipe.				
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27		
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80		
50 89 87 66-0080	LF CALTRANS 665130 30" BITUMINOUS COATED CORRUGATED STEEL PIPE (.064" THICK).....		127.05		
	Note: Includes 1.08 CY of excavated material per LF of pipe.				
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27		
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80		
50 89 87 66-0081	LF CALTRANS 665131 30" BITUMINOUS COATED CORRUGATED STEEL PIPE (.079" THICK).....		134.38		
	Note: Includes 1.08 CY of excavated material per LF of pipe.				
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27		
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80		
50 89 87 66-0082	LF CALTRANS 665132 30" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK).....		150.67		
	Note: Includes 1.08 CY of excavated material per LF of pipe.				
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27		
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80		
50 89 87 66-0083	LF CALTRANS 665133 30" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK).....		165.94		
	Note: Includes 1.08 CY of excavated material per LF of pipe.				
	For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27		
	For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80		

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 66-0105 LF CALTRANS 665158 66" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK).....	423.79	
Note: Includes 2.64 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0106 LF CALTRANS 665159 66" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK).....	459.58	
Note: Includes 2.64 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0107 LF CALTRANS 665160 66" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK).....	508.88	
Note: Includes 2.64 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0108 LF CALTRANS 665161 72" BITUMINOUS COATED CORRUGATED STEEL PIPE (.109" THICK).....	573.40	
Note: Includes 2.96 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0109 LF CALTRANS 665162 72" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK).....	625.43	
Note: Includes 2.96 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0110 LF CALTRANS 665163 72" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK).....	685.14	
Note: Includes 2.96 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0111 LF CALTRANS 665164 78" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK).....	675.28	
Note: Includes 3.31 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0112 LF CALTRANS 665165 78" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK).....	740.21	
Note: Includes 3.31 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0113 LF CALTRANS 665166 84" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK).....	724.76	
Note: Includes 3.67 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0114 LF CALTRANS 665167 84" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK).....	802.95	
Note: Includes 3.67 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0115 LF CALTRANS 665168 90" BITUMINOUS COATED CORRUGATED STEEL PIPE (.138" THICK).....	777.85	
Note: Includes 4.05 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0116 LF CALTRANS 665180 24" BITUMINOUS COATED CORRUGATED STEEL PIPE (.168" THICK).....	145.00	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0117 LF CALTRANS 665223 24" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE (.079" THICK).....	111.37	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0118 LF CALTRANS 665224 24" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE (.109" THICK).....	121.82	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0119 LF CALTRANS 665237 36" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE (.109" THICK).....	203.57	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0120 LF CALTRANS 665323 24" BITUMINOUS LINED CORRUGATED STEEL PIPE (.079" THICK).....	102.19	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0121 LF CALTRANS 665334 30" BITUMINOUS LINED CORRUGATED STEEL PIPE (.168" THICK).....	188.29	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0122 LF CALTRANS 665336 36" BITUMINOUS LINED CORRUGATED STEEL PIPE (.079" THICK).....	174.26	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0123 LF CALTRANS 665711 12" SLOTTED CORRUGATED STEEL PIPE (.064" THICK).....	56.50	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0124 LF CALTRANS 665712 12" SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....	60.51	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0125 LF CALTRANS 665713 12" SLOTTED CORRUGATED STEEL PIPE (.109" THICK).....	73.00	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	



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MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
50 89 87 66-0126	LF	CALTRANS 665716 18" SLOTTED CORRUGATED STEEL PIPE (.064" THICK).....		100.60	
		Note: Includes 0.64 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80	
50 89 87 66-0127	LF	CALTRANS 665717 18" SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....		109.80	
		Note: Includes 0.64 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80	
50 89 87 66-0128	LF	CALTRANS 665718 18" SLOTTED CORRUGATED STEEL PIPE (.168" THICK).....		188.52	
		Note: Includes 0.64 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80	
50 89 87 66-0129	LF	CALTRANS 665722 24" SLOTTED CORRUGATED STEEL PIPE (.064" THICK).....		108.67	
		Note: Includes 0.89 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80	
50 89 87 66-0130	LF	CALTRANS 665723 24" SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....		116.82	
		Note: Includes 0.89 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80	
50 89 87 66-0131	LF	CALTRANS 665811 12" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.064" THICK).....		62.20	
		Note: Includes 0.37 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80	
50 89 87 66-0132	LF	CALTRANS 665812 12" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....		67.17	
		Note: Includes 0.37 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80	
50 89 87 66-0133	LF	CALTRANS 665816 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.064" THICK).....		113.69	
		Note: Includes 0.64 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80	
50 89 87 66-0134	LF	CALTRANS 665817 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....		125.10	
		Note: Includes 0.64 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80	
50 89 87 66-0135	LF	CALTRANS 665818 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.109" THICK).....		160.76	
		Note: Includes 0.64 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80	
50 89 87 66-0136	LF	CALTRANS 665820 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.138" THICK).....		188.69	
		Note: Includes 0.64 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80	
50 89 87 66-0137	LF	CALTRANS 665822 24" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.079" THICK).....		130.37	
		Note: Includes 0.89 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80	
50 89 87 66-0138	LF	CALTRANS 665828 18" BITUMINOUS COATED SLOTTED CORRUGATED STEEL PIPE (.168" THICK).....		222.87	
		Note: Includes 0.64 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80	
50 89 87 66-0139	LF	CALTRANS 667001 17" X 13" CORRUGATED STEEL PIPE ARCH (.079" THICK).....		64.36	
		Note: Includes 0.53 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80	
50 89 87 66-0140	LF	CALTRANS 667005 21" X 15" CORRUGATED STEEL PIPE ARCH (.079" THICK).....		78.47	
		Note: Includes 0.64 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80	
50 89 87 66-0141	LF	CALTRANS 667006 21" X 15" CORRUGATED STEEL PIPE ARCH (.109" THICK).....		87.64	
		Note: Includes 0.64 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80	
50 89 87 66-0142	LF	CALTRANS 667009 24" X 18" CORRUGATED STEEL PIPE ARCH (.079" THICK).....		92.60	
		Note: Includes 0.80 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80	
50 89 87 66-0143	LF	CALTRANS 667010 24" X 18" CORRUGATED STEEL PIPE ARCH (.109" THICK).....		103.42	
		Note: Includes 0.80 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80	
50 89 87 66-0144	LF	CALTRANS 667013 28" X 20" CORRUGATED STEEL PIPE ARCH (.079" THICK).....		97.25	
		Note: Includes 0.89 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80	
50 89 87 66-0145	LF	CALTRANS 667014 28" X 20" CORRUGATED STEEL PIPE ARCH (.109" THICK).....		115.69	
		Note: Includes 0.89 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80	
50 89 87 66-0146	LF	CALTRANS 667015 28" X 20" CORRUGATED STEEL PIPE ARCH (.138" THICK).....		126.41	
		Note: Includes 0.89 CY of excavated material per LF of pipe.			
		For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe		1.27	
		For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe		0.80	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 66-0147 LF CALTRANS 667018 35" X 24" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	135.77	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0148 LF CALTRANS 667019 35" X 24" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	150.87	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0149 LF CALTRANS 667020 35" X 24" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	164.37	
Note: Includes 1.08 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0150 LF CALTRANS 667023 42" X 29" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	166.43	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0151 LF CALTRANS 667024 42" X 29" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	184.29	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0152 LF CALTRANS 667025 42" X 29" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	201.10	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0153 LF CALTRANS 667028 49" X 33" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	194.62	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0154 LF CALTRANS 667029 49" X 33" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	215.24	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0155 LF CALTRANS 667030 49" X 33" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	234.84	
Note: Includes 1.53 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0156 LF CALTRANS 667033 57" X 38" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	232.95	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0157 LF CALTRANS 667034 57" X 38" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	251.25	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0158 LF CALTRANS 667035 57" X 38" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	273.47	
Note: Includes 1.78 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0159 LF CALTRANS 667037 64" X 43" CORRUGATED STEEL PIPE ARCH (.079" THICK).....	271.06	
Note: Includes 2.05 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0160 LF CALTRANS 667038 64" X 43" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	291.27	
Note: Includes 2.05 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0161 LF CALTRANS 667041 71" X 47" CORRUGATED STEEL PIPE ARCH (.109" THICK).....	337.69	
Note: Includes 2.33 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0162 LF CALTRANS 667042 71" X 47" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	362.99	
Note: Includes 2.33 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0163 LF CALTRANS 667048 83" X 57" CORRUGATED STEEL PIPE ARCH (.138" THICK).....	548.29	
Note: Includes 2.64 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0164 LF CALTRANS 667114 28" X 20" BITUMINOUS COATED CORRUGATED STEEL PIPE ARCH (.109" THICK).....	124.12	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0165 LF CALTRANS 667326 42" X 29" BITUMINOUS COATED CORRUGATED STEEL PIPE ARCH (.168" THICK).....	240.96	
Note: Includes 1.30 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0166 LF CALTRANS 669012 12" CORRUGATED STEEL PIPE CONDUIT (.079" THICK).....	49.80	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0167 LF CALTRANS 669016 18" CORRUGATED STEEL PIPE CONDUIT (.064" THICK).....	67.67	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0168 LF CALTRANS 669017 18" CORRUGATED STEEL PIPE CONDUIT (.079" THICK).....	72.14	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 66-0169 LF CALTRANS 669018 18" CORRUGATED STEEL PIPE CONDUIT (.109" THICK).....	81.38	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0170 LF CALTRANS 669055 8" BITUMINOUS COATED CORRUGATED STEEL PIPE CONDUIT (.064" THICK).....	36.52	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 66-0171 LF CALTRANS 669072 24" BITUMINOUS COATED CORRUGATED STEEL PIPE CONDUIT (.079" THICK).....	102.19	
Note: Includes 0.89 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 67 STRUCTURAL PLATE CULVERTS (50 89 87)		
Note: Includes structural metal plate pipe, arches and pipe arches, excavation, backfill, compaction, connection of new pipe to new or existing facilities, testing, and other connecting devices per CALTRAN Standard.		
50 89 87 67-0001 LF CALTRANS 670602 90" STRUCTURAL STEEL PLATE PIPE (.138" THICK)	903.49	
Note: Includes 4.05 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 67-0002 LF CALTRANS 670901 108" STRUCTURAL STEEL PLATE PIPE (.109" THICK)	986.75	
Note: Includes 5.30 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 67-0003 LF CALTRANS 671101 120" STRUCTURAL STEEL PLATE PIPE (.109" THICK)	1,093.18	
Note: Includes 6.22 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 67-0004 LF CALTRANS 674351 11'-10" X 7'-7" STRUCTURAL STEEL PLATE PIPE ARCH (.109" THICK)	1,258.11	
Note: Includes 0.32 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 68 SUBSURFACE DRAINS (50 89 87)		
Note: Includes subsurface drains, excavation, backfill and compaction per CALTRAN Standard.		
50 89 87 68-0001 LF CALTRANS 680402 6" PERFORATED STEEL PIPE UNDERDRAIN (.064" THICK)	30.82	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 68-0002 LF CALTRANS 680405 8" PERFORATED STEEL PIPE UNDERDRAIN (.064" THICK)	41.48	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 68-0003 LF CALTRANS 680406 8" PERFORATED STEEL PIPE UNDERDRAIN (.079" THICK)	45.44	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 68-0004 LF CALTRANS 680411 12" PERFORATED STEEL PIPE UNDERDRAIN (.064" THICK)	58.18	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 68-0005 LF CALTRANS 680412 12" PERFORATED STEEL PIPE UNDERDRAIN (.079" THICK)	63.37	
Note: Includes 0.37 CY of excavated material per LF of pipe.		
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 68-0006 LF CALTRANS 680436 8" BITUMINOUS COATED PERFORATED STEEL PIPE UNDERDRAIN (.079" THICK)	49.87	
For Bedding Material Below Pipe, Add Per CF Amount Required Per LF Of Pipe	1.27	
For Additional Excavation, Backfill And Compaction, Add Per CF Amount Required Per LF Of Pipe	0.80	
50 89 87 69 OVERSIDE DRAINS (50 89 87)		
Note: Includes constructing overside drains, excavation, backfill, compaction and anchors per CALTRAN Standard.		
50 89 87 69-0001 LF CALTRANS 690103 6" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	26.27	
50 89 87 69-0002 LF CALTRANS 690105 8" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....	32.92	
50 89 87 69-0003 LF CALTRANS 690106 8" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	35.22	
50 89 87 69-0004 LF CALTRANS 690107 10" CORRUGATED STEEL PIPE DOWNDRAIN	42.11	
50 89 87 69-0005 LF CALTRANS 690111 12" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....	45.09	
50 89 87 69-0006 LF CALTRANS 690112 12" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	48.09	
50 89 87 69-0007 LF CALTRANS 690114 15" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	59.66	
50 89 87 69-0008 LF CALTRANS 690115 15" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	67.28	
50 89 87 69-0009 LF CALTRANS 690116 18" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....	65.01	
50 89 87 69-0010 LF CALTRANS 690117 18" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	69.48	
50 89 87 69-0011 LF CALTRANS 690118 18" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	78.72	
50 89 87 69-0012 LF CALTRANS 690122 24" CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....	84.16	
50 89 87 69-0013 LF CALTRANS 690123 24" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	90.16	
50 89 87 69-0014 LF CALTRANS 690124 24" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	102.41	
50 89 87 69-0015 LF CALTRANS 690125 24" CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	112.69	
50 89 87 69-0016 LF CALTRANS 690131 30" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	119.74	
50 89 87 69-0017 LF CALTRANS 690132 30" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	134.89	
50 89 87 69-0018 LF CALTRANS 690134 30" CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	147.97	
50 89 87 69-0019 LF CALTRANS 690136 36" CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	156.67	
50 89 87 69-0020 LF CALTRANS 690137 36" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	174.64	
50 89 87 69-0021 LF CALTRANS 690138 36" CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	191.45	
50 89 87 69-0022 LF CALTRANS 690142 42" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	201.26	
50 89 87 69-0023 LF CALTRANS 690147 48" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	228.16	
50 89 87 69-0024 LF CALTRANS 690148 48" CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	250.48	
50 89 87 69-0025 LF CALTRANS 690150 54" CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	275.22	

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50 89 87 69-0026 LF CALTRANS 690205 8" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....	35.49	
50 89 87 69-0027 LF CALTRANS 690206 8" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	37.80	
50 89 87 69-0028 LF CALTRANS 690211 12" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....	48.49	
50 89 87 69-0029 LF CALTRANS 690212 12" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	51.50	
50 89 87 69-0030 LF CALTRANS 690216 18" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....	70.14	
50 89 87 69-0031 LF CALTRANS 690217 18" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	74.66	
50 89 87 69-0032 LF CALTRANS 690218 18" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	84.65	
50 89 87 69-0033 LF CALTRANS 690222 24" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....	91.06	
50 89 87 69-0034 LF CALTRANS 690223 24" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	97.13	
50 89 87 69-0035 LF CALTRANS 690224 24" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	110.35	
50 89 87 69-0036 LF CALTRANS 690225 24" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	122.36	
50 89 87 69-0037 LF CALTRANS 690231 30" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	128.69	
50 89 87 69-0038 LF CALTRANS 690232 30" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	144.99	
50 89 87 69-0039 LF CALTRANS 690235 36" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.064" THICK).....	159.06	
50 89 87 69-0040 LF CALTRANS 690237 36" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	187.13	
50 89 87 69-0041 LF CALTRANS 690238 36" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	207.34	
50 89 87 69-0042 LF CALTRANS 690242 42" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	215.90	
50 89 87 69-0043 LF CALTRANS 690247 48" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	244.69	
50 89 87 69-0044 LF CALTRANS 690253 30" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	160.27	
50 89 87 69-0045 LF CALTRANS 690260 12" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	64.43	
50 89 87 69-0046 LF CALTRANS 690263 18" BITUMINOUS COATED CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK).....	93.72	
50 89 87 69-0047 LF CALTRANS 690318 18" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	89.43	
50 89 87 69-0048 LF CALTRANS 690324 24" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	116.75	
50 89 87 69-0049 LF CALTRANS 690341 42" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE DOWNDRAIN (.079" THICK).....	193.71	
50 89 87 69-0050 LF CALTRANS 690351 54" BITUMINOUS COATED PAVED INVERT CORRUGATED STEEL PIPE DOWNDRAIN (.109" THICK).....	311.01	
50 89 87 69-0051 LF CALTRANS 690960 12" PLASTIC PIPE DOWNDRAIN.....	54.56	
50 89 87 69-0052 LF CALTRANS 690964 18" PLASTIC PIPE DOWNDRAIN.....	89.66	
50 89 87 69-0053 EA CALTRANS 692303 8" ANCHOR ASSEMBLY.....	609.46	
50 89 87 69-0054 EA CALTRANS 692305 12" ANCHOR ASSEMBLY.....	760.84	
50 89 87 69-0055 EA CALTRANS 692306 15" ANCHOR ASSEMBLY.....	853.29	
50 89 87 69-0056 EA CALTRANS 692307 18" ANCHOR ASSEMBLY.....	952.29	
50 89 87 69-0057 EA CALTRANS 692309 24" ANCHOR ASSEMBLY.....	1,169.78	
50 89 87 69-0058 EA CALTRANS 692311 30" ANCHOR ASSEMBLY.....	1,402.19	
50 89 87 69-0059 EA CALTRANS 692313 36" ANCHOR ASSEMBLY.....	1,634.82	
50 89 87 69-0060 EA CALTRANS 692319 54" ANCHOR ASSEMBLY.....	2,334.88	
50 89 87 70 MISCELLANEOUS DRAINAGE FACILITIES (50 89 87)		
50 89 87 70-0001 LF CALTRANS 700637 36" CORRUGATED STEEL PIPE INLET (.064" THICK).....	163.04	
50 89 87 70-0002 LF CALTRANS 700638 36" CORRUGATED STEEL PIPE INLET (.079" THICK).....	163.04	
50 89 87 70-0003 LF CALTRANS 700639 36" CORRUGATED STEEL PIPE INLET (.109" THICK).....	181.01	
50 89 87 70-0004 LF CALTRANS 700640 36" CORRUGATED STEEL PIPE INLET (.138" THICK).....	197.82	
50 89 87 70-0005 LF CALTRANS 700641 36" CORRUGATED STEEL PIPE INLET (.168" THICK).....	235.75	
50 89 87 70-0006 LF CALTRANS 700655 48" CORRUGATED STEEL PIPE INLET (.109" THICK).....	240.82	
50 89 87 70-0007 LF CALTRANS 700656 48" CORRUGATED STEEL PIPE INLET (.138" THICK).....	263.14	
50 89 87 70-0008 LF CALTRANS 700837 36" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.064" THICK).....	165.44	
50 89 87 70-0009 LF CALTRANS 700838 36" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.079" THICK).....	173.22	
50 89 87 70-0010 LF CALTRANS 700839 36" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.109" THICK).....	193.50	
50 89 87 70-0011 LF CALTRANS 700840 36" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.138" THICK).....	213.71	
50 89 87 70-0012 LF CALTRANS 700854 48" BITUMINOUS COATED CORRUGATED STEEL PIPE INLET (.079" THICK).....	257.35	
50 89 87 70-0013 LF CALTRANS 703516 8" WELDED STEEL PIPE (.188" THICK).....	111.17	30.74
For >1,000, Deduct	-5.56	
50 89 87 70-0014 LF CALTRANS 703525 10" WELDED STEEL PIPE (.250" THICK).....	153.30	33.54
For >1,000, Deduct	-7.67	
50 89 87 70-0015 LF CALTRANS 703533 12" WELDED STEEL PIPE (.250" THICK).....	173.45	35.13
For >1,000, Deduct	-8.67	
50 89 87 70-0016 LF CALTRANS 703555 18" WELDED STEEL PIPE (.250" THICK).....	245.94	46.11
For >1,000, Deduct	-12.30	
50 89 87 70-0017 LF CALTRANS 703557 18" WELDED STEEL PIPE (.375" THICK).....	325.27	81.69
For >1,000, Deduct	-16.26	
50 89 87 70-0018 LF CALTRANS 703564 20" WELDED STEEL PIPE (.375" THICK).....	355.31	81.69
For >1,000, Deduct	-17.77	
50 89 87 70-0019 LF CALTRANS 703576 24" WELDED STEEL PIPE (.375" THICK).....	450.22	94.25
For >1,000, Deduct	-22.51	
50 89 87 70-0020 LF CALTRANS 703600 30" WELDED STEEL PIPE (.375" THICK).....	523.10	109.96
For >1,000, Deduct	-26.16	
50 89 87 70-0021 LF CALTRANS 703620 36" WELDED STEEL PIPE (.375" THICK).....	694.80	131.95
For >1,000, Deduct	-34.74	
50 89 87 70-0022 LF CALTRANS 703646 42" WELDED STEEL PIPE (.375" THICK).....	1,175.22	147.66
For >1,000, Deduct	-58.76	
50 89 87 70-0023 LF CALTRANS 703656 48" WELDED STEEL PIPE (.375" THICK).....	1,349.30	166.51
For >1,000, Deduct	-67.47	
50 89 87 70-0024 EA CALTRANS 705007 12" STEEL FLARED END SECTION.....	388.83	66.54
50 89 87 70-0025 EA CALTRANS 705009 15" STEEL FLARED END SECTION.....	448.79	71.29
50 89 87 70-0026 EA CALTRANS 705011 18" STEEL FLARED END SECTION.....	535.17	76.04
50 89 87 70-0027 EA CALTRANS 705013 21" STEEL FLARED END SECTION.....	661.70	83.17
50 89 87 70-0028 EA CALTRANS 705015 24" STEEL FLARED END SECTION.....	859.24	90.31
50 89 87 70-0029 EA CALTRANS 705016 27" STEEL FLARED END SECTION.....	1,067.21	90.31



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 70-0030 EA CALTRANS 705019 30" STEEL FLARED END SECTION.....	1,279.95	102.18
50 89 87 70-0031 EA CALTRANS 705023 36" STEEL FLARED END SECTION.....	2,157.87	121.13
50 89 87 70-0032 EA CALTRANS 705027 42" STEEL FLARED END SECTION.....	2,756.24	141.32
50 89 87 70-0033 EA CALTRANS 705031 48" STEEL FLARED END SECTION.....	3,928.93	161.50
50 89 87 70-0034 EA CALTRANS 705035 54" STEEL FLARED END SECTION.....	4,366.01	201.88
50 89 87 70-0035 EA CALTRANS 705037 60" STEEL FLARED END SECTION.....	5,864.09	242.26
50 89 87 70-0036 EA CALTRANS 705039 66" STEEL FLARED END SECTION.....	6,643.42	363.39
50 89 87 70-0037 EA CALTRANS 705041 72" STEEL FLARED END SECTION.....	7,766.21	484.52
50 89 87 70-0038 EA CALTRANS 705057 12" BITUMINOUS COATED STEEL FLARED END SECTION.....	449.00	66.54
50 89 87 70-0039 EA CALTRANS 705059 15" BITUMINOUS COATED STEEL FLARED END SECTION.....	520.60	71.29
50 89 87 70-0040 EA CALTRANS 705061 18" BITUMINOUS COATED STEEL FLARED END SECTION.....	620.10	76.04
50 89 87 70-0041 EA CALTRANS 705063 21" BITUMINOUS COATED STEEL FLARED END SECTION.....	777.17	83.17
50 89 87 70-0042 EA CALTRANS 705065 24" BITUMINOUS COATED STEEL FLARED END SECTION.....	1,018.46	90.31
50 89 87 70-0043 EA CALTRANS 705067 27" BITUMINOUS COATED STEEL FLARED END SECTION.....	1,273.84	90.31
50 89 87 70-0044 EA CALTRANS 705069 30" BITUMINOUS COATED STEEL FLARED END SECTION.....	1,533.98	102.18
50 89 87 70-0045 EA CALTRANS 705073 36" BITUMINOUS COATED STEEL FLARED END SECTION.....	2,611.54	121.13
50 89 87 70-0046 EA CALTRANS 705077 42" BITUMINOUS COATED STEEL FLARED END SECTION.....	3,340.98	141.32
50 89 87 70-0047 EA CALTRANS 705081 48" BITUMINOUS COATED STEEL FLARED END SECTION.....	4,782.19	161.50
50 89 87 70-0048 EA CALTRANS 705084 54" BITUMINOUS COATED STEEL FLARED END SECTION.....	5,300.48	201.88
50 89 87 70-0049 EA CALTRANS 705201 12" CONCRETE FLARED END SECTION.....	762.92	117.60
50 89 87 70-0050 EA CALTRANS 705202 15" CONCRETE FLARED END SECTION.....	920.33	146.56
50 89 87 70-0051 EA CALTRANS 705204 18" CONCRETE FLARED END SECTION.....	1,118.17	185.53
50 89 87 70-0052 EA CALTRANS 705205 21" CONCRETE FLARED END SECTION.....	1,284.49	221.87
50 89 87 70-0053 EA CALTRANS 705206 24" CONCRETE FLARED END SECTION.....	1,562.78	256.80
50 89 87 70-0054 EA CALTRANS 705207 27" CONCRETE FLARED END SECTION.....	1,899.91	410.13
50 89 87 70-0055 EA CALTRANS 705208 30" CONCRETE FLARED END SECTION.....	2,000.95	564.67
50 89 87 70-0056 EA CALTRANS 705210 36" CONCRETE FLARED END SECTION.....	2,696.97	712.65
50 89 87 70-0057 EA CALTRANS 705212 42" CONCRETE FLARED END SECTION.....	3,249.85	894.14
50 89 87 70-0058 EA CALTRANS 705214 48" CONCRETE FLARED END SECTION.....	3,534.10	1,008.41
50 89 87 70-0059 EA CALTRANS 705216 54" CONCRETE FLARED END SECTION.....	3,965.12	1,129.44
50 89 87 70-0060 EA CALTRANS 705217 60" CONCRETE FLARED END SECTION.....	4,391.65	1,129.44
50 89 87 70-0061 EA CALTRANS 705403 21" X 15" STEEL FLARED END PIPE ARCH SECTION.....	563.99	76.04
50 89 87 70-0062 EA CALTRANS 705405 24" X 18" STEEL FLARED END PIPE ARCH SECTION.....	618.03	83.17
50 89 87 70-0063 EA CALTRANS 705407 28" X 20" STEEL FLARED END PIPE ARCH SECTION.....	666.79	90.31
50 89 87 70-0064 EA CALTRANS 705409 35" X 24" STEEL FLARED END PIPE ARCH SECTION.....	991.27	102.18
50 89 87 70-0065 EA CALTRANS 705411 42" X 29" STEEL FLARED END PIPE ARCH SECTION.....	1,865.19	121.13
50 89 87 70-0066 EA CALTRANS 705413 49" X 33" STEEL FLARED END PIPE ARCH SECTION.....	2,494.96	141.32
50 89 87 70-0067 EA CALTRANS 705415 57" X 38" STEEL FLARED END PIPE ARCH SECTION.....	3,827.19	161.50
50 89 87 70-0068 EA CALTRANS 705417 64" X 43" STEEL FLARED END PIPE ARCH SECTION.....	4,393.63	201.88
50 89 87 70-0069 EA CALTRANS 705419 71" X 47" STEEL FLARED END PIPE ARCH SECTION.....	5,303.09	242.26

50 89 87 71 EXISTING DRAINAGE FACILITIES (50 89 87)

Note: For work on culverts, inlets, headwalls, endwalls, aprons, drains, pipes, gutters, gutter depressions, junction structures, spillways, and check dams. Includes cleaning and preparing, inspecting and evaluating, repairing, rehabilitating, and reinspecting culverts, drain pipes, conduit, risers, downdrains, median drainage inlets, and underdrains per CALTRANS Standard.

50 89 87 71-0001 EA CALTRANS 710208 ADJUST FRAME AND COVER TO GRADE.....	412.01	
50 89 87 71-0002 LF CALTRANS 710360 CLEANING, INSPECTING, AND PREPARING CULVERT (LF).....	52.51	
For >250 To 500, Deduct	-2.34	
For >500 To 1,000, Deduct	-4.67	
For >1,000 To 2,000, Deduct	-7.01	
For >2,000 To 5,000, Deduct	-9.34	
For >5,000, Deduct	-11.68	
50 89 87 71-0003 CY CALTRANS 710368 CULVERT SLURRY-CEMENT BACKFILL.....	284.78	
50 89 87 71-0004 CY CALTRANS 710370 SAND BACKFILL.....	56.69	
For Up To 10, Add	15.28	
For >10 To 25, Add	5.67	
50 89 87 71-0005 LF CALTRANS 710372 8" CURED-IN-PLACE PIPELINER.....	79.09	
For >10 To 25, Add	57.91	
For >25 To 50, Add	37.85	
For >50 To 100, Add	18.93	
For >500 To 1,000, Deduct	-2.51	
For >1,000 To 2,000, Deduct	-4.60	
For >2,000 To 5,000, Deduct	-7.12	
For >5,000, Deduct	-11.30	
50 89 87 71-0006 LF CALTRANS 710374 10" CURED-IN-PLACE PIPELINER.....	111.79	
For >10 To 25, Add	69.44	
For >25 To 50, Add	46.33	
For >50 To 100, Add	23.17	
For >500 To 1,000, Deduct	-3.25	
For >1,000 To 2,000, Deduct	-6.04	
For >2,000 To 5,000, Deduct	-9.29	
For >5,000, Deduct	-14.87	
50 89 87 71-0007 LF CALTRANS 710376 12" CURED-IN-PLACE PIPELINER.....	133.04	
For >10 To 25, Add	79.03	
For >25 To 50, Add	53.05	
For >50 To 100, Add	26.53	
For >500 To 1,000, Deduct	-3.78	
For >1,000 To 2,000, Deduct	-7.05	
For >2,000 To 5,000, Deduct	-10.83	
For >5,000, Deduct	-17.37	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 71-0008 LF CALTRANS 710378 15" CURED-IN-PLACE PIPELINER	210.50	
For>10 To 25, Add	104.49	
For>25 To 50, Add	72.07	
For>50 To 100, Add	36.03	
For>500 To 1,000, Deduct	-5.48	
For>1,000 To 2,000, Deduct	-10.38	
For>2,000 To 5,000, Deduct	-15.86	
For>5,000, Deduct	-25.66	
50 89 87 71-0009 LF CALTRANS 710380 18" CURED-IN-PLACE PIPELINER	252.19	
For>10 To 25, Add	121.62	
For>25 To 50, Add	84.28	
For>50 To 100, Add	42.14	
For>500 To 1,000, Deduct	-6.48	
For>1,000 To 2,000, Deduct	-12.30	
For>2,000 To 5,000, Deduct	-18.78	
For>5,000, Deduct	-30.43	
50 89 87 71-0010 LF CALTRANS 710382 21" CURED-IN-PLACE PIPELINER	325.33	
For>10 To 25, Add	144.78	
For>25 To 50, Add	101.73	
For>50 To 100, Add	50.86	
For>500 To 1,000, Deduct	-8.06	
For>1,000 To 2,000, Deduct	-15.41	
For>2,000 To 5,000, Deduct	-23.47	
For>5,000, Deduct	-38.17	
50 89 87 71-0011 LF CALTRANS 710384 24" CURED-IN-PLACE PIPELINER	408.35	
For>10 To 25, Add	171.34	
For>25 To 50, Add	121.68	
For>50 To 100, Add	60.84	
For>500 To 1,000, Deduct	-9.86	
For>1,000 To 2,000, Deduct	-18.95	
For>2,000 To 5,000, Deduct	-28.81	
For>5,000, Deduct	-46.99	
50 89 87 71-0012 LF CALTRANS 710386 27" CURED-IN-PLACE PIPELINER	544.53	
For>10 To 25, Add	216.37	
For>25 To 50, Add	155.26	
For>50 To 100, Add	77.63	
For>500 To 1,000, Deduct	-12.85	
For>1,000 To 2,000, Deduct	-24.81	
For>2,000 To 5,000, Deduct	-37.66	
For>5,000, Deduct	-61.59	
50 89 87 71-0013 LF CALTRANS 710388 30" CURED-IN-PLACE PIPELINER	606.51	
For>10 To 25, Add	240.71	
For>25 To 50, Add	172.77	
For>50 To 100, Add	86.38	
For>500 To 1,000, Deduct	-14.31	
For>1,000 To 2,000, Deduct	-27.63	
For>2,000 To 5,000, Deduct	-41.93	
For>5,000, Deduct	-68.57	
50 89 87 71-0014 LF CALTRANS 710390 36" CURED-IN-PLACE PIPELINER	727.53	
For>10 To 25, Add	281.94	
For>25 To 50, Add	203.32	
For>50 To 100, Add	101.66	
For>500 To 1,000, Deduct	-17.00	
For>1,000 To 2,000, Deduct	-32.88	
For>2,000 To 5,000, Deduct	-49.88	
For>5,000, Deduct	-81.65	
50 89 87 71-0015 LF CALTRANS 710392 42" CURED-IN-PLACE PIPELINER	850.03	
For>10 To 25, Add	326.90	
For>25 To 50, Add	236.10	
For>50 To 100, Add	118.05	
For>500 To 1,000, Deduct	-19.80	
For>1,000 To 2,000, Deduct	-38.32	
For>2,000 To 5,000, Deduct	-58.12	
For>5,000, Deduct	-95.17	
50 89 87 71-0016 LF CALTRANS 710394 48" CURED-IN-PLACE PIPELINER	974.70	
For>10 To 25, Add	377.30	
For>25 To 50, Add	272.15	
For>50 To 100, Add	136.07	
For>500 To 1,000, Deduct	-22.76	
For>1,000 To 2,000, Deduct	-44.04	
For>2,000 To 5,000, Deduct	-66.80	
For>5,000, Deduct	-109.35	
50 89 87 71-0017 LF CALTRANS 710396 54" CURED-IN-PLACE PIPELINER	1,275.39	
For>10 To 25, Add	486.95	
For>25 To 50, Add	352.20	
For>50 To 100, Add	176.10	
For>500 To 1,000, Deduct	-29.62	
For>1,000 To 2,000, Deduct	-57.37	
For>2,000 To 5,000, Deduct	-86.98	
For>5,000, Deduct	-142.48	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 71-0018	LF		CALTRANS 710398 60" CURED-IN-PLACE PIPELINER	1,625.96	
			For >10 To 25, Add	635.90	
			For >25 To 50, Add	457.74	
			For >50 To 100, Add	228.87	
			For >500 To 1,000, Deduct	-38.13	
			For >1,000 To 2,000, Deduct	-73.71	
			For >2,000 To 5,000, Deduct	-111.83	
			For >5,000, Deduct	-182.99	
50 89 87 71-0019	LF		CALTRANS 710400 18" DEFORMED/RE-FORMED HDPE PIPELINER	231.46	
			For >500 To 1,000, Deduct	-1.56	
			For >1,000 To 2,000, Deduct	-3.13	
			For >2,000, Deduct	-6.26	
50 89 87 71-0020	LF		CALTRANS 710402 21" DEFORMED/RE-FORMED HDPE PIPELINER	261.81	
			For >500 To 1,000, Deduct	-1.69	
			For >1,000 To 2,000, Deduct	-3.39	
			For >2,000, Deduct	-6.78	
50 89 87 71-0021	LF		CALTRANS 710404 24" DEFORMED/RE-FORMED HDPE PIPELINER	319.40	
			For >500 To 1,000, Deduct	-1.85	
			For >1,000 To 2,000, Deduct	-3.70	
			For >2,000, Deduct	-7.40	
50 89 87 71-0022	LF		CALTRANS 710434 12" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	29.69	
50 89 87 71-0023	LF		CALTRANS 710436 15" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	44.71	
50 89 87 71-0024	LF		CALTRANS 710438 18" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	60.26	
50 89 87 71-0025	LF		CALTRANS 710440 21" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	74.80	
50 89 87 71-0026	LF		CALTRANS 710442 24" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	98.21	
50 89 87 71-0027	LF		CALTRANS 710444 27" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	117.93	
50 89 87 71-0028	LF		CALTRANS 710446 30" MACHINE SPIRAL WOUND PVC PIPELINER (EXPANDABLE DIAMETER)	135.05	
50 89 87 71-0029	LF		CALTRANS 710448 12" CEMENTITIOUS PIPELINER	85.78	
50 89 87 71-0030	LF		CALTRANS 710450 15" CEMENTITIOUS PIPELINER	97.70	
50 89 87 71-0031	LF		CALTRANS 710452 18" CEMENTITIOUS PIPELINER	104.70	
50 89 87 71-0032	LF		CALTRANS 710454 21" CEMENTITIOUS PIPELINER	112.80	
50 89 87 71-0033	LF		CALTRANS 710456 24" CEMENTITIOUS PIPELINER	120.70	
50 89 87 71-0034	LF		CALTRANS 710458 27" CEMENTITIOUS PIPELINER	127.26	
50 89 87 71-0035	LF		CALTRANS 710460 30" CEMENTITIOUS PIPELINER	133.60	
50 89 87 71-0036	LF		CALTRANS 710462 36" CEMENTITIOUS PIPELINER	126.75	
50 89 87 71-0037	LF		CALTRANS 710478 36" WELDED STEEL PIPELINER	692.99	
50 89 87 71-0038	LF		CALTRANS 710480 42" WELDED STEEL PIPELINER	799.69	
50 89 87 71-0039	LF		CALTRANS 710482 48" WELDED STEEL PIPELINER	909.32	
50 89 87 71-0040	LF		CALTRANS 710484 54" WELDED STEEL PIPELINER	1,109.38	
50 89 87 71-0041	LF		CALTRANS 710486 60" WELDED STEEL PIPELINER	1,200.37	
50 89 87 71-0042	LF		CALTRANS 710488 66" WELDED STEEL PIPELINER	1,311.32	
50 89 87 71-0043	LF		CALTRANS 710490 72" WELDED STEEL PIPELINER	1,565.45	
50 89 87 71-0044	LF		CALTRANS 710491 78" WELDED STEEL PIPELINER	1,652.05	
50 89 87 71-0045	LF		CALTRANS 710492 84" WELDED STEEL PIPELINER	1,749.23	
50 89 87 71-0046	LF		CALTRANS 710494 MACHINE SPIRAL WOUND PVC LINER (GROUTED, ARCH, 42" X 29")	263.13	
50 89 87 71-0047	LF		CALTRANS 710496 MACHINE SPIRAL WOUND PVC LINER (GROUTED, ARCH, 49" X 33")	326.85	
50 89 87 71-0048	LF		CALTRANS 710498 MACHINE SPIRAL WOUND PVC LINER (GROUTED, ARCH, 57" X 38")	403.67	
50 89 87 71-0049	LF		CALTRANS 710500 MACHINE SPIRAL WOUND PVC LINER (GROUTED, ARCH, 64" X 43")	483.82	
50 89 87 71-0050	LF		CALTRANS 710522 83" X 57" WELDED STEEL PIPELINER (ARCH)	1,752.15	
50 89 87 71-0051	LF		CALTRANS 710524 HDPE PLASTIC PIPELINER (16" OD SDR 32.5)	54.82	
50 89 87 71-0052	LF		CALTRANS 710526 HDPE PLASTIC PIPELINER (18" OD SDR 32.5)	68.91	
50 89 87 71-0053	LF		CALTRANS 710528 HDPE PLASTIC PIPELINER (20" OD SDR 32.5)	84.48	
50 89 87 71-0054	LF		CALTRANS 710530 HDPE PLASTIC PIPELINER (22" OD SDR 32.5)	97.41	
50 89 87 71-0055	LF		CALTRANS 710532 HDPE PLASTIC PIPELINER (24" OD SDR 32.5)	111.44	
50 89 87 71-0056	LF		CALTRANS 710534 HDPE PLASTIC PIPELINER (26" OD SDR 32.5)	127.15	
50 89 87 71-0057	LF		CALTRANS 710536 HDPE PLASTIC PIPELINER (28" OD SDR 32.5)	143.39	
50 89 87 71-0058	LF		CALTRANS 710538 HDPE PLASTIC PIPELINER (30" OD SDR 32.5)	165.96	
50 89 87 71-0059	LF		CALTRANS 710540 HDPE PLASTIC PIPELINER (32" OD SDR 32.5)	189.64	
50 89 87 71-0060	LF		CALTRANS 710542 HDPE PLASTIC PIPELINER (34" OD SDR 32.5)	209.54	
50 89 87 71-0061	LF		CALTRANS 710544 HDPE PLASTIC PIPELINER (36" OD SDR 32.5)	229.46	
50 89 87 71-0062	LF		CALTRANS 710546 HDPE PLASTIC PIPELINER (39.5" OD SDR 32.5)	262.13	
50 89 87 71-0063	LF		CALTRANS 710548 HDPE PLASTIC PIPELINER (42" OD SDR 32.5)	294.79	
50 89 87 71-0064	LF		CALTRANS 710550 HDPE PLASTIC PIPELINER (48" OD SDR 32.5)	378.74	
50 89 87 71-0065	LF		CALTRANS 710552 HDPE PLASTIC PIPELINER (54" OD SDR 32.5)	461.60	
50 89 87 71-0066	LF		CALTRANS 710554 HDPE PLASTIC PIPELINER (55.3" OD SDR 32.5)	487.45	
50 89 87 71-0067	LF		CALTRANS 710556 HDPE PLASTIC PIPELINER (63.2" OD SDR 32.5)	610.63	
50 89 87 71-0068	LF		CALTRANS 710558 HDPE PLASTIC PIPELINER (16" OD SDR 26)	65.25	
50 89 87 71-0069	LF		CALTRANS 710660 HDPE PLASTIC PIPELINER (18" OD SDR 26)	82.03	
50 89 87 71-0070	LF		CALTRANS 710662 HDPE PLASTIC PIPELINER (20" OD SDR 26)	100.86	
50 89 87 71-0071	LF		CALTRANS 710664 HDPE PLASTIC PIPELINER (22" OD SDR 26)	116.40	
50 89 87 71-0072	LF		CALTRANS 710666 HDPE PLASTIC PIPELINER (24" OD SDR 26)	133.31	
50 89 87 71-0073	LF		CALTRANS 710668 HDPE PLASTIC PIPELINER (26" OD SDR 26)	152.29	
50 89 87 71-0074	LF		CALTRANS 710670 HDPE PLASTIC PIPELINER (28" OD SDR 26)	171.95	
50 89 87 71-0075	LF		CALTRANS 710672 HDPE PLASTIC PIPELINER (30" OD SDR 26)	199.44	
50 89 87 71-0076	LF		CALTRANS 710674 HDPE PLASTIC PIPELINER (32" OD SDR 26)	228.32	
50 89 87 71-0077	LF		CALTRANS 710666 HDPE PLASTIC PIPELINER (34" OD SDR 26)	252.52	
50 89 87 71-0078	LF		CALTRANS 710768 HDPE PLASTIC PIPELINER (36" OD SDR 26)	276.72	
50 89 87 71-0079	LF		CALTRANS 710770 HDPE PLASTIC PIPELINER (39.5" OD SDR 26)	316.74	
50 89 87 71-0080	LF		CALTRANS 710772 HDPE PLASTIC PIPELINER (42" OD SDR 26)	356.76	
50 89 87 71-0081	LF		CALTRANS 710774 HDPE PLASTIC PIPELINER (48" OD SDR 26)	460.37	
50 89 87 71-0082	LF		CALTRANS 710776 HDPE PLASTIC PIPELINER (54" OD SDR 26)	562.63	
50 89 87 71-0083	LF		CALTRANS 710778 HDPE PLASTIC PIPELINER (55.3" OD SDR 26)	594.19	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 87 71-0084 LF CALTRANS 710780 HDPE PLASTIC PIPELINER (63.2" OD SDR 26).....	745.96	
50 89 87 71-0085 LF CALTRANS 710882 HDPE PLASTIC PIPELINER (16" OD SDR 21).....	78.72	
50 89 87 71-0086 LF CALTRANS 710884 HDPE PLASTIC PIPELINER (18" OD SDR 21).....	98.98	
50 89 87 71-0087 LF CALTRANS 710886 HDPE PLASTIC PIPELINER (20" OD SDR 21).....	122.00	
50 89 87 71-0088 LF CALTRANS 710888 HDPE PLASTIC PIPELINER (22" OD SDR 21).....	140.93	
50 89 87 71-0089 LF CALTRANS 710890 HDPE PLASTIC PIPELINER (24" OD SDR 21).....	161.55	
50 89 87 71-0090 LF CALTRANS 710891 HDPE PLASTIC PIPELINER (26" OD SDR 21).....	184.77	
50 89 87 71-0091 LF CALTRANS 710892 HDPE PLASTIC PIPELINER (28" OD SDR 21).....	208.83	
50 89 87 71-0092 LF CALTRANS 710893 HDPE PLASTIC PIPELINER (30" OD SDR 21).....	242.70	
50 89 87 71-0093 LF CALTRANS 710894 HDPE PLASTIC PIPELINER (32" OD SDR 21).....	278.28	
50 89 87 71-0094 LF CALTRANS 710895 HDPE PLASTIC PIPELINER (34" OD SDR 21).....	308.02	
50 89 87 71-0095 LF CALTRANS 710896 HDPE PLASTIC PIPELINER (36" OD SDR 21).....	337.77	
50 89 87 71-0096 LF CALTRANS 710897 HDPE PLASTIC PIPELINER (39.5" OD SDR 21).....	387.28	
50 89 87 71-0097 LF CALTRANS 710898 HDPE PLASTIC PIPELINER (42" OD SDR 21).....	436.80	
50 89 87 71-0098 LF CALTRANS 710899 HDPE PLASTIC PIPELINER (48" OD SDR 21).....	565.80	
50 89 87 71-0099 LF CALTRANS 710900 HDPE PLASTIC PIPELINER (54" OD SDR 21).....	693.12	
50 89 87 71-0100 LF CALTRANS 710902 HDPE PLASTIC PIPELINER (55.3" OD SDR 21).....	732.06	
50 89 87 71-0101 LF CALTRANS 710904 HDPE PLASTIC PIPELINER (63.2" OD SDR 21).....	920.75	

50 89 88 CALTRANS DIVISION VIII - MISCELLANEOUS CONSTRUCTION (50 89 80)**50 89 88 73 CONCRETE CURBS AND SIDEWALKS (50 89 88)**

50 89 88 73-0001 LF CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 6" x 18".....	28.82	
For Up To 20, Add	16.82	
For >20 To 50, Add	9.52	
For >50 To 100, Add	3.65	
For >500 To 1,000, Deduct	-3.65	
For >1,000, Deduct	-6.20	
50 89 88 73-0002 LF CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 6" x 24".....	33.34	
For Up To 20, Add	18.83	
For >20 To 50, Add	10.63	
For >50 To 100, Add	4.10	
For >500 To 1,000, Deduct	-4.10	
For >1,000, Deduct	-6.98	
50 89 88 73-0003 LF CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 8" x 18".....	30.82	
For Up To 20, Add	17.30	
For >20 To 50, Add	9.76	
For >50 To 100, Add	3.77	
For >500 To 1,000, Deduct	-3.77	
For >1,000, Deduct	-6.42	
50 89 88 73-0004 LF CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 8" x 24".....	36.12	
For Up To 20, Add	19.39	
For >20 To 50, Add	10.91	
For >50 To 100, Add	4.24	
For >500 To 1,000, Deduct	-4.24	
For >1,000, Deduct	-7.26	
50 89 88 73-0005 LF CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 8" x 36".....	50.52	
For Up To 20, Add	26.52	
For >20 To 50, Add	14.90	
For >50 To 100, Add	5.81	
For >500 To 1,000, Deduct	-5.81	
For >1,000, Deduct	-9.98	
50 89 88 73-0006 LF CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 12" x 24".....	44.71	
For Up To 20, Add	22.63	
For >20 To 50, Add	12.68	
For >50 To 100, Add	4.97	
For >500 To 1,000, Deduct	-4.97	
For >1,000, Deduct	-8.58	
50 89 88 73-0007 LF CALTRANS 730010 MINOR CONCRETE (CURB) (LF), 12" x 36".....	63.32	
For Up To 20, Add	31.32	
For >20 To 50, Add	17.53	
For >50 To 100, Add	6.90	
For >500 To 1,000, Deduct	-6.90	
For >1,000, Deduct	-11.93	
50 89 88 73-0008 LF CALTRANS 730040 MINOR CONCRETE (GUTTER) (LF) 6" x 18".....	37.83	
For Up To 20, Add	25.52	
For >20 To 50, Add	14.17	
For >50 To 100, Add	5.67	
For >500 To 1,000, Deduct	-4.71	
For >1,000, Deduct	-8.02	
50 89 88 73-0009 LF CALTRANS 730040 MINOR CONCRETE (GUTTER) (LF) 6" x 24".....	45.97	
For Up To 20, Add	30.99	
For >20 To 50, Add	17.20	
For >50 To 100, Add	6.90	
For >500 To 1,000, Deduct	-5.71	
For >1,000, Deduct	-9.71	
50 89 88 73-0010 LF CALTRANS 730040 MINOR CONCRETE (GUTTER) (LF) 6" x 30".....	60.01	
For Up To 20, Add	40.48	
For >20 To 50, Add	22.48	
For >50 To 100, Add	9.00	
For >500 To 1,000, Deduct	-7.47	
For >1,000, Deduct	-12.71	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 88 73-0011 LF CALTRANS 730040 MINOR CONCRETE (GUTTER) (LF) 6" x 36"	63.34	
For Up To 20, Add	42.69	
For >20 To 50, Add	23.69	
For >50 To 100, Add	9.50	
For >500 To 1,000, Deduct	-7.85	
For >1,000, Deduct	-13.36	
50 89 88 73-0012 SF CALTRANS 730070 DETECTABLE WARNING SURFACE	55.71	
50 89 88 73-0013 CY CALTRANS 731502 MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)	258.09	
For Up To 20, Add	13.24	
For >20 To 50, Add	4.96	
For >100 To 200, Deduct	-5.16	
For >200 To 400, Deduct	-10.32	
For >400, Deduct	-15.49	
50 89 88 73-0014 SF CALTRANS 731525 MINOR CONCRETE (SIDEWALK) (SF) 4"	10.33	
For Up To 100, Add	4.31	
For >100 To 500, Add	1.21	
For >1,000 To 5,000, Deduct	-0.69	
For >5,000, Deduct	-1.55	
50 89 88 73-0015 SF CALTRANS 731525 MINOR CONCRETE (SIDEWALK) (SF) 6"	12.36	
For Up To 100, Add	4.94	
For >100 To 500, Add	1.36	
For >1,000 To 5,000, Deduct	-0.74	
For >5,000, Deduct	-1.73	
50 89 88 73-0016 LF CALTRANS 731700 REMOVE CURB	12.07	
50 89 88 73-0017 LF CALTRANS 731710 REMOVE CONCRETE CURB (LF)	18.25	
For Up To 20, Add	12.78	
For >20 To 50, Add	7.30	
For >50 To 100, Add	2.74	
For >500 To 1,000, Deduct	-2.74	
For >1,000, Deduct	-4.56	
50 89 88 73-0018 SY CALTRANS 731780 REMOVE CONCRETE SIDEWALK (SQYD)	111.39	
For Up To 100, Add	44.51	
For >100 To 500, Add	12.23	
For >1,000 To 5,000, Deduct	-6.66	
For >5,000, Deduct	-15.56	
50 89 88 73-0019 LF CALTRANS 731840 REMOVE CONCRETE (CURB AND GUTTER)	29.53	
For Up To 20, Add	20.67	
For >20 To 50, Add	11.61	
For >50 To 100, Add	4.43	
For >500 To 1,000, Deduct	-4.43	
For >1,000, Deduct	-7.38	
50 89 88 78 INCIDENTAL CONSTRUCTION (50 89 88)		
50 89 88 78-0001 EA CALTRANS 780210 SURVEY MONUMENT (TYPE A)	570.85	
50 89 88 78-0002 EA CALTRANS 780250 ADJUST MONUMENT COVER TO GRADE	219.19	
50 89 88 78-0003 SF CALTRANS 780433 PAINT CURB (2-COAT)	5.46	
50 89 88 78-0004 SF CALTRANS 780460 ANTI-GRAFFITI COATING	1.72	
For Up To 100, Add	1.00	
For >100 To 250, Add	0.48	
For >250 To 500, Add	0.21	
50 89 88 78-0005 EA CALTRANS 780500 PARKING BUMPER (PRECAST CONCRETE)	93.74	21.48
50 89 88 80 FENCES (50 89 88)		
Note: Includes constructing fences and gates, excavation, concrete footing, posts, bracing, tension wire, hardware and grounding material per CALTRANS Standard.		
50 89 88 80-0001 LF CALTRANS 800004 FENCE (TYPE BW, 5-STRAND, WOOD POST)	13.14	
50 89 88 80-0002 LF CALTRANS 800006 FENCE (TYPE BW, 6-STRAND, WOOD POST)	13.91	
50 89 88 80-0003 LF CALTRANS 800007 FENCE (TYPE BW, 5-STRAND, METAL POST)	15.25	
50 89 88 80-0004 LF CALTRANS 800008 FENCE (TYPE BW, 4-STRAND, METAL POST)	14.13	
50 89 88 80-0005 LF CALTRANS 800010 FENCE (TYPE BW, 4-STRAND, WOOD POST)	12.38	
50 89 88 80-0006 LF CALTRANS 800016 FENCE (TYPE BW, 6-STRAND, METAL POST)	16.04	
50 89 88 80-0007 LF CALTRANS 800103 TEMPORARY FENCE (TEMPORARY FENCE (TYPE CL-6))	7.56	
50 89 88 80-0008 LF CALTRANS 800302 CHAIN LINK FENCE (TYPE CL-3, VINYL-CLAD)	42.31	
For Up To 100, Add	8.01	
For >100 To 250, Add	2.95	
For >2,500 To 5,000, Deduct	-1.47	
For >5,000, Deduct	-2.95	
50 89 88 80-0009 LF CALTRANS 800310 CHAIN LINK FENCE (TYPE CL-3.5)	41.01	
For Up To 100, Add	7.79	
For >100 To 250, Add	2.87	
For >2,500 To 5,000, Deduct	-1.44	
For >5,000, Deduct	-2.87	
50 89 88 80-0010 LF CALTRANS 800320 CHAIN LINK FENCE (TYPE CL-4)	42.37	
For Up To 100, Add	8.02	
For >100 To 250, Add	2.95	
For >2,500 To 5,000, Deduct	-1.48	
For >5,000, Deduct	-2.95	
50 89 88 80-0011 LF CALTRANS 800321 CHAIN LINK FENCE (TYPE CL-4, VINYL-CLAD)	43.86	
For Up To 100, Add	8.25	
For >100 To 250, Add	3.03	
For >2,500 To 5,000, Deduct	-1.51	
For >5,000, Deduct	-3.03	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 88 80-0012 LF CALTRANS 800340 CHAIN LINK FENCE (TYPE CL-5).....	45.55	
For Up To 100, Add	8.55	
For >100 To 250, Add	3.14	
For >2,500 To 5,000, Deduct	-1.57	
For >5,000, Deduct	-3.14	
50 89 88 80-0013 LF CALTRANS 800341 CHAIN LINK FENCE (TYPE CL-5, VINYL-CLAD).....	47.43	
For Up To 100, Add	8.84	
For >100 To 250, Add	3.23	
For >2,500 To 5,000, Deduct	-1.62	
For >5,000, Deduct	-3.23	
50 89 88 80-0014 LF CALTRANS 800360 CHAIN LINK FENCE (TYPE CL-6).....	49.33	
For Up To 100, Add	9.23	
For >100 To 250, Add	3.38	
For >2,500 To 5,000, Deduct	-1.69	
For >5,000, Deduct	-3.38	
50 89 88 80-0015 LF CALTRANS 800361 CHAIN LINK FENCE (TYPE CL-6, VINYL-CLAD).....	53.15	
For Up To 100, Add	9.80	
For >100 To 250, Add	3.57	
For >2,500 To 5,000, Deduct	-1.79	
For >5,000, Deduct	-3.57	
50 89 88 80-0016 LF CALTRANS 800363 CHAIN LINK FENCE (TYPE CL-6, EXTENSION ARM).....	50.20	
For Up To 100, Add	9.36	
For >100 To 250, Add	3.43	
For >2,500 To 5,000, Deduct	-1.71	
For >5,000, Deduct	-3.43	
50 89 88 80-0017 LF CALTRANS 800365 CHAIN LINK FENCE (TYPE CL-6, SLATTED).....	108.31	
For Up To 100, Add	18.54	
For >100 To 250, Add	6.56	
For >2,500 To 5,000, Deduct	-3.28	
For >5,000, Deduct	-6.56	
50 89 88 80-0018 LF CALTRANS 800400 CHAIN LINK FENCE (TYPE CL-8).....	58.05	
For Up To 100, Add	10.73	
For >100 To 250, Add	3.92	
For >2,500 To 5,000, Deduct	-1.96	
For >5,000, Deduct	-3.92	
50 89 88 80-0019 EA CALTRANS 802100 4' CHAIN LINK GATE (TYPE CL-4).....	438.56	
50 89 88 80-0020 EA CALTRANS 802110 5' CHAIN LINK GATE (TYPE CL-4).....	519.13	
50 89 88 80-0021 EA CALTRANS 802120 6' CHAIN LINK GATE (TYPE CL-4).....	610.51	
50 89 88 80-0022 EA CALTRANS 802180 12' CHAIN LINK GATE (TYPE CL-4).....	1,482.08	
50 89 88 80-0023 EA CALTRANS 802340 8' CHAIN LINK GATE (TYPE CL-5).....	926.69	
50 89 88 80-0024 EA CALTRANS 802400 14' CHAIN LINK GATE (TYPE CL-5).....	2,097.61	
50 89 88 80-0025 EA CALTRANS 802420 16' CHAIN LINK GATE (TYPE CL-5).....	2,417.73	
50 89 88 80-0026 EA CALTRANS 802440 18' CHAIN LINK GATE (TYPE CL-5).....	2,702.20	
50 89 88 80-0027 EA CALTRANS 802500 3' CHAIN LINK GATE (TYPE CL-6).....	446.85	
50 89 88 80-0028 EA CALTRANS 802501 4' CHAIN LINK GATE (TYPE CL-6).....	567.02	
50 89 88 80-0029 EA CALTRANS 802502 4' CHAIN LINK GATE (TYPE CL-6, VINYL-CLAD).....	281.03	
50 89 88 80-0030 EA CALTRANS 802503 4' CHAIN LINK GATE (TYPE CL-6, EXTENSION ARM).....	575.54	
50 89 88 80-0031 EA CALTRANS 802504 4' CHAIN LINK GATE (TYPE CL-6, SLATTED).....	603.28	
50 89 88 80-0032 EA CALTRANS 802510 5' CHAIN LINK GATE (TYPE CL-6).....	664.13	
50 89 88 80-0033 EA CALTRANS 802520 6' CHAIN LINK GATE (TYPE CL-6).....	771.11	
50 89 88 80-0034 EA CALTRANS 802540 8' CHAIN LINK GATE (TYPE CL-6).....	989.88	
50 89 88 80-0035 EA CALTRANS 802543 8' CHAIN LINK GATE (TYPE CL-6, EXTENSION ARM).....	999.40	
50 89 88 80-0036 EA CALTRANS 802550 9' CHAIN LINK GATE (TYPE CL-6).....	1,097.56	
50 89 88 80-0037 EA CALTRANS 802560 10' CHAIN LINK GATE (TYPE CL-6).....	1,628.54	
50 89 88 80-0038 EA CALTRANS 802580 12' CHAIN LINK GATE (TYPE CL-6).....	1,932.04	
50 89 88 80-0039 EA CALTRANS 802601 14' CHAIN LINK GATE (TYPE CL-6).....	2,290.96	
50 89 88 80-0040 EA CALTRANS 802620 16' CHAIN LINK GATE (TYPE CL-6).....	2,599.47	
50 89 88 80-0041 EA CALTRANS 802640 18' CHAIN LINK GATE (TYPE CL-6).....	2,916.68	
50 89 88 80-0042 EA CALTRANS 802660 20' CHAIN LINK GATE (TYPE CL-6).....	3,238.15	
50 89 88 80-0043 EA CALTRANS 802670 24' CHAIN LINK GATE (TYPE CL-6).....	3,891.58	
50 89 88 80-0044 EA CALTRANS 802840 18' CHAIN LINK GATE (TYPE CL-7).....	3,077.93	
50 89 88 80-0045 LF CALTRANS 802900 CHAIN LINK FENCE (TYPE CL-8, EXTENSION ARM).....	58.93	
For Up To 100, Add	10.86	
For >100 To 250, Add	3.96	
For >2,500 To 5,000, Deduct	-1.98	
For >5,000, Deduct	-3.96	
50 89 88 80-0046 EA CALTRANS 802901 4' CHAIN LINK GATE (TYPE CL-8).....	700.56	
50 89 88 80-0047 EA CALTRANS 802902 4' CHAIN LINK GATE (TYPE CL-8, EXTENSION ARM).....	709.08	
50 89 88 80-0048 EA CALTRANS 802920 6' CHAIN LINK GATE (TYPE CL-8).....	938.26	
50 89 88 80-0049 EA CALTRANS 802941 8' CHAIN LINK GATE (TYPE CL-8, EXTENSION ARM).....	1,210.05	
50 89 88 80-0050 EA CALTRANS 803010 14' CHAIN LINK GATE (TYPE CL-10, VINYL_CLAD).....	1,560.25	
50 89 88 80-0051 LF CALTRANS 803050 REMOVE CHAIN LINK FENCE.....	6.19	
For Up To 100, Add	1.55	
For >100 To 250, Add	0.62	
For >2,500 To 5,000, Deduct	-0.31	
For >5,000, Deduct	-0.62	
50 89 88 80-0052 EA CALTRANS 803060 REMOVE GATE.....	281.43	
50 89 88 80-0053 EA CALTRANS 803160 RESET GATE.....	1,372.59	
50 89 88 80-0054 LF CALTRANS 803180 RELOCATE CHAIN LINK FENCE.....	29.44	

50 89 89 CALTRANS DIVISION IX - TRAFFIC CONTROL DEVICES (50 89 80)**50 89 89 81 MISCELLANEOUS TRAFFIC CONTROL DEVICES (50 89 89)**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 89 81-0001 EA CALTRANS 810120 REMOVE PAVEMENT MARKER For >100, Deduct	2.46 -0.25	
50 89 89 81-0002 EA CALTRANS 810220 PAVEMENT MARKER (NON-REFLECTIVE) For >100, Deduct	5.33 -0.53	2.46
50 89 89 81-0003 EA CALTRANS 810230 PAVEMENT MARKER (RETROREFLECTIVE) For >100, Deduct	6.09 -0.61	2.46
50 89 89 81-0004 EA CALTRANS 810250 PAVEMENT MARKER (RETROREFLECTIVE-RECESSED) For >100, Deduct	71.65 -0.61	30.39
50 89 89 82 SIGNS AND MARKERS (50 89 89)		
50 89 89 82-0001 EA CALTRANS 820110 MILEPOST MARKER	190.33	
50 89 89 82-0002 SF CALTRANS 820750 FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"-UNFRAMED)	19.27	36.46
50 89 89 82-0003 SF CALTRANS 820760 FURNISH SINGLE SHEET ALUMINUM SIGN (0.080"-UNFRAMED)	19.95	23.59
50 89 89 83 RAILINGS AND BARRIERS (50 89 89)		
50 89 89 83-0001 LF CALTRANS 832006 MIDWEST GUARDRAIL SYSTEM (STEEL POST)	47.22	10.31
50 89 89 83-0002 LF CALTRANS 832007 MIDWEST GUARDRAIL SYSTEM (WOOD POST)	96.81	15.88
50 89 89 83-0003 LF CALTRANS 839303 SINGLE THRIE BEAM BARRIER (STEEL POST)	71.15	2.68
50 89 89 83-0004 LF CALTRANS 839752 REMOVE GUARDRAIL	10.31	
50 89 89 84 MARKINGS (50 89 89)		
50 89 89 84-0001 LF CALTRANS 840505 6" THERMOPLASTIC TRAFFIC STRIPE For Up To 5,000 LF, Add	1.97 0.39	
50 89 89 84-0002 LF CALTRANS 840506 8" THERMOPLASTIC TRAFFIC STRIPE For Up To 5,000 LF, Add	2.61 0.52	
50 89 89 84-0003 LF CALTRANS 840507 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 8-4) For Up To 5,000 LF, Add	1.17 0.23	
50 89 89 84-0004 LF CALTRANS 840508 8" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 12-3) For Up To 5,000 LF, Add	1.01 0.20	
50 89 89 84-0005 SF CALTRANS 840515 THERMOPLASTIC PAVEMENT MARKING	9.10	
50 89 89 84-0006 SF CALTRANS 840519 THERMOPLASTIC CROSSWALK AND PAVEMENT MARKING	9.10	
50 89 89 84-0007 LF CALTRANS 840522 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 6-1) For Up To 5,000 LF, Add	0.66 0.13	
50 89 89 84-0008 LF CALTRANS 840528 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 12-3) For Up To 5,000 LF, Add	0.77 0.15	
50 89 89 84-0009 LF CALTRANS 840529 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12) For Up To 5,000 LF, Add	0.90 0.18	
50 89 89 84-0010 LF CALTRANS 840530 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 17-7) For Up To 5,000 LF, Add	1.03 0.21	
50 89 89 84-0011 LF CALTRANS 840531 6" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 18-12) For Up To 5,000 LF, Add	1.44 0.29	
50 89 89 84-0012 LF CALTRANS 840550 8" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12) For Up To 5,000 LF, Add	1.19 0.24	
50 89 89 84-0013 LF CALTRANS 840583 6" TWO-COMPONENT PAINT TRAFFIC STRIPE For Up To 5,000 LF, Add	0.84 0.17	
50 89 89 84-0014 LF CALTRANS 840584 8" TWO-COMPONENT PAINT TRAFFIC STRIPE For Up To 5,000 LF, Add	1.02 0.20	
50 89 89 84-0015 LF CALTRANS 840610 8" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 12-3) For Up To 5,000 LF, Add	0.54 0.11	
50 89 89 84-0016 LF CALTRANS 840612 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 6-1) For Up To 5,000 LF, Add	0.48 0.10	
50 89 89 84-0017 LF CALTRANS 840614 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 12-3) For Up To 5,000 LF, Add	0.56 0.11	
50 89 89 84-0018 LF CALTRANS 840616 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 36-12) For Up To 5,000 LF, Add	0.43 0.09	
50 89 89 84-0019 LF CALTRANS 840618 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 17-7) For Up To 5,000 LF, Add	0.56 0.11	
50 89 89 84-0020 LF CALTRANS 840620 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 18-12) For Up To 5,000 LF, Add	0.65 0.13	
50 89 89 84-0021 LF CALTRANS 840622 6" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 8-4) For Up To 5,000 LF, Add	0.56 0.11	
	-0.08	

50 Custom Standards And Assemblies**50 89 CALTRANS Custom Standards And Assemblies****50 89 80 CALTRANS Construction Performance Requirements**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
50 89 89 84-0022 LF CALTRANS 840624 8" TWO-COMPONENT PAINT TRAFFIC STRIPE (BROKEN 36-12).....	0.68	
For Up To 5,000 LF, Add	0.14	
For >25,000 LF, Deduct	-0.10	
50 89 89 84-0023 SF CALTRANS 840637 TWO-COMPONENT PAINT PAVEMENT MARKING	7.86	
50 89 89 84-0024 SF CALTRANS 840651 PAINTED STALL LINES AND PAVEMENT MARKINGS.....	6.16	
50 89 89 84-0025 LF CALTRANS 840655 PAINT TRAFFIC STRIPE (1-COAT) - 4" Wide	0.31	
For Up To 5,000 LF, Add	0.06	
For >25,000 LF, Deduct	-0.05	
50 89 89 84-0026 LF CALTRANS 840655 PAINT TRAFFIC STRIPE (1-COAT) - 6" Wide	0.41	
For Up To 5,000 LF, Add	0.08	
For >25,000 LF, Deduct	-0.06	
50 89 89 84-0027 LF CALTRANS 840655 PAINT TRAFFIC STRIPE (1-COAT) - 8" Wide	0.51	
For Up To 5,000 LF, Add	0.10	
For >25,000 LF, Deduct	-0.08	
50 89 89 84-0028 LF CALTRANS 840656 PAINT TRAFFIC STRIPE (2-COAT) - 4" Wide	0.61	
For Up To 5,000 LF, Add	0.12	
For >25,000 LF, Deduct	-0.09	
50 89 89 84-0029 LF CALTRANS 840656 PAINT TRAFFIC STRIPE (2-COAT) - 6" Wide	0.78	
For Up To 5,000 LF, Add	0.16	
For >25,000 LF, Deduct	-0.12	
50 89 89 84-0030 LF CALTRANS 840656 PAINT TRAFFIC STRIPE (2-COAT) - 8" Wide	1.01	
For Up To 5,000 LF, Add	0.20	
For >25,000 LF, Deduct	-0.15	
50 89 89 84-0031 SF CALTRANS 840665 PAINT PAVEMENT MARKING (1-COAT)	6.14	
50 89 89 84-0032 SF CALTRANS 840666 PAINT PAVEMENT MARKING (2-COAT)	9.33	
50 89 89 84-0033 LF CALTRANS 846020 REMOVE PAINTED TRAFFIC STRIPE.....	2.14	
For Up To 250, Add	1.07	
For >250 To 1,000, Add	0.54	
For >5,000 To 10,000, Deduct	-0.32	
For >10,000 To 25,000, Deduct	-0.54	
For >25,000 To 50,000, Deduct	-0.75	
For >50,000, Deduct	-0.86	
50 89 89 84-0034 SF CALTRANS 846025 REMOVE PAINTED PAVEMENT MARKING	3.68	
For Up To 250, Add	1.84	
For >250 To 1,000, Add	0.92	
For >5,000 To 10,000, Deduct	-0.55	
For >10,000 To 25,000, Deduct	-0.92	
For >25,000 To 50,000, Deduct	-1.29	
For >50,000, Deduct	-1.47	
50 89 89 84-0035 LF CALTRANS 846030 REMOVE THERMOPLASTIC TRAFFIC STRIPE	3.23	
For Up To 250, Add	1.62	
For >250 To 1,000, Add	0.81	
For >5,000 To 10,000, Deduct	-0.48	
For >10,000 To 25,000, Deduct	-0.81	
For >25,000 To 50,000, Deduct	-1.13	
For >50,000, Deduct	-1.29	
50 89 89 84-0036 SF CALTRANS 846035 REMOVE THERMOPLASTIC PAVEMENT MARKING.....	4.68	
For Up To 250, Add	2.34	
For >250 To 1,000, Add	1.17	
For >5,000 To 10,000, Deduct	-0.70	
For >10,000 To 25,000, Deduct	-1.17	
For >25,000 To 50,000, Deduct	-1.64	
For >50,000, Deduct	-1.87	

END OF SECTION 50

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